

This information was updated on November 30, 2020. SHIMANO makes no warranty with respect to this information, including without limitation any warranty on the accuracy of measures, specifications and compatibility of the current products. Regarding any modification and new product information after November 30, 2020, please refer to the SHIMANO Business Customer Web Site or directly contact the sales person of our company.



2020-2021 SPEC. HANDBOOK

- MTB
- **TREKKING**
- GRAVEL/ADVENTURE
- ROAD
- **■** URBAN
- **■** GENERAL
- DI2 Spec
- **■** E-BIKE

REMARKS Mark  $\checkmark$ : available / Mark -: not available

All information in this spec. handbook is confidential
and has been given to you for the sole use of your product development staff.

This information should not be photo copied.

Specifications are subject to change without prior notice.

Visit SHIMANO PRODUCT WEBSITE for the latest information.

## **Word definitions**

ВВ	Bottom bracket	HP	Head parts
ВС	Brake cable	HRB	Hub roller brake
ВСС	Charger cord	I-SPEC	Integration mounting system of brake
BCR	Battery charger	I-SPEC	and shifting lever
ВН	Disc brake hose	ID	CI-DECK
BL	Brake lever	JC	Junction
вм	Battery mount	LP	Light
BR	Brake caliper	MF	Multiple freewheel
втс	Battery case	MU	Motor unit
ВТН	Battery holder	O.L.D.	Over Locknut Dimension
BTR	Battery	ОТ	Outer casing
СВ	Coaster brake	P.C.D.	Pitch Circle Diameter
CD	Chain device	PCE	PC Linkage device
CG	Chain guard	PD	Pedal
CJ	Cassette joint	PM	POWER MODULATOR
CN	Chain	QR	Quick release
СР	Spoke protector	RD	Rear derailleur
CR	Chainring	RT	Disc brake rotor
CS	Cassette sprocket	RTAD	Disc brake rotor adapter
СТ	Chain tensioner	SB	REVOSHIFT shifter integrated with
DH	Hub dynamo		brake lever
DU	Drive unit	SC	Cycle computer
EC	Battery charger		System information display
EW	Electric wire	SF	Single freewheel
EWC	Cord cover	SG	Internal geared hub
	DI2 adapter	SL	Shifting lever
EWW	Wireless unit	SPD	SHIMANO PEDALING DYNAMICS
FC	Crankset Crank arm	SPD-SL	SHIMANO PEDALING DYNAMICS-SL
FD	Front derailleur	ST	DUAL CONTROL LEVER / shifting lever integrated with brake lever
FH	FREEHUB	SW	Switch unit
GM	Grommet	WH	Wheel
НВ	Front hub		



## **MTB**

#### Page **Shifting Lever** 2 SL **Seat Post Lever** 18 **SLMT Shifting Lever** (Integration Unit) 18 Brake Lever (Hydraulic Disc Brake) 19 **Brake Lever** 22 Shifting/Brake Lever (Hydraulic Disc Brake) 23 Shifting/Brake Lever 24 **Rear Derailleur** 27 Front Derailleur 34 FD **Brake** (Hydraulic Disc Brake) 49 Brake (Mechanical Disc Brake) 54 Brake (V-BRAKE) 54 Crankset 55 **Chain Device** 66 **SMCD** Chainring 67 **SMCR** Bottom Bracket (HOLLOWTECH II) 69 **Bottom Bracket 70 Cassette Sprocket** 72 CS **Multiple Freewheel** 76 Front Hub (Disc Brake) 77 Front Hub (Rim Brake) 82 FREEHUB (Disc Brake) 83 FREEHUB (Rim Brake) 90 Wheel (Disc Brake) 91 WH **CI-DECK** 99 CI-DECK



Ser	ies	XTR	XTR	XTR	XTR	XTR	XTR
Mode	el no.	SL-M9100-R	SL-M9100-IR	SL-M9100-L	SL-M9100-IL	SL-M9000-R	SL-M9000-L
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front s	peeds	-	-	2	2	-	2/3
Rear s	peeds	12	12	-	-	11	-
Compatible rear	derailleur type	12-speed	12-speed	-	-	MTB 11-speed	-
Compatible with I-S	PEC EV Brake Lever	1	✓	✓	1	✓	✓
	Clamp band	1	-	✓	-	✓	✓
	I-SPEC B	-	-	-	-	-	-
Mount type	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	✓	-	1	-	-
Shifting lever p	oosition adjust	-	(14 mm slide adjust range)	-	(14 mm slide adjust range)		-
Shifting lever rotatio	n adjust (Non I-SPEC /)	-	-	-	-		-
Shifting lever	cable adjust	<b>✓</b>	✓	1	1	<b>V</b>	✓
Initial lever po	osition adjust	-	-	1	1	-	-
Front 2/3 mo	de converter	-	-	-		-	-
Max. multiple shift	s (Main lever/rear)	4	4	-	-	4	-
	MULTI RELEASE	✓	✓		-	<b>√</b> *	-
	INSTANT RELEASE	✓	✓	1	1	✓	✓
Release function	2-WAY RELEASE	✓	1	1	1	✓	✓
	Adjustable Mono Lever	-	·	1	1	-	-
	with	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	1	1	1	1	✓	✓
Multi-Bearing	construction	4	4	4	4	4	4
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
bracket	Finish	Anodized	Painted	Anodized	Painted	Anodized	Anodized
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
ciamp son	Finish		-	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	CFRP	CFRP
,	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material	CFRP	CFRP	-	-	CFRP	CFRP
	Finish	-	-	-	-	-	-
Base cover	Material	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
	Fin <mark>ish</mark>	Painted	Painted	Painted	Painted	Painted	Painted
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
_	Finish	Polymer-coated	Polymer-coated	Polymer-coated	Polymer-coated	Polymer-coated	Polymer-coated
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average v	veight (g)	117 ( /pc)	112 ( /pc)	79 ( /pc)	74 ( /pc)	200 ( /pair)	200 ( /pair)
No	te	w/Rubber grooved grip (main/release lever)	w/Rubber grooved grip (main/release lever)	w/Rubber grooved grip (main lever)	w/Rubber grooved grip (main lever)	* Pull: single, push: double	

### МТВ

SLMT

SMSL

SMCD

SIVICR

ВВ

ВВ

MF

НВ

НВ

FH

WH

CI-DECK

BL

Ser	ies	XTR	XTR	SAINT	SAINT	SHIMANO DEORE XT	SHIMANO DEORE XT
Mode	el no.	SL-M980-B-IR	SL-M980-B-IL	SL-M820	SL-M820-B-I	SL-M8100-R	SL-M8100-IR
Callan	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front	speeds	-	2/3	-	-	-	-
Rear s	peeds	10	-	10	10	12	12
Compatible rear	derailleur type	MTB 10-speed	-	MTB 10-speed	MTB 10-speed	12-speed	12-speed
Compatible with I-S	PEC EV Brake Lever	-	-	1	-	1	1
	Clamp band	-	-	1	-	1	-
	I-SPEC B	1	1	-	<b>√</b> **	-	-
Mount type	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	1
Shifting lever p	position adjust	4	4	-			(14 mm slide adjust range)
Shifting lever rotation	n adjust (Non I-SPEC /)	✓	✓	-	1		-
Shifting lever	cable adjust	✓ (CFRP)	✓ (CFRP)	✓ (CFRP)	✓ (CFRP)	1	1
Initial lever p	osition adjust	-	-	-,		-	-
Front 2/3 mo	de converter	-	✓	-		-	-
Max. multiple shifts (Main lever/rear)		4	-	4	4	4	4
	MULTI RELEASE	✓	-	<b>√</b> *	<b>√</b> *	1	1
	INSTANT RELEASE	✓	✓	1	1	1	1
Release function	2-WAY RELEASE	<b>4</b>		1	1	1	1
	Adjustable Mono Lever	-	-	-	-	-	-
	with	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	1	1	1	1	1	1
Multi-Bearing	construction	4	4	4	4	2	2
Shifting lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Shifting lever bracket	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
	Material	-	-	Stainless steel	-	Stainless steel	Stainless steel
Clamp bolt	Finish	Y.	-	Black	-	Black	Black
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Main lever body	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
	Material	CFRP & Steel	CFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
Release lever body	Finish	-	-	-	-	-	-
Dage server	Material	CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
Base cover	Fin <mark>ish</mark>	Painted	Painted	Painted	Painted	Painted	Painted
Chifting laws L1	Mater <mark>ial</mark>	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Shifting lever cable	Finish	SIL-TEC	SIL-TEC	-	-	OPTISLICK	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average v	veight (g)	103 ( /pc)	98 ( /pc)	123 ( /pc)	114 ( /pc)	117 ( /pc)	120 ( /pc)
No	rte			* Pull: single, push: double	* Pull: single, push: double ** I-spec B-type	w/Rubber grooved grip (main lever)	w/Rubber grooved grip (main lever)

Ser	ies	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT
Mode	el no.	SL-M8100-L	SL-M8100-IL	SL-M8000-R	SL-M8000-L	SL-M8000-IR	SL-M8000-IL
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front s	speeds	2	2	-	2/3	-	2/3
Rear s	peeds	-	-	11	-	11	-
Compatible rear	derailleur type	-	-	MTB 11-speed	-	MTB 11-speed	-
Compatible with I-S	PEC EV Brake Lever	1	1	1	1	-	-
	Clamp band	1	-	✓	1	-	-
	I-SPEC B	-	-	-	-	-	-
Mount type	I-SPEC II	-	-	-	-	1	✓
	I-SPEC EV	-	1	-	-		-
Shifting lever p	position adjust	-	(14 mm slide adjust range)	-	-	4	1
Shifting lever rotatio	n adjust (Non I-SPEC /)	-	-	-	-	1	1
Shifting lever	cable adjust	✓	✓	1	1	•	✓
Initial lever po	osition adjust	✓	✓			-	-
Front 2/3 mo	Front 2/3 mode converter		-			-	-
Max. multiple shift	Max. multiple shifts (Main lever/rear)		-	4	-	4	-
	MULTI RELEASE	-	-	<b>\</b> *	-	<b>√</b> *	-
	INSTANT RELEASE	✓	<b>1</b>	1	<b>y</b>	✓	✓
Release function	2-WAY RELEASE	✓	1	1	1	✓	✓
	Adjustable Mono Lever	1	1	-	-	-	-
	with	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with (removable)	-	-	<b>y</b>	1	-	-
	without	1	1	1	1	✓	✓
Multi-Bearing	construction	2	2	2	2	2	2
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
bracket	Finish	Painte <mark>d</mark>	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-	-
cidinp boil	Finish	Black	Black	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Main level body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
2022 20701	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Finish		OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifting	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average v	veight (g)	78 ( /pc)	78 ( /pc)	127 ( /pc)	117 ( /pc)	120 ( /pc)	110 (/pc)
No	te	w/Rubber grooved grip (main lever)	w/Rubber grooved grip (main lever)	* Pull: single, push: double		* Pull: single, push: double	

SLMT

SIVISL

BL

SMCD

SIVICR

ВВ

ВВ

MF

НВ

НВ

FH

WH

CI-DECK

Ser	ies	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT
Mode	el no.	SL-M8000-B-IR	SL-M780-B-IR	SL-M780-B-IL	SL-M780-R	SL-M780-L	SL-M770-A-R
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front s	peeds	-	-	2/3	-	2/3	-
Rear s	peeds	11	10	-	10	-	9
Compatible rear	derailleur type	MTB 11-speed	MTB 10-speed	=	MTB 10-speed	-	MTB 9-speed
Compatible with I-S	PEC EV Brake Lever	-	-	-	1	1	✓
	Clamp band	-	-	-	1	1	✓
Mount tune	I-SPEC B	✓	1	<b>~</b>	-	-	-
Mount type	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever p	oosition adjust	1	1	1		-	-
Shifting lever rotatio E\	n adjust (Non I-SPEC /)	✓	1	✓	-	-	-
Shifting lever	cable adjust	✓	1	✓	7	1	✓
Initial lever po	osition adjust	-	-	-	-		-
Front 2/3 mode converter		-	-	1		1	-
Max. multiple shift	s (Main lever/rear)	4	4	-	4	-	4
	MULTI RELEASE	<b>√</b> *	1	-	1	-	-
	INSTANT RELEASE	<b>~</b>	1	4	4	1	✓
Release function	2-WAY RELEASE	<b>√</b>	1	>	1	1	1
	Adjustable Mono Lever	-	-	•	-	-	-
	with	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	1	1	1
	without	1	1	1	✓	1	✓
Multi-Bearing	construction	2	2	2	2	2	2
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
bračket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-		-	Stainless steel	Stainless steel	Stainless steel
Clamp boil	Finish		-	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
a.ii icvei bouy	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish		-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	Resin
Dasc cover	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Finish		OPTISLICK	-	-	-	-	-
Recommended shifting	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average v	veight (g)	117 ( /pc)	114 ( /pc)	106 ( /pc)	128 ( /pc)	121 ( /pc)	255 ( /pair)
No	te	* Pull: single, push: double					

Ser	ries	SHIMANO DEORE XT	SLX	SLX	SLX	SLX	SLX
Mode	el no.	SL-M770-A-L	SL-M7100-R	SL-M7100-IR	SL-M7100-L	SL-M7100-IL	SL-M7000-11-R
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS
Front	speeds	3	-	-	2	2	-
Rear s	speeds	-	12	12	-	-	11
Compatible rea	r derailleur type	-	12-speed	12-speed	-	-	MTB 11-speed
Compatible with I-S	SPEC EV Brake Lever	1	1	1	1	1	1
	Clamp band	1	✓	-	1	-	1
	I-SPEC B	-	-	-	-	-	-
Mount type	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	1	-	_	-
Shifting lever	position adjust	-	-	(14 mm slide adjust range)	-	(14 mm slide adjust range)	-
Shifting lever rotation	on adjust (Non I-SPEC V)	-	-	-			-
Shifting leve	r cable adjust	1	✓	1	1	1	1
Initial lever p	osition adjust	-	-			1	-
Front 2/3 mo	ode converter	-	-	-		-	-
Max. multiple shift	ts (Main lever/rear)	-	3	3	-	-	3
	MULTI RELEASE	-	-		-	-	-
	INSTANT RELEASE	1	-	-	<b>y</b>	1	-
Release function	2-WAY RELEASE	1	1	1	1	1	1
	Adjustable Mono Lever	-		-	1	1	-
	with	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with (removable)	1	-	-	-	-	1
	without	1	1	1	1	1	1
Multi-Bearing	construction	2	-	-	-	-	-
Shifting lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Shifting lever bracket	Finish	Painte <mark>d</mark>	Painted	Painted	Painted	Painted	Painted
Clause half	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Clamp bolt	Finish		-	-	-	-	-
	Material	Aluminum	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
Main lever body	Finish	Painted	-	-	-	-	-
Deleges lever by d	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
Release lever body	Finish	-	-	-	-	-	-
Dana server	Material	Resin	GFRP	GFRP	GFRP	GFRP	GFRP
Base cover	Fin <mark>ish</mark>	Painted	-	-	-	-	-
Chiffein a laws 11	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Shifting lever cable	Finish	-	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average v	weight (g)	255 ( /pair)	117 ( /pc)	117 ( /pc)	77 ( /pc)	77 ( /pc)	135 ( /pc)
No	ote						

### MTB

SLMT

SMSL

SMCD

SIVICR

ВВ

ВВ

MF

НВ

НВ

FH

WH

CI-DECK

BL

Series		SLX	SLX	SLX	SLX	SLX	SLX
Mode	el no.	SL-M7000-L	SL-M7000-11-IR	SL-M7000-IL	SL-M7000-11-B-IR	SL-M7000-B-IL	SL-M7000-10-R
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifter	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front s	peeds	2/3	-	2/3	-	2/3	-
Rear sp	peeds	-	11	-	11	-	10
Compatible rear	derailleur type	-	MTB 11-speed	-	MTB 11-speed	-	MTB 10-speed
Compatible with I-S	PEC EV Brake Lever	✓	-	-	-	-	1
	Clamp band	✓	-	-	-	-	✓
Mount type	I-SPEC B	-	-	-	✓	1	-
Mount type	I-SPEC II	-	✓	✓	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever p	oosition adjust	-	✓	✓	<b>,</b>	1	-
Shifting lever rotation EV	n adjust (Non I-SPEC /)	-	<b>~</b>	<b>~</b>	1	1	-
Shifting lever	cable adjust	✓	1	✓	~	1	1
Initial lever po	osition adjust	-	-	-	-	-	-
Front 2/3 mod	de converter	=	-	-	·	-	-
Max. multiple shifts	s (Main lever/rear)	-	3	-	3	-	3
	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
Release function	2-WAY RELEASE	<b>√</b>	✓	1	1	1	1
	Adjustable Mono Lever	-			-	-	-
	with	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with (removable)	1	Ċ	-	-	-	✓
	without	1	1	1	✓	1	1
Multi-Bearing	construction	-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel		-	-	-	Stainless steel
Claimp Boil	Finish	-	-	-	-	-	-
Main lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish		-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifting	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average w	veight (g)	130 ( /pc)	120 ( /pc)	115 ( /pc)	127 ( /pc)	120 ( /pc)	135 ( /pc)
Note							

Ser	ies	SLX	SLX	SLX	SLX	ZEE	SHIMANO DEORE
Mode	el no.	SL-M7000-10-IR	SL-M7000-10-B-IR	SL-M670-B-IR	SL-M670-B-IL	SL-M640	SL-M6100-R
Callan	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front s	speeds	-	-	-	2/3	-	-
Rear s	peeds	10	10	10	-	10	12
Compatible rea	derailleur type	MTB 10-speed	MTB 10-speed	MTB 10-speed	-	MTB 10-speed	MTB 12-speed
Compatible with I-S	PEC EV Brake Lever	-	-	-	-	1	✓
	Clamp band	-	-	-	-	✓	✓
Marint trins	I-SPEC B	-	<b>√</b>	1	✓	-	-
Mount type	I-SPEC II	4	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever	oosition adjust	✓	1	1	<b>✓</b>	-	-
Shifting lever rotation	n adjust (Non I-SPEC /)	1	1	1	1	-	-
Shifting leve	cable adjust	<b>~</b>	<b>✓</b>	1	7	1	✓
Initial lever p	osition adjust	-	-	-	-	-	-
Front 2/3 mo	de converter	-	-	-	1	-	-
Max. multiple shift	s (Main lever/rear)	3	3	3		3	3
	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
Release function	2-WAY RELEASE	<b>*</b>	✓	1	1	✓	✓
	Adjustable Mono Lever	-	-	-	-	-	-
	with	-	-	-	-	-	✓
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	1	1	1	1	1	1
Multi-Bearing	construction	-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
bračket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp halt	Material	-		-	-	Stainless steel	Stainless steel
Clamp bolt	Finish			-	-	-	-
Main lover body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
Main lever body	Finish	-	-	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish		-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
buse tover	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK	-	-	-	OPTISLICK
Recommended shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average v	veight (g)	120 ( /pc)	127 ( /pc)	121 (/pc)	116 ( /pc)	127 ( /pc)	-
No	te						

SLMT

SMSL

SMCD

SIVICR

ВВ

ВВ

MF

НВ

НВ

FH

WH

CI-DECK

BL

Ser	ies	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Mode	el no.	SL-M6100-IR	SL-M6000-R	SL-M6000-L	SL-M6000-IR	SL-M6000-IL	SL-M5100-R
	1	Series color	Series black	Series black	Series black	Series black	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front s	peeds	-	-	2/3	-	2/3	-
Rear s	peeds	12	10	-	10	-	11
Compatible rear	derailleur type	MTB 12-speed	MTB 10-speed	-	MTB 10-speed	-	MTB 11-speed
Compatible with I-S	PEC EV Brake Lever	•	✓ (w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)	4	-	-	
	Clamp band	-	✓	✓	-	-	✓
	I-SPEC B	-	-	-	-	-	-
Mount type	I-SPEC II	-	-	-	1	<u> </u>	-
	I-SPEC EV	✓	-	-	A		-
Shifting lever p	position adjust	✓ (14 mm slide adjust range, w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)	-	-			-
Shifting lever rotatio	n adjust (Non I-SPEC /)	-	-		Y	1	-
Shifting lever	cable adjust	✓	✓	×	1	1	✓
Initial lever po	osition adjust	-	-	-	-	-	-
Front 2/3 mo	de converter	-	-	-	-	-	-
Max. multiple shift	s (Main lever/rear)	3	3	-	3	-	3
	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
Release function	2-WAY RELEASE	1	1	1	✓	✓	✓
	Adjustable Mono Lever	-	-		-	-	-
	with	1	1	1	-	-	✓
OPTICAL GEAR DISPLAY	with (removable)		-	-	-	-	-
	without		1	✓	✓	✓	✓
Multi-Bearing	construction	<b>—</b>	-	-	-	-	-
Shifting lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Shifting lever bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Gi. I .	Material	Stainless steel	Stainless steel	Stainless steel	-	-	Stainless steel
Clamp bolt	Finish		-	-	-	-	-
Ad also t	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
Main lever body	Finish	-	-	-	-	-	-
	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
Release lever body	Finish	-	-	-	-	-	-
	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
Base cover	Finish	-	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Shifting lever cable	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shiftir		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average v		-	-	-	-	-	-
No							
140							

Ser	ries	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Mode	el no.	SL-M5100-IR	SL-M5100-L	SL-M5100-IL	SL-M4100-R	SL-M4100-IR	SL-M610-IR
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front	speeds	-	2	2	-	-	-
Rear s	peeds	11	-	-	10	10	10
Compatible real	r derailleur type	MTB 11-speed	-	-	MTB 10-speed	MTB 10-speed	MTB 10-speed
Compatible with I-S	SPEC EV Brake Lever	1	1	1	1	1	-
	Clamp band	-	1	-	1	-	-
No cont to me	I-SPEC B	-	-	-	-	-	1
Mount type	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	1	-	1	-	_	-
Shifting lever p	position adjust	✓ (14 mm slide adjust range, w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)	-	(14 mm slide adjust range)	-	✓ (14 mm slide adjust range, w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)	-
Shifting lever rotation	on adjust (Non I-SPEC V)	-	-	-		-	1
Shifting leve	r cable adjust	✓	✓	1		1	✓
Initial lever p	osition adjust	-	-		-	-	-
Front 2/3 mo	Front 2/3 mode converter		-	-	-	-	-
Max. multiple shift	ts (Main lever/rear)	3	-	-	3	3	3
	MULTI RELEASE	-	-	<u> </u>	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
Release function	2-WAY RELEASE	✓	1	1	1	1	1
	Adjustable Mono Lever	-	-	-	-	-	-
	with	1	-	-	1	1	-
OPTICAL GEAR DISPLAY	with (removable)	-	-	· -	-	-	-
	without	1	1	1	1	1	1
Multi-Bearing	construction			-	-	-	-
Shifting lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-
	Finish	-	-	-	-	-	-
Main lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
,	Finish		-	-	-	-	-
Release lever body	Material	GFRP & Steel	-	-	Resin & Steel	Resin & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
2020 60761	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Steel	Steel	Steel	Steel	Stainless steel
J.many level cable	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	-
Recommended shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average v	weight (g)	-	-	-	-	-	-
No	ote						

SLMT

SMSL

SMCD

SIVICR

ВВ

ВВ

MF

НВ

НВ

FH

WH

CI-DECK

BL

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO
Mode	Model no.		SL-M590-R	SL-M590-L	SL-M3100-R	SL-M3100-L	SL-M3100-2L
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO
Front	speeds	2/3	-	3	-	3	2
Rear s	peeds	-	9	-	9	-	-
Compatible rear	derailleur type	-	MTB 9-speed	-	MTB 9-speed	-	-
Compatible with I-S	PEC EV Brake Lever	-	1	1	-	-	1
	Clamp band	-	1	✓	✓	✓	1
	I-SPEC B	1	-	-	-	-	-
Mount type	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-		-
Shifting lever	position adjust	-	-	-	-		-
Shifting lever rotatio	on adjust (Non I-SPEC V)	1	-	-	-		-
Shifting leve	r cable adjust	1	1	1	•	1	✓
Initial lever po	osition adjust	-	-	-		-	-
Front 2/3 mo	de converter	1	-	_		-	-
Max. multiple shift	s (Main lever/rear)	-	3		3	-	-
	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-		-	-	-
Release function	2-WAY RELEASE	1	1	1		-	1
	Adjustable Mono Lever	-		-	-	-	-
	with	-	1	1	1	1	-
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	1	-		-	-	✓
Multi-Bearing	construction	-	-	-	-	-	-
Shifting lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Shifting lever bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp balt	Material	-	Stainless steel	Stainless steel	Steel	Steel	Steel
Clamp bolt	Finish		-	-	Plated	Plated	Plated
Main lover had	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	Resin & Steel	Resin & Steel	Resin & Steel
Main lever body	Finish	-	-	-	-	-	-
Pologo lover body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	Resin & Steel	-	Resin & Steel
Release lever body	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	Resin	Resin	Resin
pase cover	Finish	-	-	-	-	-	-
Chifting lover cable	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel
Shifting lever cable	Finish	-	-	-	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average v	veight (g)	-	-	-	-	-	-
No	ote						

Ser	ries	SHIMANO ACERA	SHIMANO ACERA	SHIMANO ACERA	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS
Mode	el no.	SL-M3000-R	SL-M3010-L	SL-M360-R	SL-M2010-9R	SL-M2010-L	SL-M2010-2L
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Fronts		-	2	-	-	3	2
Rear s		9	-	8	9	-	-
Compatible rear		MTB 9-speed	-	MTB 8-speed	MTB 9-speed	-	-
Compatible with I-S		1	1		1	1	1
	Clamp band	1	1	1	1	1	1
	I-SPEC B	-	-	-	-	-	-
Mount type	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever		-	-	-	2	-	-
Shifting lever rotation	on adjust (Non I-SPEC	-	-	-	-	-	-
Shifting leve	r cable adjust	1	1	1	1	1	1
Initial lever po	osition adjust	-	-	-	-		-
Front 2/3 mo	de converter	-	-	-,		-	-
Max. multiple shift	ts (Main lever/rear)	3	-	3	3	-	-
	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
Release function	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable Mono Lever	-	-		-	-	-
	with	1	1	1	1	1	1
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing	construction	-	-	-	-	-	-
Shifting lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Shifting lever bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
Clamp bolt	Finish	- 4	-	-	Plated	Plated	Plated
Martin Lauren brader	Material	Steel & Resin	Steel & Resin	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
Main lever body	Finish	-	-	-	-	-	-
Balance Investigation	Material	Steel & Resin	Steel & Resin	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
Release lever body	Finish	-	-	-	-	-	-
	Material	Resin	Resin	Resin	Resin	Resin	Resin
Base cover	Finish	-	-	-	-	-	-
Chifting lover self-	Material	Steel*	Steel	Steel	Steel	Steel	Steel
Shifting lever cable	Finish	Standard	Standard	Standard	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifting	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average v	weight (g)	-	-	-	-	-	-
No	ote	* Stainless steel option available					

SLMT

SMSL

SMCD

SIVICR

ВВ

ВВ

MF

НВ

НВ

WH

CI-DECK

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO TOURNEY	SHIMANO TOURNEY
Mode	el no.	SL-M315-8R	SL-M315-7R	SL-M315-L	SL-M315-2L	SL-FT55-7R	SL-TX50-7R
	1	Series color	Series color				
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Thumb shifter Plus	Thumb Shifter Plus
Front s	speeds	-	-	3	2	-	-
Rear s	peeds	8	7	-	-	7	7
Compatible rear	derailleur type	MTB 8-speed	MTB 7-speed	-	-	MTB 7-speed	MTB 7-speed
Compatible with I-S	PEC EV Brake Lever	1	1	1	1	-	-
	Clamp band	1	✓	1	1	1	1
	I-SPEC B	-	-	-	-	-	-
Mount type	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever p	oosition adjust	-	-	-		-	-
Shifting lever rotatio	n adjust (Non I-SPEC /)	-	-	-	-	-	-
Shifting lever	cable adjust	1	1	1	7	-	-
Initial lever po	osition adjust	-	-	-	-		-
Front 2/3 mo	de converter	-	-	-		-	-
Max. multiple shifts (Main lever/rear)		3	3	-		6	6
	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
Release function	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable Mono Lever	-	-			-	-
	with	1	1	1	1	1	1
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing	construction	-	-	-	-	-	-
Shifting lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
Shifting lever bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Claure to te	Material	Steel	Steel	Steel	Steel	Steel	Steel
Clamp bolt	Finish	Plated	Plated	Plated	Plated	-	-
Main layer by the	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin	Resin
Main lever body	Finish	-	-	-	-	-	-
Dalassa laver trad	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin	Resin
Release lever body	Finish		-	-	-	-	-
Dag	Material	Resin	Resin	Resin	Resin	Resin	Resin
Base cover	Finish	-	-	-	-	-	-
Chifaina la	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
Shifting lever cable	Finish	-	-	-	-	Standard	Standard
Recommended shifting	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40	OT-SIS40
Average v	veight (g)	-	-	-	-	-	-
No	te						

Color  Shifter typ Front spee Rear speed Compatible rear der	1 2 pe	SHIMANO TOURNEY  SL-TX50-6R  Series color  - Thumb Shifter Plus	SHIMANO TOURNEY SL-TX50-L Series color	SHIMANO TOURNEY SL-TX50-LN	SHIMANO TOURNEY SL-TX30-7R	SHIMANO TOURNEY SL-TX30-6R	SHIMANO TOURNEY SL-TX30-LN
Color Shifter typ Front spee	1 2 pe	Series color	Series color		SL-TX30-7R	SL-TX30-6R	SL-TX30-LN
Shifter typ Front spee	2 pe eds	-		Caulaa aalau			
Front spee	pe eds			Series color	Series color	Series color	Series color
Front spee	eds	Thumb Shifter Plus	-	-	-	-	-
Rear speed		Triamb Simter Flas	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus
· ·		-	3	3 (Friction)	-	-	3 (Friction)
Compatible rear der	eds	6	-	-	7	6	-
	railleur type	MTB 6-speed	-	-	MTB 7-speed	MTB 6-speed	-
Compatible with I-SPEC	EV Brake Lever	-	-	-	-	-	-
	Clamp band	1	1	1	1	1	1
Mount type	I-SPEC B	-	-	-	-	-	-
_	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever posit	tion adjust	-	-	-		-	-
Shifting lever rotation ac EV)	djust (Non I-SPEC	-	-	-	-	•	-
Shifting lever cab	ble adjust	-	✓	✓	-	-	✓
Initial lever positi	ion adjust	-	-	-	-		-
Front 2/3 mode c	converter	-	-			-	-
Max. multiple shifts (M	/lain lever/rear)	5	-	•	6	5	-
_ <u> </u>	MULTI RELEASE	-	-	-	-	-	-
	NSTANT RELEASE	-	-	-	-	-	-
Release function 2	2-WAY RELEASE	-	-	-	-	-	-
A	Adjustable Mono Lever	-			-	-	-
	with	✓	1	1	1	✓	✓
OPTICAL GEAR DISPLAY	vith (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing con	nstruction	-	-	-	-	-	-
Shifting lever bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel
bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
Clamp Boit	Finish		-	-	-	-	-
Main lover body	Material	Resin	Resin	Resin	Resin	Resin	Resin
Main lever body	Finish	-	-	-	-	-	-
Polosco lover body	Material	Resin	Resin	Resin	Resin	Resin	Resin
Release lever body	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
pase cover	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
Simulity lever cable	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shifting le	ever outer casing	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weig	ght (g)	-	-	-	-	-	-
Note							

SLMT

SMSL

SMCD

SIVICR

ВВ

ВВ

MF

НВ

НВ

FH

WH

CI-DECK

BL

Series		SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY
Mode	el no.	SL-RS45-8R	SL-RS45-7R	SL-RS45-6R	SL-RS45-L	SL-RS36-7R	SL-RS36-6R
	1	Series color	Series color				
Color	2	-	-	-	-	-	-
Shifte	r type	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front s	speeds	-	-	-	3	-	-
Rear s	peeds	8	7	6	-	7	6
Compatible rear	derailleur type	MTB 8-speed	MTB 7-speed	MTB 6-speed	-	MTB 7-speed	MTB 6-speed
Compatible with I-S	PEC EV Brake Lever	-	-	-	-	-	-
	Clamp band	✓	1	✓	✓	1	✓
Mount tune	I-SPEC B	-	-	-	-	-	-
Mount type	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever p	oosition adjust	-	-	-	,	-	-
Shifting lever rotatio	n adjust (Non I-SPEC /)	-	-	-	-	-	-
Shifting lever	cable adjust	✓	1	✓	7	-	-
Initial lever po	osition adjust	-	-	-	-		-
Front 2/3 mo	de converter	-	-		·	-	-
Max. multiple shift	s (Main lever/rear)	7	6	5		6	5
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable Mono Lever	-	-		-	-	-
	with	✓	1	1	1	1	✓
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing	construction	-	-	-	-	-	-
Shifting lever bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel
bračket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
Ciamp bolt	Finish		-	-	-	-	-
Main lever body	Material		-	-	-	-	-
	Finish		-	-	-	-	-
Release lever body	Material		-	-	-	-	-
ncrease level body	Finish		-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
Dase Cover	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
J and level cable	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shifting	ng lever outer casing	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average v	veight (g)	-	-	-	-	-	-
No	ite					w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option

Ser	ios	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	
Mode		SL-RS36-L	SL-RS35-7R	SL-RS35-6R	SL-RS35-L	SL-RS35-LN	SL-RV200-7R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
2		-	-	-	-	-	-
Shifte		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front s	peeds	3	-	-	3	3 (Friction)	-
Rear s		-	7	6	-	-	7
Compatible rear	derailleur type	-	MTB 7-speed	MTB 6-speed	-	-	MTB 7-speed
Compatible with I-S	PEC EV Brake Lever	-	-	-	-	-	-
,	Clamp band	<b>,</b>	1	1	✓	1	✓
Mount type	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever p	oosition adjust	-	-	-		-	-
Shifting lever rotatio E\	n adjust (Non I-SPEC /)	-	-	-	-		-
Shifting lever	cable adjust	✓	-	-	<b>y</b>	1	-
Initial lever po	osition adjust	-	-	-	-		-
Front 2/3 mo	Front 2/3 mode converter		-	-		-	-
Max. multiple shift	s (Main lever/rear)	-	6	5		-	6
<u> </u>	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-		-	-	-
Release function	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable Mono Lever	-	-		-	-	-
	with	<b>~</b>	1	1	1	✓	1
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing	construction	-	-	-	-	-	-
Shifting lever	Material	Steel	Resin	Resin	Resin	Resin	Resin
Shifting lever bracket	Finish	Painted	Resin	Resin	Resin	Resin	Resin
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Clamp bolt	Finish		-	-	-	-	-
	Material	Y	7 -	-	-	-	-
Main lever body	Finish		-	-	-	-	-
	Material		-	-	-	-	-
Release lever body	Finish		-	-	-	-	-
_	Material	Resin	Resin	Resin	Resin	Resin	Resin
Base cover	Finish	-	-	-	-	-	-
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Shifting lever cable	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shifting lever outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average v	veight (g)	-	-	-	-	-	-
No	te		w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option			

SLMT

SMSL

BL

BR

SMCD

SIVICR

ВВ

ВВ

MF

НВ

НВ

FH

FH

WH

CI-DECK

Ser	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO TOURNEY TZ	SHIMANO TOURNEY TZ	SHIMANO TOURNEY TZ
Mode	el no.	SL-RV200-6R	SL-RV200-L	SL-RV200-LN	SL-TZ500-7R	SL-TZ500-6R	SL-TZ500-LN
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	REVOSHIFT	REVOSHIFT	REVOSHIFT	Thumb Shifter	Thumb Shifter	Thumb Shifter
Front s	peeds	-	3	3 (Friction)	-	-	3 (Friction)
Rear s	peeds	6	-	-	7	6	-
Compatible rear	derailleur type	MTB 6-speed	-	-	MTB 7-speed	MTB 6-speed	-
Compatible with I-S	PEC EV Brake Lever	-	-	-	-	-	-
	Clamp band	✓	✓	1	✓	✓	1
Na	I-SPEC B	-	-	-	-	-	-
Mount type	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever p	oosition adjust	-	-	-	7	-	-
Shifting lever rotatio	n adjust (Non I-SPEC /)	-	-	-	-	-	-
Shifting lever	cable adjust	-	✓	-	-	-	-
Initial lever po	osition adjust	-	-	-	-		-
Front 2/3 mode converter		-	-	-	·	-	-
Max. multiple shift	s (Main lever/rear)	5	-	-	6	5	-
	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
Release function	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable Mono Lever	-			-	-	-
	with	✓	1	-	<b>√</b> *	<b>√</b> *	<b>√</b> *
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing	construction	-	-	-	-	-	-
Shifting lever bracket	Material	Resin	Resin	Resin	Steel	Steel	Steel
bracket	Finish	Resin	Resin	Resin	Painted	Painted	Painted
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
Clamp boil	Finish		-	-	Zinc plated	Zinc plated	Zinc plated
Main lever body	Material			-	Resin	Resin	Resin
main level body	Finish		-	-	-	-	-
Release lever body	Material		-	-	-	-	-
	Finish		-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
Dase cover	Finish	-	-	-	-	-	-
Shifting lover sells	Material	Steel	Steel	Steel	Steel	Steel	Steel
Shifting lever cable	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shiftir	ng lever outer casing	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average v	veight (g)	-	-	-	-	-	-
No	te				* Gear Position Indicator	* Gear Position Indicator	* Gear Position Indicator

### Seat Post Lever

Sei	ries	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	SL-MT800-IL	SL-MT500-L	SL-MT500-IL
	1	Black	Black	Black
Color	2	-	-	-
Levei	· type	Seat post lever	Seat post lever	Seat post lever
Compatible with I-S	SPEC EV Brake Lever	1	✓	1
	Clamp band	-	✓	-
	I-SPEC B	-	-	-
Mount type	I-SPEC II	-	-	-
	I-SPEC EV	1	-	✓
Lever posi	tion adjust	1	-	1
Lever rotation adju	Lever rotation adjust (Non I-SPEC EV)		-	-
Cable adjuster		1	✓	✓
Multi bearing	construction	1	-	-
I bb4	Material	Aluminum	Aluminum	Aluminum
Lever bracket	Finish	Painted	Painted	Painted
Clause half	Material	Stainless steel	Stainless steel	Stainless steel
Clamp bolt	Finish	Black oxide finish	-	-
Lauran bardur	Material	Aluminum	Aluminum	Aluminum
Lever body	Finish	Painted	Painted	Painted
Lever cable	Material	Stainless steel	Steel	Steel
Lever cable	Finish	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41
Average v	weight (g)	37	-	-
No	ote	7 mm Cable Pitch, 1800 mm inner wire length	9 mm Cable Pitch, 1800 mm inner wire length	9 mm Cable Pitch, 1800 mm inner wire length

# Shifting Lever (Integration Unit)

Series		XTR	XTR	SAINT	SHIMANO DEORE XT	SHIMANO DEORE XT
Model no.		SM-SL98-B-R	SM-SL98-B-L	SM-SL82-B	SM-SL78-B-R	SM-SL78-B-L
Base cove	r material	CFRP	CFRP	GFRP	GFRP	GFRP
Shifting lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
bracket	Finish	Anodized	Anodized	Painted	Painted	Painted
I-SPEC co	mpatib <mark>le</mark>	<b>√</b> *				
Compatible S	shifting le <mark>ver</mark>	SL-M980	SL-M980	SL-M820	SL-M780, SL-T780	SL-M780, SL-T780
Note		* I-SPEC B-type compatible				

### МТВ

# Brake Lever (Hydraulic Disc Brake)

Sei	ries	XTR	XTR	XTR	XTR	SAINT	SHIMANO DEORE XT
Mode	el no.	BL-M9100	BL-M9120	BL-M9000	BL-M9020	BL-M820-B	BL-M8100
Brake type		Hydraulic disc brake					
Lever siz	e (finger)	2	2	2	2	2	2
	1	Series color					
Color	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake h	ose (Kit)	SM-BH90-SS	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBM
Hose	joint	Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color	1	Black	Black	Black	Black	Black	Black
(Kit)	2	-	-	-	-	White	-
J-Kit spec	(for OEM)	1	1	1	1	1	✓
SERVO	WAVE	-	1	-	1	_	1
	Toolless	-	1	-	1	1	1
Reach adjust	Tool	1	-	1	-	-	-
Free stro	l ke adjust	-	1	-	,	1	1
	Clamp band	1	1	1	1	1	1
Compatible	I-SPEC B	-	-			1	-
Compatible shifting lever mount	I-SPEC II	-	-	1	1	-	-
	I-SPEC EV	1	1			_	1
Clamp band	Open clamp	1	1		1	1	1
•			·		·	•	-
(deg.) : I	n angle adjust range -SPEC EV	60	60	-	-	-	20
Recommended	d brake caliper	BR-M9100 BR-M9110	BR-M9120	BR-M9000	BR-M9020	BR-M820	BR-M8100 BR-M8110 BR-M8120
C	oil	SHIMANO Mineral					
Funnel i	oleeding	1	1	1	1	1	1
	Material	Aluminum	Stainless steel	Aluminum	Aluminum	Stainless steel	Stainless steel
Clamp bolt	Finish	Anodized	Painted	Anodized	Anodized	Painted	Painted
	Material	Carbon	Aluminum	CFRP	Aluminum+CFRP	Aluminum	Aluminum
Brake lever	Finish	Painted	Anodized	Painted	Painted	Anodized	Anodized
	Material	Magnesium	Aluminum	Magnesium	Aluminum	Aluminum	Aluminum
Master cylinder	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (g) (kit for front 800 mm, w/ 160 mm recommended disc brake rotor, w/ lock ring, w/o adapter, w/ 2 bolts, w/ Resin pad)		312	385	316	360	103.2 *	392 (BR-M8100) 410 (BR-M8120)
Note			-			* Single item weight	

SL

SLMT

MSL

\_

ST

31

FD

BR

DD

SMCD

SMCR

RR

CS

VIF

НВ

HB

FH

CI-DECK

# Brake Lever (Hydraulic Disc Brake)

Ser	ies	SHIMANO DEORE XT	SLX	ZEE	SHIMANO DEORE	SHIMANO	SHIMANO
Mode	Model no.		BL-M7100	BL-M640-B	BL-M6100	BL-M4100	BL-MT501
Brake	type	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic Disc- brake
Lever size	e (finger)	2	2	2	2	2	2
	1	Series color	Series color	Series color	Series Color	Black (SHIMANO logo)	Black
Color	2	-	-	-	Black (SHIMANO Logo)	-	-
	3	-	-	-	-	-	-
Brake ho	ose (Kit)	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBS	SM-BH90-SS	SM-BH59-JK-SS (for BR-MT410) SM-BH90-SS (for BR-MT420)	SM-BH59-JK-SS (for BR-MT500) SM-BH90-SS (for BR-MT520)
Hose	joint	Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color	1	Black	Black	Black	Black	Black	Black
(Kit)	2	-	-	White		-	-
J-Kit spec	(for OEM)	✓	✓	1	1	1	1
SERVO	WAVE	<b>~</b>	✓	1	<b>V</b>		1
Basely adjust	Toolless	<b>*</b>	✓	-	-	-	-
Reach adjust	Tool	-	-	1	1	1	1
Free strol	ke adjust	4	-			-	-
	Clamp band	1	1		1	1	1
Compatible shifting lever	I-SPEC B	-	-	1	-	-	-
shifting lever mount	I-SPEC II	1	-	-	-	-	1
	I-SPEC EV	-	<b>4</b>	-	1	1	-
Clamp band	Open clamp	1	V	1	1	1	1
Shifting lever rotatio (deg.) : I-	n angle adjust range SPEC EV	-	20	-	10	10	-
Recommended	l brake caliper	BR-M8000	BR-M7100 BR-M7110 BR-M7120	BR-M640	BR-M6100 BR-M6120	BR-MT410 BR-MT420	BR-MT500 BR-MT520
0	il	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel b	leeding	1	1	1	1	✓	1
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Clamp Boil	Finish	-	Painted	-	-	-	-
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Diane level	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
·	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average v (kit for front 800 recommended disc l ring, w/o adapter, v pa	Average weight (g) (kit for front 800 mm, w/ 160 mm recommended disc brake rotor, w/ lock ring, w/o adapter, w/ 2 bolts, w/ Resin pad)		425 (BR-M7100) 444 (BR-M7120)	116.7 *	-	-	-
No	te			* Single item weight			-

### МТВ

## Brake Lever (Hydraulic Disc Brake)

Ser	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	BL-MT401	BL-MT402-3A	BL-MT201	BL-MT200
Brake	type	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size	e (finger)	2	3	3	3
	1	Black (Metallic silver lever)	Black	Black	Black
Color	2	Black (Black lever)	Silver *	-	-
	3	-	-	-	-
Brake h	ose (Kit)	SM-BH59-JK-SS (for BR-MT400) SM-BH90-SS (for BR-MT420)	SM-BH59-JK-SS (for BR-MT400, BR- MT410) SM-BH90-SS (for BR-MT420)	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose	joint	Straight	Straight	Straight	Straight
Brake hose color	1	Black	Black	Black	Black
(Kit)	2	-	-	-	
J-Kit spec	(for OEM)	✓	✓	✓	1
SERVO	WAVE	-	-	-	-
Doorb adjust	Toolless	-	-	-	-
Reach adjust	Tool	1	1	1	1
Free stro	ke adjust	-	-	-	
	Clamp band	1	1		1
Compatible	I-SPEC B	-	-		-
shifting lever mount	I-SPEC II	-	-		-
	I-SPEC EV	-		-	-
Clamp band	Open clamp	-	-	-	-
Shifting lever rotatio (deg.) : I-	n angle adjust range -SPEC EV	-	· \	-	-
Recommended	d brake caliper	BR-MT400 BR-MT420	BR-MT400 BR-MT410 BR-MT420	BR-MT200 BR-UR300	BR-MT200 BR-UR300
o	il	SHIMANO Mine <mark>ral</mark>	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel b	oleeding	1	1	1	1
Clamp holt	Material	Steel	Steel	Steel	Steel
Clamp bolt	Finish	Plated	Plated	Plated	Plated
Brake lever	Material	Aluminum	Aluminum	Aluminum	Steel
piake level	Finish	Anodized	Anodized	Anodized	Painted
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum
musici cymider	Finish	Painted	Painted	Painted	Painted
Average v (kit for front 800 recommended disc ring, w/o adapter, v pa	Average weight (g) (kit for front 800 mm, w/ 160 mm recommended disc brake rotor, w/ lock ring, w/o adapter, w/ 2 bolts, w/ Resin pad)		-	-	-
No	ote	-	* The option color part is master cylinder	-	-

SLMT

SMSL

5L

T

31

\_\_\_

FC

SMCD

SMCR

DD

BB

CS

N/IF

...

Н

WH

CI-DECK

## Brake Lever

Sei	ries	SHIMANO DXR
Mode	el no.	BL-MX70
	1	Series color
Color	2	-
	3	-
	V-BRAKE	✓
	Mechanical disc brake (MTB)	1
	Mechanical disc brake (Road)	-
Compatible brake type	Caliper (NEW SUPER SLR)	-
	Caliper (super SLR)	-
	Cantilever brake	-
	Roller brake	-
Recommended	V-BRAKE	-
POWER MODULATOR	Mechanical disc brake (MTB)	-
	Open clamp band	-
Clamp band	I-SPEC	-
	Diameter (mm)	-
Internal bu	ımper stop	-
Lever siz	e (finger)	2
Brake ca	ble type	T-type
Power a	adjuster	-
SERVO	WAVE	-
Reach	adjust	✓
Cable	adjust	1
Cable ad	just type	One hand
Duralise !	Material	Aluminum
Brake lever	Finish	Anodized
Dunko buzzlest	Material	Aluminum
Brake bracket	Finish	Painted
Stainless o	1	
Average v	175 ( /pair)	
No	ote	For BMX



### МТВ

# Shifting/Brake Lever (Hydraulic Disc Brake)

Sei	ries		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.		ST-EF505-9R	ST-EF505-8R	ST-EF505-7R	ST-EF505-2L	ST-EF505-L
Calan		1	Black	Black	Black	Black	Black
Color	:	2	-	-	-	-	-
Shifte	r type		EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
	Front	speeds	-	-	-	2	3
	Rears	peeds	9	8	7	-	-
		converter	-	-	-	-	-
		tiple shifts ver/rear)	3	3	3	-	-
	Compat deraille	ible rear eur type	MTB 9-speed	MTB 8-speed	MTB 7-speed	-	-
	I-SPEC co	mpatible	-	-	-	-	-
	Shiftin positio	g lever n adjust	-	-	-	-	-
	Release function	MULTI RELEASE	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	
Shifting lever		2-WAY RELEASE	-	-	-	-	•
	Shifting le	ever cable just	1	1	1	1	
	OPTICAL GEAR DISPLAY	With	✓	1	1	1	<b>7</b>
		With (remova ble)	-	-			-
		Without	-	-	-	-	-
	Multi-Bearing construction		-	-	-	-	-
	Shifting le	ever outer sing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
	Shifting lever	Material	Steel	Steel	Steel	Steel	Steel
	cable	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
	Lever siz	e (Finger)	3	3	3	3	3
	Brake h	ose (Kit)	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
	Hose joint		Straight	Straight	Straight	Straight	Straight
	Brake hose	1	Black	Black	Black	Black	Black
	color (kit)	2		-	-	-	-
	J-Kit spec	(for OEM)	1	1	1	1	1
	Recomi brake	mended caliper	BR-MT2 <mark>00</mark>	BR-MT200	BR-MT200	BR-MT200	BR-MT200
Brake lever	С	Dil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach	Toolless		-	-	-	-
	adjust	Tool	1	1	1	1	1
	Funnel I	bleeding	1	1	1	1	1
	Free stro	ke adjust		-	-	-	-
	SERVO	WAVE	-	-	-	-	-
	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
		nish	Painted	Painted	Painted	Painted	Painted
Clamp band	<u> </u>	clamp	- Ctarl & Basin	- Charle Basin	- Ctaal 9 Basin	- Charle Basin	- Ctaal 8 Dasin
Shifter Lever body		ain	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
		ease	Aluminum	Aluminum	Aluminum	Steel & Resin Aluminum	Steel & Resin Aluminum
Master cylinder		ish	Painted	Painted	Painted	Painted	Painted
		Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Bracket	Finish	Painted	Painted	Painted	Painted	Painted
Bracket	Clam-	Material	Steel	Steel	Steel	Steel	Steel
	Clamp bolt	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Stainless o	Stainless clamp bolt		-	-	-	-	-
	weight (g)		-	-	-	-	-
	ote						
						•	

SL

SLMT

SMSL

---

BR

BR

BR

SMCD

SMCR

BB

ВВ

CS

ME

...

ID

ПВ

Н

WH

CI-DECK

# Shifting/Brake Lever

Se	ries		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO TOURNEY TX	SHIMANO TOURNEY TX
Mod	lel no.		ST-M310-8R2	ST-M310-L2	ST-EF500-8R2A	ST-EF500-8R4A	ST-TX800-8R	ST-TX800-L
Color		1	Black	Black	Black	Black	Black	Black
Color		2	Silver	Silver	-	-	Silver	Silver
		r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
	-	speeds speeds	- 8	3	8	8	- 8	3
		ible rear eur type	MTB 8-speed	_	MTB 8-speed	MTB 8-speed	MTB 8-speed	_
			WITB 6-speed	-	WITB 0-speed	WITB 0-speed	WITB 0-speed	-
	positio	g lever n adjust	-	-	-	-	-	-
	Shifting le	ever cable ust	✓	1	-	-	-	✓
		converter	-	-	-	-	-	-
	Max. mult (Main le	tiple shifts ver/rear)	3	-	3	3	3	-
		MULTI RELEASE	-	-	-	-	-	-
	Release	INSTANT	_	_	_			_
	function	RELEASE	-	-	-	-	-	-
Shifting lever		2-WAY RELEASE	-	-	-	-	-	-
		With	✓	1	<b>√</b>	1	J	1
	OPTICAL GEAR DISPLAY	With (removab	-	-	-	-	-	-
	DISPLAT	le) Without	-	-	-			-
	Multi-I	Bearing	-	-	_		-	-
	Main	uction Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin	Resin
	lever body	Finish	-	-	The state of the s	-	-	-
	Release	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin	Resin
	lever body	Finish	-	-	-	-	-	-
	Shifting lever	Material	Steel	Steel	Steel	Steel	Steel	Steel
	cable	Finish nended	Standard	Standard	Standard	Standard	Standard	Standard
	shifting le	ever outer	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40	OT-SIS40
	Cas	V-BRAKE	1	1		✓ with switch*	1	1
		Mechanic al disc						
		brake (MTB)	✓	1	1	✓ with switch*	✓	✓
		Mechanic al disc brake	-	-	·	-	-	-
	ļ	(Road) Caliper				_	_	
	Compatib le brake	(SLR-EV) Caliper		-	-	-	-	-
	type	(NEW SUPER SLR)			-	-	-	-
		Caliper (super SLR)	-	-	-	✓ with switch	-	-
		Cantileve r brake		-	-	✓ with switch	-	-
		Roller brake	-	-	-	✓ with switch	-	-
Brake lever	Recomme nded	V-BRAKE	-	-	-	SM-PM40	-	
	POWER MODULA TOR	Mechanic al disc brake (MTB)		-	-	SM-PM50	-	-
	Clamp band	Open clamp band		-	-	-	-	-
		bumper op	-	-	-	-	-	-
		e (Finger)	2	2	2	4	2	2
		ble type	T-type	T-type	T-type	T-type	T-type	T-type
		adjuster WAVE	-	-	-	-	-	-
		adjust	- ✓	<i>-</i>	<i>,</i>	<i>,</i>	- -	- ·
		adjust	1	1	1	1	1	1
	Cable ad	just type	Two hand	Two hand	Two hand	Two hand	Two hand	Two hand
	Brake lever	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Painted	Aluminum Painted	Steel/Resin -	Steel/Resin
		Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
Bracket	Bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
DIALKET	Clamp	Material	Steel	Steel	Steel	Steel	Steel	Steel
A	bolt	Finish	Zinc plated	Zinc plated	Plated	Plated	Zinc plated	Zinc plated
	weight (g)		-	-	-	* POWER MODULATOR must be used for front brake	-	-

SL

SLMT

SMSL

SMCD

SIVICR

ВВ

НВ

WH

CI-DECK

# Shifting/Brake Lever

S	eries		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Мо	del no.		ST-EF500-7R2A	ST-EF500-7R4A	ST-EF500-L2A	ST-EF500-L4A	ST-EF500-2L2A	ST-EF500-2L4A
Color		1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
		r type	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
		speeds speeds	7	7	3	3	2	2
						-	-	-
		ible rear eur type	MTB 7-speed	MTB 7-speed	-	-	-	-
	Shiftin positio	g lever n adjust	-	-	-	-	-	-
	Shifting I	ever cable	_	_	1	1	1	1
		just converter	_	_	-	-		-
Max		tiple shifts			-	-	-	-
	(Main le	ver/rear)	3	3	-	-	-	-
		MULTI RELEASE	-	-	-	-	-	-
	Release	INSTANT	_	_	_	_		_
	function	RELEASE	_	_	_			_
Shifting lever		2-WAY RELEASE	-	-	-	-	-	-
		With	1	1	1	1		1
	OPTICAL GFAR	With (removab	_	_	_			
	GEAR DISPLAY	le)						
		Without	-	-	-	-		-
	Multi-l consti	Bearing ruction	-	-	-	-		-
	Main	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	lever body	Finish	-	-	-		- 1	-
	Release	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	lever body	Finish	-	-	-		-	-
	Shifting lever	Material	Steel	Steel	Steel	Steel	Steel	Steel
	cable	Finish	Standard	Standard	Standard	Standard	Standard	Standard
5	Recomi	mended	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
	cas	ever outer sing	01-31-41	01-31-41	01-31-41	01-31-41	01-31-41	01-31-41
Çom		V-BRAKE	✓	✓ with switch*	1	✓ with switch*	✓	✓ with switch
		Mechanic al disc	,	Consider annie als *		( ish a isah +	,	والمستقدين المستقدين
		brake (MTB)	•	✓ with switch*	1	✓ with switch*	<b>/</b>	✓ with switch
		Mechanic al disc						
		brake	-	-	-	-	-	-
		(Road)						
	Compatib le brake	Caliper (SLR-EV)	-	-	-	-	-	-
	type	Caliper						
		(NEW SUPER		-	-	-	-	-
		SLR) Çaliper						
		(super	-	✓ with switch	-	✓ with switch	-	✓ with switch
		SLR) Cantileve						
		r brake		✓ with switch	-	✓ with switch	-	✓ with switch
		Roller brake		✓ with switch	-	✓ with switch	-	✓ with switch
Brake lever	Recommo	V-BRAKE	-	SM-PM40	-	SM-PM40	-	SM-PM40
	Recomme nded POWER MODULA	Mechanic						
	MODULA	al disc brake	-	SM-PM50	-	SM-PM50	-	SM-PM50
		(MTB)						
	Clamp band	Open clamp	-	-	-	-	-	-
		band bumper						
		op	-	-	-	-	-	-
		e (Finger)	2	4	2	4	2	4
		ble type	T-type	T-type	T-type	T-type	T-type	T-type
		adjuster	-	-	-	-	-	-
		WAVE	-	-	-	-	-	-
		adjust adjust	1	1	1	1	1	1
		ijust type	<b>√</b> Two hand	Two hand	<b>√</b> Two hand	Two hand	<b>√</b> Two hand	<b>√</b> Two hand
		Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Brake lever	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	1	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Bracket	Clamp	Material	Steel	Steel	Steel	Steel	Steel	Steel
	bolt	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average	weight (g)		-	-	-	-	-	-
<u>_</u>				* POWER		* POWER		* POWER
ľ	Note			MODULATOR must be used for front brake		MODULATOR must be used for front brake		MODULATOR m be used for fro brake

# Shifting/Brake Lever

Series			SHIMANO	SHIMANO	SHIMANO
Mo	del no.		ST-EF41-7R	ST-EF41-7R ST-EF41-6R	
Color		1	Black	Black	Black
Color	:	2	-	-	-
	Shifter type		EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
		speeds	-	-	3
		peeds	7	6	-
	Compatible rear derailleur type		MTB 7-speed	MTB 6-speed	-
	Shifting lever position adjust		-	-	-
		ever cable			
	adj	ust	-	-	<b>√</b>
		converter	-	-	-
	Max. mult (Main le	tiple shifts ver/rear)	3	3	-
	<u> </u>	MULTI	-	-	-
	B	RELEASE			
	Release function	INSTANT RELEASE	-	-	-
		2-WAY RELEASE	-	-	-
Shifting lever		With	1	1	1
	OPTICAL	With	•	•	•
	GEAR DISPLAY	(removab le)	-	-	-
		Without	-	-	-
	Multi-I	Bearing	-	-	-
	Main	uction Material	Resin	Resin	Resin
	lever	Finish	kesin -	kesin -	Kesin -
	body Release	Material	Resin	Resin	Resin
	lever	Finish	-	-	-
	body Shifting	Material	Steel	Steel	Steel
	lever	Finish	Standard	Standard	Standard
		nended	Standard	Standard	Standard
	shifting le	ver outer ing	OT-SIS40	OT-SIS40	OT-SIS40
	- Cas	V-BRAKE	1		1
		Mechanic	•		
		al disc brake	✓		1
		(MTB)			
		Mechanic al disc			
		brake (Road)		-	
	Compatib le brake type	Caliper			
		(SLR-EV)	-	-	-
		Caliper (NEW			_
		SUPER SLR)			
		Çaliper			
		(super SLR)	-		-
		Cantileve		-	-
		r brake Roller			
		brake	-	-	-
Brake lever	Recomme	V-BRAKE	-	-	-
	nded POWER	Mechanic al disc			
	MODULA	brake (MTB)		-	-
	Clamp	Open clamp			
	band	clamp band	-	-	-
		bumper	-	-	_
		op (Finger)	2	2	2
		e (Finger) ble type	T-type	T-type	T-type
		adjuster	-	-	-
			-	-	-
	SERVO WAVE Reach adjust		1	1	1
	Reach	aujust		1	✓
		adjust	✓		
	Cable		<b>√</b> Two hand	Two hand	Two hand
	Cable Cable ad Brake	adjust			Two hand Steel/Resin
	Cable ad	adjust just type	Two hand	Two hand	
	Cable Cable ad Brake	adjust just type Material Finish Material	Two hand Steel/Resin - Steel	Two hand Steel/Resin - Steel	Steel/Resin - Steel
Bracket	Cable Cable ad Brake lever Bracket	adjust just type Material Finish Material Finish	Two hand Steel/Resin - Steel Painted	Two hand Steel/Resin - Steel Painted	Steel/Resin - Steel Painted
Bracket	Cable Cable ad Brake lever Bracket	adjust just type Material Finish Material Finish Material	Two hand Steel/Resin - Steel Painted Steel	Two hand Steel/Resin - Steel Painted Steel	Steel/Resin - Steel Painted Steel
	Cable Cable ad Brake lever	adjust just type Material Finish Material Finish	Two hand Steel/Resin - Steel Painted	Two hand Steel/Resin - Steel Painted	Steel/Resin - Steel Painted



### МТВ

SL

SLMT

SMSL

BL

FD

BR

BR

BR

SMCD

SIVICR

ВВ

ВВ

CS

MF

НВ

НВ

FH

FH

WH

CI-DECK

Seri	ies	XTR	XTR	XTR	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX
Mode	l no.	RD-M9100-GS	RD-M9100-SGS	RD-M9120-SGS	RD-M8100-SGS	RD-M8120-SGS	RD-M7100-SGS
Pulley	cage	GS	SGS	SGS	SGS	SGS	SGS
Calin	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Rear s <sub>i</sub>	peeds	12	12	12 (Front double)	12	12 (Front double)	12
Compatik	ole chain	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
	SHIMANO SHADOW RD	-	-	-	-	-	-
Top-Normal spring type	SHIMANO SHADOW RD+	✓	✓	1	1	1	1
	Double servo	-	-	-	-	-	-
	Direct attachment (Conventional)	✓	✓	✓	✓	✓	✓
Mount	Direct mount compatible	-	-	-	-	-	-
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Mode co		-	-	-	-		-
Cable a		- OT	- OT	-	OT	-	-
Max. front		0T	0T	10T	0T	10T	0T
Total ca		35T	41T	41T	41T	45T	41T
Low sprocket	Max.	45T	51T	45T	51T	45T	51T
-	Min.	45T	51T	45T	51T	45T	51T
Top sprocket	Max.	10T	10T	10T	10T	10T	10T
	Min.	10T	10T	10T	10T	10T	10T
Fluoric coated		8	8	8	7	7	7
	G pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	-
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	-
Pulley	Teeth	13T	13T	13T	13T	13T	13T
,	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	✓	✓	1	1	1	1
Bracket	Material	-		-	-	-	-
Didenter	Finish	-	-	-	-	-	-
	Hollow axle	✓	<b>\</b>	1	1	✓	✓
B-axle	Material	Aluminum	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Anodized	Anodized	-	-	-
	Hollow axle	-	-	-	-	-	-
B-axle 2	Material	-	-		-	-	-
	Finish	-	-	-	-	-	-
Dun alcos le culti	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Bracket body	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
D avile	Material	Steel	Steel	Steel	Steel	Steel	Steel
P-axle	Finish	-		-	-	-	-
Dieta Innala	Material	CFRP	CFRP	CFRP	GFRP	GFRP	GFRP
Plate body	Finish	Painted	Painted	Painted	-	-	-
2	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer link	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner link	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
	Material	CFRP	CFRP	CFRP	Aluminum	Aluminum	Steel
Outer plate	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner plate	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cable fixing bolt	Finish	Black	Black	Black	-	-	-
Stroke adjusting	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
Stroke adjusting screw	Finish	Anodized	Anodized	Anodized	Plated	Plated	Plated
Average v	V	237	240	241	284	290	316
		231	w/Bumper on pully	2-71	w/Bumper on pully	230	w/Bumper on pully
No	te	-	cage		cage		cage

Pulley cage  Color  1 Serie  2  Rear speeds (Front Compatible chain  HG 1  SHIMANO SHADOW RD  SHIMANO SHADOW RD+ Double servo  Direct attachment (Conventional)  Direct mount compatible  Riveted adapter (Road type)  Riveted adapter (BMX-Track type)  Mode converter  Cable adjuster  Max. front difference  Total capacity  Low sprocket  Min.  Top sprocket  Max.  Min.  Fluoric coated link bushings  G pulley bearing T pulley bearing T pulley bearing	7120-SGS RD-M6100-SGS SGS SGS ses color Series color	SGS Series color	421(2X11-3peeu),	RD-M8000-SGS  SGS  Series color  - 11  HG-X 11-speed  -  -  -  -  -  -  18T  40T(3x11-speed)	RD-M5100-SGS  SGS  Series color  - 11  HG-X11 11-speed
Rear speeds (Front Compatible chain HG 1  SHIMANO SHADOW RD  SHIMANO SHADOW RD+ Double servo Direct attachment (Conventional) Direct mount compatible Riveted adapter (Road type) Amazer Road Road Road Road Road Road Road Road	es color Series color	Series color	Series color	Series color	Series color
Rear speeds (Front Compatible chain HG 1 SHIMANO SHADOW RD Top-Normal spring type  Mount  Mou		- 11  Heed HG-X 11-speed	- 11 HG-X 11-speed	- 11 HG-X 11-speed -  /  - /  - /  - 18T 40T(3x11-speed),	- 11 HG-X11 11-speed
Rear speeds (Front Compatible chain HG 1 SHIMANO SHADOW RD+ Double servo Direct attachment (Conventional) Direct mount compatible Riveted adapter (Road type) Riveted adapter (BMX-Track type)  Mode converter Cable adjuster Max. front difference Total capacity  Low sprocket Min. Top sprocket Min. Fluoric coated link bushings G pulley bearing T pulley bearing Fluoric coated link bushings Bracket Finish Hollow axle B-axle 2 Material Stainl Finish Hollow axle Hollow axle Hollow axle Hollow axle Hollow axle Material Finish Hollow axle Material Finish Hollow axle Material Material Finish Hollow axle Material	12 t double) 12 2-speed HG 12-speed	11  HG-X 11-speed  -  -  -  -  -  -  -  -  -  -  -  -  -	11  HG-X 11-speed  -  -  -  -  -  -  -  10T  39T  42T(2x11-speed),	11  HG-X 11-speed  -  -  -  -  -  -  -  18T  47T  40T(3x11-speed),	HG-X11 11-speed
Top-Normal spring type  Top-Normal spring type  SHIMANO SHADOW RD+  Double servo  Direct attachment (Conventional)  Direct mount compatible  Riveted adapter (Road type)  Riveted adjuster  Mode converter  Cable adjuster  Max. front difference  Total capacity  Low sprocket  Min.  Fluoric coated link bushings  G pulley bearing  T pulley bearing  T pulley bearing  Teeth  Bolts material  Sunken type pulley bolt  Bracket  Finish  Hollow axle  Material  Finish  Hollow axle  Material  Finish  Hollow axle  Hollow axle	t double)  12 2-speed  HG 12-spee	HG-X 11-speed  -  -  -  -  -  -  -  -  -  -  -  -  -	HG-X 11-speed  -  -  -  -  -  -  -  -  -  -  -  -  10T  39T  -  42T(2x11-speed),	HG-X 11-speed  -  -  -  -  -  -  -  -  -  18T  47T  40T(3x11-speed),	HG-X11 11-speed  -  -  -  -  -  -  -  -  -  -  -  -  -
Compatible chain HG 1  SHIMANO SHADOW RD+  Double servo  Direct attachment (Conventional)  Direct mount compatible  Riveted adapter (Road type)  Riveted adapter (BMX-Track type)  Mode converter  Cable adjuster  Max. front difference  Total capacity  Low sprocket  Min.  Top sprocket  Min.  Fluoric coated link bushings  G pulley bearing  T pulley bearing  Teeth  Bolts material  Sunken type pulley  bolt  Bracket  Finish  Hollow axle  B-axle 2  Material  Stainl  Finish  Hollow axle  Hollow axle  Hollow axle  Material  Finish  Hollow axle  Material	2-speed HG 12-speed	-		-	-
Top-Normal spring type  SHIMANO SHADOW RD+  SHIMANO SHADOW RD+  Double servo  Direct attachment (Conventional)  Direct mount compatible  Riveted adapter (Road type)  Riveted adapter (BMX-Track type)  Mode converter  Cable adjuster  Max. front difference  Total capacity  Low sprocket  Min.  Top sprocket  Min.  Fluoric coated link bushings  G pulley bearing  T pulley bearing  T pulley bearing  T pulley bearing  Teeth  Bolts material  Sunken type pulley  bolt  Bracket  Finish  Hollow axle  B-axle 2  Material  Stainl  Finish  Hollow axle  Hollow axle  Hollow axle  Material  Finish  Hollow axle  Material  Finish  Hollow axle  Material  Finish  Hollow axle  Material		-		-	-
Top-Normal spring type  SHIMANO SHADOW RD+  Double servo  Direct attachment (Conventional)  Direct mount compatible  Riveted adapter (Road type)  Riveted adapter (BMX-Track type)  Mode converter  Cable adjuster  Max. front difference  Total capacity  Low sprocket  Min.  Top sprocket  Min.  Fluoric coated link bushings  G pulley bearing  T pulley bearing  Floots material  Sunken type pulley  bolt  Material  Finish  Hollow axle  B-axle Material  Stainl  Finish  Hollow axle  Hollow axle  Hollow axle  Material  Finish  Hollow axle  Material  Finish  Hollow axle  Material		-	-	-	OT
type    Simple   Simp		-	-	-	OT
Mount    Direct attachment (Conventional)			- - - 10T 39T 42T(2x11-speed),	- - - 181 477 40T(3x11-speed),	- - - - - - 0T
Conventional   Direct mount compatible			- - - 10T 39T 42T(2x11-speed),	- - - 18T 47T 40T(3x11-speed),	- - - - - OT
Mount    Direct mount compatible   Riveted adapter (Road type)   Riveted adapter (Road type)   Riveted adapter (BMX-Track type)   Riveted adapter (Riveted adapter (BMX-Track type)   Riveted a		- - - - - 18T 45T 40T(3x11-speed) 42T(2x11-speed) 46T(1x11-speed)	- - - 10T 39T - 42T(2x11-speed),	- - 18T 47T 40T(3x11-speed),	- 0T
Riveted adapter (Road type) Riveted adapter (BMX-Track type)  Mode converter Cable adjuster Max. front difference Total capacity  Low sprocket Min. Top sprocket Min. Fluoric coated link bushings G pulley bearing T pulley bearing T pulley bearing Sunken type pulley bolt Bracket Finish Hollow axle B-axle B-axle 2 Material Stainl Riveted adapter (Road type) Max. Min. Fluoric coated link bushings Fluoric coated link bushings Fluoric coated link bushings Amaterial Finish Fluoric coated link bushings Fluoric c		- - - - - 18T 45T 40T(3x11-speed) 42T(2x11-speed) 46T(1x11-speed)	- - - 10T 39T - 42T(2x11-speed),	- - 18T 47T 40T(3x11-speed),	- 0T
Road type  Riveted adapter (BMX-Track type)		- 18T 45T 40T(3x11-speed) 42T(2x11-speed) 46T(1x11-speed) 40T	10T 39T 42T(2x11-speed),	- 18T 47T 40T(3x11-speed),	- 0T
BMX-Track type		- 18T 45T 40T(3x11-speed) 42T(2x11-speed) 46T(1x11-speed) 40T	10T 39T 42T(2x11-speed),	- 18T 47T 40T(3x11-speed),	- 0T
Mode converter Cable adjuster Max. front difference Total capacity  Low sprocket  Min.  Top sprocket  Min.  Fluoric coated link bushings  G pulley bearing T pulley bearing Teeth Bolts material Sunken type pulley bolt  Bracket  Finish Hollow axle B-axle B-axle 2  Material  Material Finish Hollow axle B-axle 1  Material Finish Hollow axle Material Finish Hollow axle Material Material Finish Hollow axle Material Material		- 18T 45T 40T(3x11-speed) 42T(2x11-speed) 46T(1x11-speed) 40T	10T 39T , 42T(2x11-speed),	- 18T 47T 40T(3x11-speed),	- 0T
Cable adjuster  Max. front difference  Total capacity  Low sprocket  Min.  Top sprocket  Min.  Fluoric coated link bushings  G pulley bearing  T pulley bearing  Teeth  Bolts material  Sunken type pulley bolt  Bracket  Finish  Hollow axle  B-axle  B-axle Material  Finish  Hollow axle  Hollow axle  Hollow axle  Material  Finish  Hollow axle  Material  Finish  Hollow axle  Material  Finish  Hollow axle  Material  Finish  Hollow axle  Material		- 18T 45T 40T(3x11-speed) 42T(2x11-speed) 46T(1x11-speed) 40T	10T 39T , 42T(2x11-speed),	- 18T 47T 40T(3x11-speed),	- 0T
Max. front difference Total capacity  Low sprocket  Min.  Top sprocket  Min.  Fluoric coated link bushings  G pulley bearing T pulley bearing T pulley bearing Sunken type pulley bolt  Bracket  Finish Hollow axle B-axle B-axle Material Finish Hollow axle Material	10T 0T 45T 41T 45T 51T 45T 51T 10T 10T	18T 45T 40T(3x11-speed) 42T(2x11-speed) 46T(1x11-speed) 40T	10T 39T , 42T(2x11-speed),	18T 47T 40T(3x11-speed),	
Total capacity  Low sprocket  Min.  Max.  Min.  Fluoric coated link bushings  G pulley bearing  T pulley bearing  Teeth  Bolts material  Sunken type pulley bolt  Bracket  Material  Finish  Hollow axle  B-axle  B-axle 2  Material  Finish  Hollow axle  Material  Finish  Hollow axle  Material  Finish  Hollow axle  Material	45T 41T 45T 51T 45T 51T 10T 10T 10T 10T	45T 40T(3x11-speed) 42T(2x11-speed) 46T(1x11-speed) 40T	39T 42T(2x11-speed),	47T 40T(3x11-speed),	
Low sprocket  Min.  Top sprocket  Min.  Fluoric coated link bushings  G pulley bearing  T pulley bearing  Teeth  Bolts material  Sunken type pulley bolt  Bracket  Finish  Hollow axle  B-axle  B-axle Material  Finish  Hollow axle  Hollow axle  Hollow axle  Material  Finish  Hollow axle  Material  Finish  Hollow axle  Material  Finish  Hollow axle  Material  Finish  Hollow axle  Material	45T 51T 10T 10T 10T 10T	42T(2x11-speed) 46T(1x11-speed) 40T	421(2X11-3peeu),	40T(3x11-speed),	
Min.  Max.  Min.  Fluoric coated link bushings  G pulley bearing  T pulley bearing  Teeth  Bolts material  Sunken type pulley bolt  Bracket  Material  Finish  Hollow axle  B-axle  B-axle Material  Finish  Hollow axle  Material	10T 10T 10T 10T	40T	/ /6T/1v11 cnood)	42T(2x11-speed), 46T(1x11-speed)	51T
Top sprocket  Max.  Min.  Fluoric coated link bushings  G pulley bearing  T pulley bearing  Teeth  Bolts material  Sunken type pulley bolt  Bracket  Material  Finish  Hollow axle  B-axle  B-axle 2  Material  Finish  Hollow axle  Material  Finish  Hollow axle	10T 10T 10T 10T	_	40T	40T	51T
Pulley Pulley  Pulley		11Ţ	11T	11T	11T
Pulley  Pulley  Pulley  Feeth  Bolts material  Sunken type pulley bolt  Material  Finish  Hollow axle  B-axle  B-axle Abane 2  Material	_	11T	11T	11T	11T
Pulley  T pulley bearing  Teeth  Bolts material  Sunken type pulley bolt  Material  Finish  Hollow axle  B-axle  B-axle  B-axle 2  Material  Material  Finish  Hollow axle	7 7	4	4	4	7
Pulley Teeth Bolts material Sunken type pulley bolt  Bracket Finish Hollow axle B-axle B-axle Material Finish Hollow axle Material Finish Hollow axle Material Finish Hollow axle Material Finish Hollow axle Material		Sealed Bearing	Sealed Bearing	Sealed Bearing	-
Bolts material Stainl Sunken type pulley bolt  Bracket Finish Hollow axle B-axle Material Stainl Finish Hollow axle Hollow axle Hollow axle Material Stainl Finish Hollow axle Material Stainl		Sealed Bearing	Sealed Bearing	Sealed Bearing	-
Sunken type pulley bolt  Bracket  Material  Finish  Hollow axle  B-axle  Material  Stainl  Finish  Hollow axle  B-axle 2  Material	13T 13T less steel Stainless ste	11T	11T Stainless steel	11T Stainless steel	13T Stainless steel
Bracket  Bracket  Material  Finish  Hollow axle  Material  Stainl  Finish  Hollow axle  B-axle 2  Material					
Bracket Finish Hollow axle B-axle Material Stainl Finish Hollow axle B-axle 2 Material	1	1	1	1	1
B-axle Hollow axle  Material Stainl Finish Hollow axle  B-axle 2 Material	-	Aluminum	Aluminum	Aluminum	-
B-axle Material Stainl Finish Hollow axle B-axle 2 Material		Anodized	Painted	Painted	-
Finish Hollow axle B-axle 2 Material	loss steel Stainless st	steel Aluminum	Stainless steel	✓ Stainless staal	✓ Stainless steel
B-axle 2 Hollow axle Material	less steel Stainless sto	Anodized	Stainless steel	Stainless steel	- Stairness steel
B-axle 2 Material		Allouized	1	1	-
Finish		Aluminum	Stainless steel	Stainless steel	-
		Anodized	-	-	-
Bracket body Material Alui	minum Aluminun	um Aluminum	Aluminum	Aluminum	Aluminum
Finish Pa	inted Painted	d Anodized	Painted	Painted	Painted
l P-axle	Steel Steel		Steel	Steel	Steel
Finish	CERR	- CERD	- CERR	- CERR	- CERR
Plate body Material G	GFRP GFRP	CFRP Painted	GFRP -	GFRP -	GFRP -
Material Alu	minum Aluminun		Aluminum	Aluminum	Aluminum
l Outer link	inted Painted		Painted	Painted	Painted
Material Alui	minum Aluminun		Aluminum	Aluminum	Aluminum
Inner link Finish Pa	inted Painted	d Anodized	Painted	Painted	Painted
Outer plate	minum Steel		Aluminum	Aluminum	Steel
Finish Pa	inted Painted		Painted	Painted	Painted
I Inner plate	inted Steel Painted		Aluminum Painted	Aluminum Painted	Steel Painted
	less steel Stainless ste		Stainless steel	Stainless steel	Stainless steel
Cable fixing bolt Finish		Black	-	-	-
	iteel Steel		Steel	Steel	Steel
Stroke dajusting			Plated	Plated	Plated
Average weight (g)	lated Plated	224	271	275	-
Note	ated Plated 322 -	* w/o Bracket spe	ec. * w/o Bracket spec. available	* w/o Bracket spec. available ** For 3x11-speed, Max 40T for 2x11-speed, Max 42T for 1x11-speed, Max	

### МТВ

SL

SLMT

SMSL

BL

BL

ST

FD

BR

BR

BR

SMCD

SIVICR

ВВ

ВВ

CS

MF

НВ

НВ

FH

FH

WH

CI-DECK

Ser	ies	SHIMANO DEORE	SHIMANO DEORE	SAINT	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX
Mode	el no.	RD-M5120-SGS	RD-M4120-SGS	RD-M820-SS	RD-M781-SGS	RD-M786-SGS	RD-M7000-10-SGS
Pulley	cage	SGS	SGS	SS	SGS	SGS	SGS
Calan	1	Series color	Series color	Series color	Silver	Silver	Series color
Color	2	-	-	-	Black	Black	-
Rear s	peeds	11/10	11/10	10	10	10	10
Compatil	ole chain	HG-X11 11-speed HG-X 10-speed	HG-X11 11-speed HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Top-Normal spring	SHIMANO SHADOW RD	-	1	-	✓	-	-
type	SHIMANO SHADOW RD+	✓	-	•	-	✓	✓
	Double servo	-	-	-	-	-	-
	Direct attachment (Conventional)	✓	1	✓	1	1	1
Mount	Direct mount compatible	✓	1	<b>√</b> *	<b>√</b> *	<b>√</b> *	<b>√</b> *
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Mode co		-	-	1	-		-
Cable a	•	-	-	- Circula	227	-	-
Max. front		10T	10T	Single	22T	22T	22T
Total ca	apacity Max.	41T 46T (1x10-speed) 42T (2x11/	41T 42T	25T 28/36T	43T 36T	43T 36T	43T 36T
Low sprocket	Min.	421 (2X11/ 2x10-speed) 42T	42T	28/361 23T	36T	36T	361 32T
	Max.	421 11T	11T	12T	321 11T	11T	321 11T
Top sprocket	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated		4	3	5	4	4	2
ridoric coated	G pulley bearing	-	-	3	Sealed Bearing	Sealed Bearing	-
	T pulley bearing	<u> </u>	-	Sealed Bearing	Sealed Bearing	Sealed Bearing	-
	Teeth	11T	11T	11T	11T	11T	11T
Pulley	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	✓	✓ ✓	√ ✓	✓	✓	✓
	Material	Steel	Steel	Aluminum	Aluminum	Aluminum	Steel
Bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Hollow axle	1	1	1	1	1	1
B-axle	Material	Stainless steel	Stainless steel	Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	Anodized	-	-	-
	Hollow axle	1	1	1	-	-	1
B-axle 2	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	·	-	-	-	-	-
Drackot bade	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Bracket body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
r-axie	Finish	-	Zinc plated	-	-	-	-
Plate body	Material	Resin	Resin	Aluminum	Aluminum	Aluminum	Aluminum
rate body	Finish		Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Resin	Resin	Aluminum	Aluminum	Aluminum	Steel
	Finish	-	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Steel	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Aluminum	Aluminum	Aluminum	Aluminum
·	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finis <mark>h</mark>	Chr. I	CA call	Black	CA::-1	Ch!	- Canal
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
Average v	Finish veight (g)	Plated -	Plated -	Plated 280 (w/o mode converter)	Plated 238	Plated 266	Plated 313
No				* w/o Bracket spec.	* w/o Bracket spec.	* w/o Bracket spec.	* w/o Bracket spec.
No	rite			available	available	available	available

Serie	es	SLX	SLX	ZEE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Model	l no.	RD-M670-GS	RD-M670-SGS	RD-M640-SS	RD-M6000-GS	RD-M6000-SGS	RD-M610-GS
Pulley	cage	GS	SGS	SS	GS	SGS	GS
Ī	1	Series color	Series color	Series color	Series Black	Series Black	Black
Color	2	-	-	-	-	-	Silver
Rear sp	peeds	10	10	10	10	10	10
Compatib	le chain	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Ton Normal services	SHIMANO SHADOW RD	1	1	-	-	-	1
Top-Normal spring type	SHIMANO SHADOW RD+	-	-	1	1	✓	-
	Double servo	-	-	-	-	-	-
	Direct attachment (Conventional)	✓	1	1	✓	✓	✓
Mount	Direct mount compatible	<b>√</b> *	<b>√</b> *	1	<b>√</b> *	<b>√</b> *	<b>√</b> *
lwount	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Mode co		-	-	_*	-	-	-
Cable ad	•	-	-	-	-		-
Max. front o		18T	22T	Single	10T	22T	18T
Total cap	pacity	35T	43T	25T	41T	43T	35T
Low sprocket	Max.	36T	36T	36T(Freeride spec), 28T(DH spec)	42T	36T	36T
	Min.	32T	32T	23T	42T	32T	32T
Top sprocket	Max.	11T	11T	12T	11T	117	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated I		3	3	3	4	3	3
_	G pulley bearing	-	-	-	·	-	-
-	T pulley bearing	-	-	-	-	-	-
Pulley	Teeth	11T	11T	11T	11T	11T	11T
-	Bolts material Sunken type pulley	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	bolt	1	<b>/</b>	1	1	<b>/</b>	1
Bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
<u>.</u>	Hollow axle	<b>√</b>	<b>√</b>		<b>√</b>	<b>√</b>	<b>√</b>
B-axle	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
	Hollow axle	-	-		<b>√</b>	<b>√</b>	<b>√</b>
B-axle 2	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
<del></del>	Finish	Alumain	Aluminum	- Aluminum	Alumain	Alumin	Alum in
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
<del></del>	Finish Material	Painted	Painted Steel	Painted Stool	Painted	Painted	Painted
P-axle	Finish	Steel	Steel	Steel	Steel Painted	Steel	Steel -
	Material	Aluminum	Aluminum	Aluminum	GFRP	Aluminum	Aluminum
Plate body	Finish	Painted	Painted	Painted	-	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer lillik	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Aluminum	Steel	Steel
c. mik	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Steel	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted	Steel Painted	Steel Painted	Steel Painted
	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel
Cable fixing bolt	Finish	-	-	-	Plated	Plated	Plated
Stroke adjusting	Material	Steel	Steel	Steel	Steel	Steel	Steel
screw	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average w	· ·	278	281	275	-	-	-
Average weight (g) 278 281 275		* w/o Bracket spec.	* w/o Bracket spec.				

SL

SLMT

SMSL

BL

BL

ST

FD

BR

BR

BR

SMCD

SIVICR

ВВ

ВВ

CS

MF

НВ

НВ

FH

FH

WH

CI-DECK

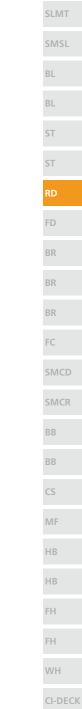
Ser	ries	SHIMANO DEORE	SHIMANO DEORE	SHIMANO ALIVIO	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ACERA
Mode	el no.	RD-M610-SGS	RD-M592-SGS	RD-M3100-SGS	RD-M2000	RD-M370-SGS	RD-M360-SGS
Pulley	r cage	SGS	SGS	SGS	SGS	SGS	SGS
Color	1	Black	Series color	Series color	Series color	Black	Black
Color	2	Silver	-	-	-	Silver	Silver
Rear s	peeds	10	9	9	9	9	8/7
Compatil	ble chain	HG-X 10-speed	HG 9-speed	CN-HG53 9-speed	HG 9-speed	HG 9-speed	HG 8/7-speed
	SHIMANO SHADOW RD	✓	✓	1	✓	-	-
Top-Normal spring type	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	-	-	-	-	1	1
	Direct attachment (Conventional)	✓	✓	✓	1	1	1
	Direct mount compatible	<b>√</b> *	-	-	-	-	-
Mount	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Mode co		-	-	-	-	-	-
Cable a		-	-	1	1	1	1
Max. front	•	22T	22T	22T	22T	22T	20T
Total ca		43T	45T	45T	45T	45T	43T
iotal Ca	Max.	36T	36T	36T	36T	34T	34T
Low sprocket	Min.	32T	32T	32T	32T	28T	28T
	Max.	11T	12T	12T	12T	11T	14T
Top sprocket	Min.	11T	121 11T	121 11T	12T	11T	141 11T
Fluoric coated		3	3	1.	-	-	1
riuoric coateu	G pulley bearing	-	-			-	-
	T pulley bearing	-	-			-	-
1		11T		11T	11T		
Pulley	Teeth Bolts material	Stainless steel	11T	Steel	Steel	11/11T Steel	13/13T
	Sunken type pulley bolt	✓	Stainless steel	Steel	J Steel	√ (Guide pulley)	Steel -
	Material	Steel	Steel	Steel	Steel	- (Tension pulley)	=
Bracket	Finish	Painted	Painted		Painted		-
	Hollow axle	rainted ✓	rainted	Painted	-	-	-
B-axle	Material	Stainless steel					
D-axie	Finish	- Stairness steel	- Stairiless steel	-	-	-	
	Hollow axle	-			-	_	-
P avla 2	Material					-	-
B-axle 2	Finish	Stainless steel	Stainless steel	Stainless steel	Stainless steel	_	-
		Aluminum					
Bracket body	Material Finish	Aluminum	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted
		Painted Steel		Steel	Steel		
P-axle	Material Finish	- Steel	Steel	Zinc plated	Zinc plated	Steel Zinc plated	Steel Zinc plated
	Material	Aluminum	Aluminum	PA-GF	PA-GF	Resin	Resin
Plate body	Finish	Painted	Painted	-	-	Painted	- (Black)
Out at 11 I	Material	Aluminum	Aluminum	PA-GF	PA-GF	Steel	Painted (Silver) Steel
Outer link	Finish	Painted	Painted	-	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Inner link	Finish	Painted	Painted	Painted	Zinc plated	Painted	Zinc plated
_	Material	Steel	Steel	Steel	Steel	Steel	Steel
Outer plate	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Inner plate	Finish	Painted	Painted	Painted	Painted	Painted	Zinc plated
	Material	Steel	Steel	Stainless steel	Stainless steel	Steel	Steel
Cable fixing bolt	Finish	Plated	Plated	-	-	Zinc plated	Zinc plated
Stroko adiustina	Material	Steel	Steel	Steel	Steel	Steel	Steel
Stroke adjusting screw	Finish	Plated	Plated	Plated	Zinc plated	Zinc plated	Zinc plated
Average v		-	-	-	-	-	-
<u>-</u>	ote	* w/o Bracket spec.					
		available			i e		

Ser	Series		SHIMANO TOURNEY TX	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY
Mode	el no.	RD-M310-Smart	RD-TX800	RD-TY500-SGS	RD-TY300-SGS	RD-TY200-SS	RD-TY200-GS
Pulley	cage	Smart	SGS	SGS	SGS	SS	GS
Calan	1	Black	Black	Series color	Series color	Black	Black
Color	2	Silver	Silver	-	-	-	-
Rear s	peeds	8/7	8/7	7/6	7/6	7/6 (Front single)	7/6
Compatil	ole chain	HG 8/7-speed	HG 8/7-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed
Ton Normal anning	SHIMANO SHADOW RD	-	-	-	-	-	-
Top-Normal spring type	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	1	1	<b>✓</b>	1	-	-
	Direct attachment (Conventional)	1	✓	1	1	1	1
Mount	Direct mount compatible	-	-	-	-	-	-
	Riveted adapter (Road type)	-	-	1	1	1	✓
	Riveted adapter (BMX-Track type)	-	-	✓	1	1	-
Mode co		-	-	-	-		-
Cable a	•	✓	1	1	✓	1	1
Max. front		20T	20T	20T	20T	ОТ	20T
Total ca	apacity	43T	43T	43T	43T	20T	34T
Low sprocket	Max.	34T	34T	34T	34T	34T	28T
2011 Sp. Oct.oc	Min.	28T	28T	28T	28T	28T	28T
Top sprocket	Max.	14T	14T	14T	14T	14T	14T
iop spiotitet	Min.	11T	11T	11T	11T	12T	14T
Fluoric coated	link bushings	-	-			-	-
	G pulley bearing	-	-	-	•	-	-
	T pulley bearing	-	-	-	-	-	-
Pulley	Teeth	13/15T	13/13T	13/13T	13/13T	11T/11T	11/11T
	Bolts material	Steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley bolt	-	-	-	-	-	-
Bracket	Material	-		-	-	-	-
bracket	Finish	-	-	-	-	-	-
	Hollow axle	-	-	-	-	-	-
B-axle	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
	Finish	-	-	Zinc plated	Zinc plated	Black	Black
	Hollow axle	-	-	-	-	-	-
B-axle 2	Material	-	-	<b>—</b>	-	-	-
ĺ	Finish	-	-	-	-	-	-
	Material	Aluminum	Resin	Resin	Resin	Resin	Resin
Bracket body	Finish	Painted	Painted	-	-	-	-
pl.	Material	Steel	Steel	Steel	Steel	Steel	Steel
P-axle	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
District.	Material	Resin	Resin	Resin	Resin	Resin	Resin
Plate body	Finish		-	-	-	-	-
0.4	Material	Steel	Steel	Steel	Steel	Steel	Steel
Outer link	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Resin	Steel	Resin	Resin
Inner link	Finish	Zinc plated	Zinc plated	-	Zinc plated	Painted	Painted
_	Material	Steel	Steel	Steel	Steel	Steel	Steel
Outer plate	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Inner plate	Finish	Zinc plated	Zinc plated	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Cable fixing bolt	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc Plated	Zinc Plated
Ctualsa adinetica	Material	Steel	Steel	Steel	Steel	Steel	Steel
Stroke adjusting screw	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc Plated	Zinc Plated
Average v	· ·	-	-		-	-	-
	veignt (g)			w/ Wheel type cable			

#### мтв

SL

Se	ries	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY TZ	
Mod	el no.	RD-TY21-B-SS	RD-TY21-B-GS	RD-TZ500-GS	
Pulley	/ cage	SS	GS	GS	
•	1	Black	Black	Series color	
Color	2	Silver	Silver	-	
Rear	peeds	6	6	6	
Compati	ble chain	HG-UG 6-speed	HG-UG 6-speed	HG-UG 6-speed	
-	SHIMANO SHADOW	-	-	-	
Top-Normal spring type	SHIMANO SHADOW	-	-	-	
	Double servo	-	-	-	
	Direct attachment (Conventional)	1	1	1	
	Direct mount compatible	-	-	-	
Mount	Riveted adapter (Road type)	1	1	1	
	Riveted adapter (BMX-Track type)	-	-	-	
Mode co	onverter	-	-	-	
Cable a	ndjuster	1	1	1	
	difference	13T	20T	20T	
	apacity	28T	34T	34T	
	Max.	28T	28T	28T	
Low sprocket	Min.	28T	28T	28T	
	Max.	14T	14T	14T	
Top sprocket	Min.	14T	14T	14T	
Florest a contact					
Fluoric coated	l link bushings	-	-		
	G pulley bearing	-	-	-	
	T pulley bearing	-	-	-	
Pulley	Teeth	11/11T	11/11T	11/11T	
	Bolts material	Steel	Steel	Steel	
	Sunken type pulley bolt	-	-		
Bracket	Material	-		-	
	Finish	-	-		
	Hollow axle	-		-	
B-axle	Material	Steel	Steel	Steel	
	Finish	Black	Black	Black	
	Hollow axle	-	-	-	
B-axle 2	Material	-	-	-	
	Finish	-	-	-	
	Material	Resin	Resin	Steel	
Bracket body	Finish	-	-	Painted	
	Material	Steel	Steel	Steel	
P-axle	Finish	Zinc plated	Zinc plated	Zinc plated	
	Material	Resin	Resin	Resin	
Plate body	Finish	-	-	-	
	Material	Steel	Steel	Steel	
Outer link	Finish	Painted (Black)	Painted (Black)	Painted	
	Material	Zinc plated (Silver) Steel	Zinc plated (Silver) Steel	Steel	
Inner link	Finish	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)	Zinc plated	
	Material	Steel	Steel	Steel	
Outer plate	Finish	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)	Painted	
	Material	Steel	Steel	Steel	
Inner plate	Finish	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)	Painted	
	Material	Steel	Steel	Steel	
Cable fixing bolt	Finish	Zinc plated	Zinc plated	Zinc plated	
	· •		-	Steel	
Stroke adjusting screw	Material Finish	Steel Zinc plated	Steel Zinc plated	Zinc plated	
Average	weight (g)	-	-	-	
No	ote				



Ser	ies		XTR	XTR	XTR	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT
Mode	el no.		FD-M9100-D	FD-M9100-E	FD-M9100-M	FD-M8100-D	FD-M8100-E	FD-M8100-M
		1	Series color	Series color	Series color	Series color	Series color	Series color
Color		2	-	-	-	-	-	-
	Fro	ont	2	2	2	2	2	2
Speeds	Re	ar	12	12	12	12	12	12
Compatib	ole chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
TOP SWING		-	-	-	-	-	-	
Action		Swing	_	_	_	-	-	_
7.6		WING	1	1	1	1	1	1
	5.523	28.6	<u> </u>		- *			_ *
	Clamp Band 31.8		-	-	✓ (w/ M size adapter)	-	-	✓ (w/ M size adapter)
	(mm)		_	-	<b>√</b>	_	-	<b>√</b>
Mount		With bottom bracket plate	-	-	-	-	-	-
	E-type	Without bottom bracket plate	-	1	-		1	-
	Direct	Mount	✓	-	-	1	-	-
	Dual	l-Pull	-	-	-	-	-	-
Cable route type	Top-Pull	exclusive	-	-	-	-	-	-
Cable route type	Down-Pul	l exclusive	-	-	-		-	-
	Fron	t-Pull	✓	✓	•	V	1	1
Chain lir	ne (mm)		48.8 (142 mm O.L.D.) 51.8 (148 mm O.L.D.)	48.8 (142 mm O.L.D.) 51.8 (148 mm O.L.D.)	48.8 (142 mm O.L.D.) 51.8 (148 mm O.L.D.)	48.8 (142 mm O.L.D.) 51.8 (148 mm O.L.D.)	48.8 (142 mm O.L.D.) 51.8 (148 mm O.L.D.)	48.8 (142 mm O.L.D.) 51.8 (148 mm O.L.D.)
Chain sta	ay angle		66-69	66-69	66-69	66-69	66-69	66-69
Top gea	r teeth		38T	38T	38T	36-38T	36-38T	36-38T
Total ca	pacity		10T	10T	10T	10T	10T	10T
Applicable Top-Mic	d tooth diff	ference	-	-	-	-	-	-
Multi access ca	ble fixing b	oolt	-	-	-	-	-	-
Angled strok			1	1	1	1	1	1
Angled clamp			-		-	_	-	1
Link bu		-	6	6	6	6	6	6
		erial	-	-	Aluminum	-	-	Aluminum
Front clamp band		ish	-	-	Painted	-	-	Painted
		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rear clamp band, base bracket		ish	Painted	Painted	Painted	Painted	Painted	Painted
		erial	- Tunited	Tunica	Stainless steel	-	- Tuniteu	Stainless steel
Clamp bolt		ish			-	_		-
		erial			-	-	_	-
Bottom bracket plate					_	_		-
· ·	_	ish	Alumiaum	Aluminum		Aluminum		Alumain
Outer link	$\leftarrow$	erial	Aluminum		Aluminum		Aluminum	Aluminum
		ish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Finish		Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide Material		Aluminum	Aluminum	Aluminum	Steel	Steel	Steel	
Finish		Plated	Plated	Plated	Plated	1111	Plated	
Cable fixing bolt  Material  Finish		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
Finish		-	- Charl	- Canal	- Charl	- Charl	- Charl	
Stroke adjusting Material Screw		Steel	Steel	Steel	Steel	Steel	Steel	
FIIIISII		Black	Black	Black	Black	Black	Black	
Average weight (g) (Band type: L size, direct type w/ bolt)		110	88	99 * S-size adapter is	135	106	114 * S-size adapter is	
Note			-	-	* 5-size adapter is available in OTC package only Chain line 48.8 mm,			* S-size adapter is available in OTC package only Chain line 48.8 mm,
					51.8 mm compatible			51.8 mm compatible

SL

SLMT

SMSL

BL

BL

RD

BR

BR

SMCD

SIVICR

ВВ

ВВ

CS

MF

НВ

НВ

FH

FH

WH

CI-DECK

Ser	ies		SLX	SLX	SLX	SLX	SLX	SLX
Mode			FD-M7100-D	FD-M7100-E	FD-M7100-M	FD-M7025-11-D	FD-M7025-11-H	FD-M7025-11-L
		1	Series color	Series color	Series color	Series color	Series color	Series color
Color		2	-	-	-	-	-	-
		ont	2	2	2	2	2	2
Speeds		ear	12	12	12	11	11	11
Compatil		aı			HG 12-speed	HG-X11	HG-X11	HG-X11
Compani		MAINIC	HG 12-speed	HG 12-speed	nd 12-speed		ng-XII	
		WING	-	-	-	-	-	1
Action	Down		-	-	-	1	<b>/</b>	-
	SIDE S	SWING	1	1	1	-	-	-
	Clama	28.6	-	-	- *	-	_*	_*
	Clamp Band (mm)	31.8	-	-	√ (w/ M size adapter)	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	-	-	1	-	✓	✓
Mount	E-type	With bottom bracket plate	-	-	1	-	-	-
		Without bottom bracket plate	-	1	-		•	-
	Direct Mount		✓	-	-	1	-	-
	Dua	l-Pull	-	-	-	<b>✓</b>	<b>/</b>	-
Cable reute to	Top-Pull	exclusive	-	-	-	-	-	-
Cable route type	Down-Pul	l exclusive	-	-	-	-	-	1
	Fron	t-Pull	1	1	1		-	-
Chain liı	ne (mm)		48.8 (142 mm O.L.D.) 51.8 (148 mm O.L.D.)	48.8 (142 mm O.L.D.) 51.8 (148 mm O.L.D.)	48.8 (142 mm O.L.D.) 51.8 (148 mm O.L.D.)	48.8	48.8	48.8
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		36-38T	36-38T	36-38T	34-38T	34-38T	34-38T	
Total capacity		10T	10T	10T	10T	10T	10T	
Applicable Top-Mi		ference	_			-	-	-
Multi access ca			_	-		_	_	-
Angled strok			1	1	1	1	1	1
Angled clamp					1	_	1	1
Link bu		<b>5</b>	6	6	6	6	6	6
Link be		erial	-	-	Aluminum	-	Aluminum	Aluminum
Front clamp band		ish	-		Painted	_	Painted	Painted
		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rear clamp band, base bracket								
		nish 	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt		erial	-	•	Stainless steel	-	Stainless steel	Stainless steel
		nish	-	-	-	-	-	-
Bottom bracket plate		erial		-	-	-	-	-
hare		nish			-	-	-	-
Outer link		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
		nish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Finish		Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide Material		Steel	Steel	Steel	Steel	Steel	Steel	
Finish			Plated	Plated	Plated	Plated	Plated	Plated
Cable fixing bolt		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
Finish		-	-	-	-	-	-	
Stroke adjusting Material		Steel	Steel	Steel	Stainless steel	Stainless steel	Stainless steel	
screw Finish		Black	Black	Black	-	-	-	
Average weight (g) (Band type: L size, direct type w/ bolt)		135	106	114	140	152	133	
Note					* S-size adapter is available in OTC package only Chain line 48.8 mm,		* S-size adapter is available in OTC package only.	* S-size adapter is available in OTC package only.
					51.8 mm compatible			

Ser	ries		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT
Mode	el no.		FD-M785	FD-M785-E2	FD-M786	FD-M786-D	FD-M770	FD-M770-E
	1	ı	Black	Black	Black	Black	Series color	Series color
Color	2	2	-	-	Silver	Silver	-	-
	Fro	nt	2	2	2	2	3	3
Speeds	Re	ar	10	10	10	10	9	9
Compatil	ble chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
	TOP S	WING	✓	1	-	-	1	1
Action Down Swing		Swing	-	-	1	1	-	-
	SIDE S	WING	-	-	-	-	-	-
	28.6		✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-
	Clamp Band (mm)	31.8	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	-
	(,	34.9	✓	-	1	-	<b>▲</b> ✓	-
Mount		With bottom bracket plate	-	-	-	-	-	1
	E-type	Without bottom bracket plate	-	1	-			1
	Direct	Mount	-	-	-	1	-	-
	Dual	-Pull	1	✓	1	7	1	1
Cable route type	Top-Pull	exclusive	-	-	1	1	-	-
cable foute type	Down-Pul	exclusive	-	-	-		-	-
	Front	t-Pull	-	-		·	-	-
Chain line (mm)			48.8	48.8	48.8	48.8	50	50
Chain st	Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			38-44T	38-44T	38-44T	38-44T	44T/48T	44T
Total capacity		14T	14T	14T	14T	22T	22T	
Applicable Top-Mi	d tooth diff	erence	-	-	-		12T	12T
Multi access ca	ble fixing b	olt	✓	1		-	-	-
Angled strok	e adjust bo	lt	✓	7	1	1	✓	✓
Angled clamp	band desi	gn	✓		1	-	1	-
Link bu	ıshings		2	2	8	8	2	2
E d . d d	Mat	erial	Aluminum	-	Aluminum	-	Aluminum	-
Front clamp band	Fin	ish	Painted	-	Painted	-	Painted	-
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rear clamp band, base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clama to the	Mat	erial	Stainless steel	-	Stainless steel	-	Stainless steel	-
Clamp bolt	Fin	ish	-	-	-	-	-	-
Bottom bracket	Mat	erial	-	-	-	-	-	Aluminum
plate	Fin	ish			-	-	-	Painted
Outer Park	Mat	erial	Steel	Steel	Aluminum	Aluminum	Steel	Steel
Outer link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Inna Rui	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide Material		erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide Finish		Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing bolt  Material  Finish		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
Stroke adjusting Material Finish		-	-	-	-	-	-	
Average weight (g) (Band type: L size, direct type w/ bolt)		136	127	155	146	152	166	
Note		* Outer casing stopper integrated design.				* Outer casing stopper integrated design.		

SL

SLMT

SMSL

BL

BL

RD

BR

BR

SMCD

SIVICR

ВВ

ВВ

CS

MF

НВ

НВ

FH

FH

WH

CI-DECK

Ser	ries		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX	SLX	SHIMANO DEORE
Mode	el no.		FD-M771	FD-M771-D	FD-M772A	FD-M660	FD-M661	FD-M6000-H
	1	1	Series color	Series color	Series color	Series color	Series color	Series Black
Color	1	2	-	-	-	-	-	-
	Fro	ont	3	3	3	3	3	3
Speeds	Re	ar	9	9	9	9	9	10
Compati	ble chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG-X 10speed
TOP SWING		WING	-	-	1	1	-	-
Action Down Swing		Swing	1	1	-	-	1	-
SIDE SWING		-	-	-	-	-	<b>√</b>	
28.6		28.6	√ (w/ S size adapter)	-	√ (w/ S size adapter)	√ (w/ S size adapter)	√ (w/ S size adapter)	✓ (w/ S size adapter)
	Clamp Band (mm)	31.8	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)
	()	34.9	1	-	1	1	<b>▲</b> ✓	1
Mount		With bottom bracket plate	-	-	-	-	-	-
	E-type	Without bottom bracket plate	-	-	-			-
	Direct	Mount	-	1	-	-	-	-
		-Pull	1	1	✓ (w/ M size adapter)	1	1	-
Cable route type	Top-Pull	exclusive	-	-	1		-	-
cano route type	Down-Pul	l exclusive	-	-			-	-
	Front	t-Pull	-	-	-		-	1
Chain li	ne (mm)		50	50	50	50	50	50
Chain stay angle			66-69	66-69	63-66	66-69	66-69	66-69
Top gear teeth		44T	44T	44T/48T	44T	44T	40-42T	
Total capacity			22T	22T	22T	22T	22T	18T
Applicable Top-Mi	d tooth diff	erence	12T	12T	12T	12T	12T	10T
Multi access ca	ble fixing b	oolt	-	-	-	-	-	-
Angled strok	e adjust bo	lt	✓	1	-	1	1	✓
Angled clamp	band desig	gn	<b>,</b>	Ò	1	1	1	✓
Link bւ	ıshings		8	8	2	2	8	4
Front clamp band	Mat	erial	Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum
Tronc clamp band	Fin	ish	Painted	-	Painted	Painted	Painted	Painted
Rear clamp band,	Mat	erial	Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	-	Painted	Painted	Painted	Painted
Clamp bolt	Mat		Stainless steel		Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Fin	$\overline{}$	-	-	-	-	-	-
Bottom bracket	Mat			-	-	-	-	-
plate	Fin		Y .	-	-	-	-	-
Outer link	Mat		Aluminum	Aluminum	Steel	Steel	Aluminum	GFRP + Steel
	Fin		Painted	Painted	Painted	Painted	Painted	-
Inner link	Mat	_	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Finish			Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Mat		Steel	Steel	Steel	Steel	Steel	Steel
Finish			Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Plated
Cable fixing bolt	Mat		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Finish		Ctainlass start	Ctainlass start	Ctainlass start	Ctainlass start	Ctainlass start	C+c-l	
Stroke adjusting Material Finish		Stainless steel -	Stainless steel -	Stainless steel -	Stainless steel	Stainless steel -	Steel Black	
Average weight (g) (Band type: L size, direct type w/ bolt)			155	147	160	155	158	-
Note						* Outer casing stopper integrated design.		

Color   1	Seri	ies		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Speeds	Mode	l no.		FD-M6000-M	FD-M6000-L	FD-M6000-D	FD-M6000-E	FD-M6025-H	FD-M6025-L
Speed   Provide   Provi			1	Series Black	Series Black				
Speeds	Color		2	-	-	-	-	-	-
Compatible Chain		Fro	ont	3	3	3	3	2	2
Action   TOP SVING	Speeds	Speeds		10					10
Action	Compatib								
Action			WING						
SIDE SWING	Action			-	-	-	-	1	-
Mount   Clamp Gamp (mm)   31.8   Vow M size adapter)   Vow S size adapter)   Vow M size of depter)   Vow M size of depter   Vow M size of depter)				1	1	1	-	_	
Mount   Sang		5.523						/ (w/ S size adapter)	/ (w/ S size adapter)
Mount   Style					-	-	-		•
Mount   Fort   Mount   Material   Materia			31.8			-	-		
P-type		()	34.9	1	1	-	-	<b>▲</b> ✓	1
E-type   Doub-Pull   Common	Mount		bottom bracket	-	-	-	-	-	-
Cable route type		E-type	Without bottom bracket	-	-	-	_		-
Top-Pull exclusive	İ	Direct	Mount	-	-	1	-	-	-
Top-Pull exclusive				-	-	-	-	1	-
Down-Pull exclusive	ļ	Top-Pull	exclusive	-	-	-	-		-
Front-Pull	Cable route type			-	-	-		-	1
Chain line (mm)   50   50   50   50   48.8   48.8	•	Fron	t-Pull	1	1		1	-	
Chain stay angle					-			48.8	
Top gear teeth									
Total capacity									
Applicable Top-Mid tooth difference  Multi access cable fixing bolt  Angled stroke adjust bolt  Angled damp band design  V V V V V V V V V V V V V V V V V V				1					
Multi access cable fixing bolt  Angled stroke adjust bolt  Angled stroke adjust bolt  Angled stroke adjust bolt  Angled damp band design  Angled damp band design  Angled damp band design  A 4 4 4 4 8 2  Link bushings  A 4 4 4 4 8 2  Aluminum Aluminum  Aluminum Aluminum Aluminum  Finish Painted Painted Painted Painted Painted Painted Painted  Rear clamp band, base bracket  Finish Painted  Clamp bolt  Finish Painted Painte			forence						
Angled stroke adjust bolt  Angled stroke adjust bolt  Angled clamp band design  Link bushings  4 4 4 4 4 4 8 2  Link bushings  Material  Front clamp band Finish  Painted  Pai				-		101		_	
Angled clamp band design    Link bushings				,				,	
Link bushings		-							
Front clamp band Finish Painted Painte			gn			•		-	
Front clamp band, base bracket  Rear clamp band, base bracket  Clamp bolt  Clamp bolt  Bottom bracket plate  Inner link  Chain guide  Cable fixing bolt  Cable fixing bolt  Cable fixing bolt  Cable fixing bolt  Stroke adjusting  Aluminum   LINK DU									
Rear clamp band, base bracket   Finish   Painted   Pai	Front clamp band					-			
Rear Clamp bote base bracket    Finish   Painted   Painted   Painted   Painted   Painted   Painted   Painted   Painted   Painted						-			
Clamp bolt    Material   Stainless steel   Stainless steel   -   Stainless steel   -     -     -	Rear clamp band,								
Clamp bolt   Finish   -	ause brucher					Painted			
Bottom bracket plate Finish	Clamp bolt				Stainless steel	-			
Duter link   Finish			_						
Outer link    Material   GFRP + Steel   GFRP + Steel   GFRP + Steel   GFRP + Steel   Aluminum   Steel			$\overline{}$	-	-	-	-	-	-
Outer link    Finish	piate			-	Crop Si I	-	-	-	-
Material   Aluminum	Outer link			GFRP + Steel					
Inner link Finish Painted Steel Steel Steel Steel Plated Pla		Finish							
Chain guide    Material   Steel   Stainless steel   Stainl	Inner link	Inner link							
Cable fixing bolt  Cable fixing bolt  Cable fixing bolt  Stroke adjusting screw  Finish  Black  Black  Black  Black  Black  Black  Black  Black  Average weight (g) (Band type: L size, direct type w/ bolt)  Plated  lated  Plated  Plated  Plated  Plated  P		Finish							
Cable fixing bolt  Cable fixing bolt  Stroke adjusting screw  Finish  Average weight (g) (Band type: L size, direct type w/ bolt)  Plated  Pla	Chain guide								
Cable fixing bolt  Finish  Stroke adjusting screw  Finish  Black  Black  Black  Black  Black  Black  Black  Black  Average weight (g) (Band type: L size, direct type w/ bolt)	Finish								
Stroke adjusting Screw Finish Black Black Black Black Black Care Glarect type w/ bolt)  Stroke adjusting Screw Finish Black Black Black Black Black	Cable fixing bolt							Stainless steel	
Strew Finish Black Black Black Black Black	Finish		$\overline{}$						
Average weight (g) (Band type: L size, direct type w/ bolt)	Stroke adjusting						Stainless steel	Stainless steel	
	screw Finish			Black	Black	Black	Black	-	-
	Average weight (g) direct type	Average weight (g) (Band type: L size, direct type w/ bolt)			-	-	-	-	-
Note									

SL

SLMT

SMSL

BL

BL

RD

BR

BR

SMCD

SIVICR

ВВ

ВВ

CS

MF

НВ

НВ

FH

FH

WH

CI-DECK

Sei	ries		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Mode	el no.		FD-M6025-D	FD-M5100-D	FD-M5100-E	FD-M5100-M	FD-M4100-D	FD-M4100-E
		1	Series Black	Series color	Series color	Series color	Series color	Series color
Color	- :	2	-	-	-	-	-	-
	Fro	ont	2	2	2	2	2	2
Speeds	Re	ar	10	11	11	11	10	10
Compatible chain		HG-X 10speed	HG-X11 11-speed	HG-X11 11-speed	HG-X11 11-speed	HG-X 10-speed	HG-X 10-speed	
	TOP S	WING	-	-	-	-	-	-
Action Down Swing		✓	-	-	-	-	-	
SIDE SWING		-	1	1	1	1	1	
28.6		-	-	-	_ *	-	-	
	Clamp Band (mm)		-	-	-	✓ (w/ M size adapter)	-	-
	()	34.9	-	-	-	✓	-	-
Mount		With bottom bracket plate	-	-	-	-	-	-
	E-type	Without bottom bracket plate	-	-	1			1
	Direct	Mount	1	1	-	-	1	-
	Dual	l-Pull	1	-	-			-
California de America	Top-Pull	exclusive	-	-	-	-	-	-
Cable route type	Down-Pul	l exclusive	-	-	-		-	-
	Fron	t-Pull	-	1		V	1	1
Chain li	ne (mm)		48.8/51.8*	48.8/51.8	48.8/51.8	48.8/51.8	48.8/51.8	48.8/51.8
Chain stay angle			66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			34-38T	36T	36T	36T	36T	36T
Total capacity		10T	10T	10T	10T	10T	10T	
Applicable Top-Mi	d tooth diff	ference	-	-	-	-	-	-
Multi access ca	ble fixing b	oolt	-	-		-	-	-
Angled strok	e adjust bo	lt	✓	<b>X</b>	/	1	✓	✓
Angled clamp	band design	gn	-		-	1	-	-
Link bu	ıshings		8	4	4	4	4	4
	Mat	erial	-	-	-	Aluminum	-	-
Front clamp band	Fin	ish	-	-	-	Painted	-	-
Rear clamp band.	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rear clamp band, base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clause halt	Mat	erial	Stainless steel	-	-	Stainless steel	-	-
Clamp bolt	Fin	ish	-		-	-	-	-
Bottom bracket	Mat	erial	-	-	-	-	-	-
plate	Fin	ish			-	-	-	-
Outer link	Mat	erial	Aluminum	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel
Outer link	Fin	ish	Painted	-	-	-	-	-
Innor link	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner link Finish		Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide Material		Steel	Steel	Steel	Steel	Steel	Steel	
Chain guide Finish		Plated	Plated	Plated	Plated	Plated	Plated	
Cable fixing bolt		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
Finish		-	-	-	-	-	-	
Stroke adjusting Material Screw		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
FIIIISII		-	Black	Black	Black	Black	Black	
Average weight (g) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note		* Compatible with the special crankset which chain line is 3 mm outboard.			* S-size adapter is available in OTC package only.			

Series			SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Mode	el no.		FD-M4100-M	FD-M617-H	FD-M617-L	FD-M617-D	FD-M617-E	FD-M618-E
		1	Series color	Black	Black	Black	Black	Black
Color		2	-	-	-	-	-	-
	Fre	ont	2	2	2	2	2	2
Speeds	Speeds Rear		10	10	10	10	10	10
Compati	ble chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
	TOP S	WING	-	-	-	-	-	1
Action Down Swing		Swing	-	-	-	-	-	-
	SIDE SWING		✓	1	1	1	1	-
28.6		_ *	√ (w/ S size adapter)	√ (w/ S size adapter)	-	-	-	
	Clamp Band (mm)	31.8	✓ (w/ M size adapter)	√ (w/ M size adapter)	✓ (w/ M size adapter)	-	-	-
	()	34.9	1	1	1	-	-	-
Mount		With bottom bracket plate	-	-	-	-	-	-
	E-type	Without bottom bracket plate	-	-	-			1
	Direct	Mount	-	-	-	1		-
	Dua	l-Pull	-	-	-	-		-
Cable route tune	Top-Pull	exclusive	-	-	-	-	-	-
Cable route type	Down-Pul	l exclusive	-	-	-	-	-	✓
	Fron	t-Pull	✓	<b>✓</b>	•	<b>V</b>	1	-
Chain li	Chain line (mm)		48.8/51.8	48.8	48.8	48.8	48.8	48.8*
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gea	Top gear teeth		36T	36-38T	36-38T	36-38T	36-38T	36-38T
Total c	Total capacity		10T	14T	14T	14T	14T	14T
Applicable Top-Mi	d tooth dif	ference	-	-	-	-	-	-
Multi access ca	ble fixing l	oolt	-	-		-	-	-
Angled strok	e adjust bo	olt	✓	7	1	1	✓	✓
Angled clamp	band desi	gn	✓	1	1	-	-	-
Link bu	ıshings		4	4	4	4	4	2
Front clamp band	Mat	erial	Aluminum	Aluminum	Aluminum	-	-	-
Tront clamp band	Fin	ish	Painted	Painted	Painted	-	-	-
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Mat	erial	Stainless steel	Stainless steel	Stainless steel	-	-	Stainless steel
	Fin	nish			-	-	-	-
Bottom bracket		erial	-	-	-	-	-	-
plate	Fin	nish	-	-	-	-	-	-
Outer link	Mat	erial	GFRP+Steel	GFRP + Steel	GFRP + Steel	GFRP + Steel	GFRP + Steel	Steel
	Fin	ish	-	-	-	-	-	Painted
Inner link		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Finish		Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide Material		Steel	Steel	Steel	Steel	Steel	Steel	
Finish			Plated	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright
Cable fixing bolt		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
Finish		-	-	-	-	-	-	
Stroke adjusting Material Finish		Stainless steel	Steel	Steel	Steel	Steel	Stainless steel	
1111311		Black	Black	Black	Black	Black	-	
Average weight (g) direct typ	Average weight (g) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-
Note		* S-size adapter is available in OTC package only.			* Compatible with the special crankset which chain line is 3 mm outboard.	* Compatible with the special crankset which chain line is 3 mm outboard.	* Compatible with the special crankset which chain line is 3 mm outboard.	

SL

SLMT

SMSL

BL

RD

BR

SMCD

SIVICR

ВВ

ВВ

MF

НВ

НВ

FH

FH

WH

CI-DECK

Ser	ies		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Mode	el no.		FD-M610-B	FD-M610-E	FD-M611-B	FD-M611-D	FD-M615-B	FD-M615-E2
	1	1	Black	Black	Black	Black	Black	Black
Color		2	-	-	-	-	-	-
	Fro	ont	3	3	3	3	2	2
Speeds	Re	ar	10	10	10	10	10	10
Compatil	ole chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
	TOP S	WING	1	✓	-	-	1	✓
Action Down Swing		Swing	-	-	1	1	-	-
	SIDE SWING		-	-	-	-	-	-
		28.6	√ (w/ S size adapter)	-	√ (w/ S size adapter)	-	✓ (w/ S size adapter)	-
	Clamp Band (mm)	31.8	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	-
		34.9	✓	-	✓	-	<b>✓</b>	-
Mount	F. 40.00.0	With bottom bracket plate	-	-	-	-	-	-
	E-type	Without bottom bracket plate	-	✓	-			/
	Direct	Mount	-	-	-	1	-	-
	Dual	-Pull	1	✓	1	1	1	✓
Cable route type	Top-Pull e	exclusive	-	-	1	1	-	-
Cable foute type	Down-Pull	l exclusive	-	-	-		-	-
	Front	t-Pull	-	-	-		-	-
Chain line (mm)		50	50	50	50	48.8	48.8	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		40-42T	40-42T	40-42T	40-42T	38-44T	38-40T	
Total capacity		18T	18T	18T	18T	14T	14T	
Applicable Top-Mi	d tooth diff	erence	10T	10T	10T	10T	-	-
Multi access ca	ble fixing b	oolt	✓	1		-	✓	✓
Angled strok	e adjust bo	lt	1	1	1	1	1	✓
Angled clamp	band desig	gn	✓	-	1	-	1	-
Link bu	shings		2	2	8	8	2	2
F	Mate	erial	Aluminum	-	Aluminum	-	Aluminum	-
Front clamp band	Fin	ish	Painted	-	Painted	-	Painted	-
Rear clamp band,	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp half	Mate	erial	Stainless steel		Stainless steel	-	Stainless steel	-
Clamp bolt	Fin	ish	-		-	-	-	-
Bottom bracket	Mate	erial	-	-	-	-	-	-
plate	Fin	ish			-	-	-	-
Outer link	Mate	erial	Steel	Steel	Aluminum	Aluminum	Steel	Steel
Outer IIIIk	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link Material		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide Material		erial	Steel	Steel	Steel	Steel	Steel	Steel
Finis		ish	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright
Cable fixing bolt Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
Cable fixing boit Finis		ish	-	-	-	-	-	-
Stroke adjusting screw	Mate	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
1111311			-	-	-	-	-	-
Average weight (g) (Band type: L size, direct type w/ bolt)			-	-	-	-	-	-
direct typ	e w/ boit)				l l			

Seri	ies		SHIMANO DEORE	SHIMANO DEORE	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO
Mode	l no.		FD-M616-B	FD-M616-D	FD-M4020-M	FD-M4000-DS6	FD-M3100-M	FD-M3120-D
	1	1	Black	Black	Series color	Black	Series color	Series color
Color	2	2	-	-	-	-	-	-
	Fro	ont	2	2	2	3	3	2
Speeds	Re	ar	10	10	9	9	9	9
Compatib	le chain		HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	CN-HG53 9-speed	CN-HG53 9-speed
	TOP S	WING	-	-	-	-	-	-
Action	Down	Swing	✓	1	-	1	-	-
	SIDE S	WING	-	-	1	-	1	✓
		28.6	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	√ (w/ S size adapter)	✓ (w/ S size adapter)	-
	Clamp	24.0	✓ (w/ M size		✓ (w/ M size	✓ (w/ M size	✓ (w/ M size	
	Band (mm)	31.8	adapter)	-	adapter)	adapter)	adapter)	-
		34.9	✓	-	1	✓	1	-
Mount	F 40.000	With bottom bracket plate	-	-	-	-	-	-
	E-type	Without bottom bracket plate	-	-	-			-
	Direct	Mount	-	1	-	-		1
	Dual	-Pull	✓	✓	-	1		-
l i	Top-Pull	exclusive	✓	<b>√</b>	-	-	-	-
Cable route type	Down-Pul	l exclusive	-	-	-		-	-
	Front	t-Pull	-	-	1		1	1
Chain lin	ie (mm)		48.8	48.8	48.8	50	50	48.8/51.8
Chain sta			66-69	66-69	64-69	66-69	66-69	64-69
Top gea			38-44T	38-44T	36T	40T	40T	36T
Total ca			14T	14T	14T	18T	18T	14T
Applicable Top-Mic	· ·	erence	-	-		10T	10T	-
Multi access cal			-	-		_	-	_
Angled stroke			1	1	1	1	1	1
Angled clamp			1	-		1	1	1
Link bu		•	8	8	4	2	4	4
	Mat	erial	Aluminum		Steel	Steel	Steel	-
Front clamp band	Fin		Painted	=	Painted	Painted	Painted	_
	Mat	-	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rear clamp band, base bracket	Fin		Painted	Painted	Painted	Painted	Painted	Painted
	Mat		Stainless steel		Stainless steel	Stainless steel	Steel	Steel
Clamp bolt	Fin		-		-	-	-	-
Datta ma la constant	Mat		-	-	-	-	-	<u>-</u>
Bottom bracket plate		ish			_	-	-	-
		erial	Aluminum	Aluminum	Steel	Aluminum	Steel	Steel
Outer link	Fin		Painted	Painted	Painted	Painted	Painted	Painted
	_		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner link	Inner link Finish		Painted	Painted	Painted	Painted	Painted	Painted
	Finish Material		Steel	Steel	Steel	Steel	Steel	Steel
Chain guide Finish			Pearl Bright	Pearl Bright	Chrome plated	Chrome plated	Chrome Plated	Chrome Plated
Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
Cable fixing bolt Finish		-	-	-	-	-	-	
		Stainless steel	Stainless steel	Stainless steel	Stainless steel	-	<u> </u>	
Stroke adjusting screw	Stroke adjusting Screw Finish Material			5.0000000000000000000000000000000000000	- Stairness steel	-	-	
	Average weight (g) (Band type: L size, direct type w/ bolt)			-	-	-	-	<u>-</u>
					-			
Note								

SL

SLMT

SMSL

BL

RD

BR

SMCD

SIVICR

ВВ

ВВ

MF

НВ

НВ

FH

FH

WH

CI-DECK

Series			SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ACERA	SHIMANO ALTUS	SHIMANO ALTUS
Mode	l no.		FD-M3120-E	FD-M3120-M	FD-M3120-M-B	FD-M3000-TS6	FD-M2020-TS	FD-M2000-TS3
	1	1	Series color	Series color	Series color	Black	Series color	Black
Color			-	-	-	-	-	-
	Fro	ont	2	2	2	3	2	3
Speeds	Re	ar	9	9	9	9	9	9
Compatib	ole chain		CN-HG53 9-speed	CN-HG53 9-speed	CN-HG53 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
	TOP S	WING	-	-	-	1	✓	1
Action	Down	Swing	-	-	-	-	-	-
	SIDE S	WING	✓	1	1	-	-	-
	28.6		-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	√ (w/ S size adapter)	✓ (w/ S size adapter)
	Clamp Band (mm)	31.8	-	✓ (w/ M size adapter)	√ (w/ M size adapter)	√ (w/ M size adapter)	√ (w/ M size adapter)	✓ (w/ M size adapter)
	()	34.9	-	1	1	1	<b>▲</b> ✓	1
Mount		With bottom bracket plate	-	-	-	-	-	-
	E-type	Without bottom bracket plate	1	-	-			-
	Direct	Mount	-	-	-	-	-	-
	Dual	-Pull	-	-	-	1	1	1
6.11	Top-Pull	exclusive	-	-	-	-	-	-
Cable route type	Down-Pull	exclusive	-	-	-		-	-
	Front	t-Pull	✓	1			-	-
Chain lin	ie (mm)		48.8/51.8	48.8	51.8	50	48.8/51.8*	50
Chain sta	y angle		64-69	64-69	64-69	66-69	64-69	63-66
Top gea	r teeth		36T	36T	36T	40T	36T	40T
Total ca	pacity		14T	14T	14T	18T	14T	18T
Applicable Top-Mic	tooth diff	erence	-		-	10T	-	10T
Multi access cal	ble fixing b	olt	-	-		-	-	-
Angled stroke	e adjust bo	lt	✓		1	1	1	✓
Angled clamp	band desig	gn	1	1	1	1	1	1
Link bu	shings		4	4	4	-	-	-
Forms alamos based	Mate	erial	-	Steel	Steel	Steel	Steel	Steel
Front clamp band	Fin	ish	-	Painted	Painted	Painted	Painted	Painted
Rear clamp band,	Mate	erial	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp half	Mate	erial	Steel	Steel	Steel	Stainless steel	Steel	Steel
Clamp boil	Clamp bolt Finish		-	-	-	-	Nickel Plated	Nickel Plated
Bottom bracket	Mate	erial	-	-	-	-	-	-
plate	Fin	ish	-		-	-	-	-
Outer link	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
Outer link	Fin	ish	Painted	Painted	Painted	Painted	Zinc plated	Zinc plated
Material		erial	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
Inner link Finish		ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide Material		Steel	Steel	Steel	Steel	Steel	Steel	
Finish		ish	Chrome Plated	Chrome Plated	Chrome Plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing bolt		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
Finish		-	-	-	-	-	-	
Stroke adjusting Material Screw Finish		-	-	-	Steel	Steel	Steel	
screw Finish			-	-	-	Zinc plated	Zinc plated	Zinc plated
Average weight (g) (Band type: L size, direct type w/ bolt)			-	-	-	-	-	-
Note							* Boost Spec	

Speeds	Seri	ies		SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS
Speeds	Mode	l no.		FD-M2000-TS6	FD-M2000-DS3	FD-M2000-DS6	FD-M370-3	FD-M370-6	FD-M371-3
Speeds			1	Series color	Black	Series color	Series color	Series color	Series color
Speeds	Color	- :	2	-	-	-	-	-	-
No.		Fro	ont	3	3	3	3	3	3
Action	Speeds	Re	ear	9	9	9	9	9	9
Action   Down-wing   Size	Compatib	ole chain		HG 9-speed					
SIDE > SIDE > SIDE		TOP S	WING	✓	-	-	1	1	-
	Action	Down	Swing	-	1	1	-	-	1
Mount		SIDE S	WING	-	-	-	-	-	-
Mount			28.6	√ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)			
Mount		Band	31.8						✓ (w/ M size adapter)
		()	34.9	✓	1	1	1	<b>▲</b> ✓	1
Direct Mount   Dire	Mount		bottom bracket	-	-	-	-	-	-
Dual-Pull		E-type	bottom bracket	-	-	-			-
Cable route type		Direct	Mount	-	-	-	-	-	-
Down-Pull exclusive		Dual	l-Pull	1	1	1	7	1	1
Down-Pull exclusive   -	Cable variate true	Top-Pull	exclusive	-	-	-	-	-	-
Chain line (mm)         50         50         50         50         50           Chain stay angle         66-69         63-66         66-69         63-66         66-69         63-66           Top gear teeth         40T         40T         40T         447148T         447148T </td <td>Cable route type</td> <td>Down-Pul</td> <td>l exclusive</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	Cable route type	Down-Pul	l exclusive	-	-	-	-	-	-
Chain stay angle         66-69         63-66         66-69         63-66         66-69         63-66         66-69         63-66         66-69         63-66         66-69         63-66         66-69         63-66         66-69         63-66         66-69         63-66         66-69         63-66         66-69         63-66         66-69         63-66         66-69         63-66         66-69         63-66         7         50-6         7         447/48T         447/48T </td <td></td> <td>Fron</td> <td>t-Pull</td> <td>-</td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td>		Fron	t-Pull	-	-			-	-
Top gear teeth	Chain lin	e (mm)		50	50	50	50	50	50
Total capacity	Chain sta	y angle		66-69	63-66	66-69	63-66	66-69	63-66
Applicable Top-Mid tooth difference   10T	Top gea			40T	40T	40T	44T/48T	44T/48T	44T/48T
Multi access cable fixing bolt  Angled stroke adjust bolt  Angled stroke adjust bolt  Angled clamp band design  Link bushings	Total ca			18T	18T	18T	22T	22T	22T
Angled stroke adjust bolt  Angled clamp band design  Angled clamp band design  Link bushings	Applicable Top-Mic	d tooth diff	ference	10T	10T	10T	12T	12T	12T
Angled clamp band design  Link bushings	Multi access ca	ble fixing b	oolt	-	-		-	-	-
Link bushings   -   -   -   -     -     -     -     -	Angled stroke	e adjust bo	lt	1	1	1	-	-	-
Front clamp band   Material   Steel   Painted   Nickel plated   Steel   Nickel plated   Painted   Painte	Angled clamp	band design	gn	1	1	1	1	1	1
Front clamp band Finish Painted Nickel plated Painted Pain	Link bu	shings		-	-	-	-	-	-
Rear clamp band, base bracket   Finish   Painted   Nickel plated   Painted	Forms alarma based	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Finish   Painted   Paint	Front clamp band	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Base bracket   Finish   Painted   Painted   Painted   Painted   Painted   Painted   Painted   Painted   Painted	Rear clamp band.	Mat	erial	Steel	Aluminum	Aluminum	Steel	Steel	Aluminum
Clamp bolt   Finish   Nickel Plated   Nickel	base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Bottom bracket plated	Clame half	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Outer link    Material   Steel   Steel	Стаптр вот	Fin	ish	Nickel Plated					
Plate Finish		Mat	erial	-	-	-	-	-	-
Outer link         Finish         Zinc plated         Painted         Steel         Steel         Steel         Steel         Steel         Painted         Pa		Fin	ish			-	-	-	-
Inner link   Material   Steel   Stee	Outer link	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide   Finish   Painted   Painted/Zinc plated   Painted/Zinc plated   Painted/Zinc plated   Painted   Paint	- 3 to 1 11 M	Fin	ish	Zinc plated	Painted	Painted	Painted		
Chain guide     Material     Steel     Steel<	Inner link Material		Steel	Steel	Steel		Steel		
Chain guide       Finish     Chrome plated     Steel     Steel     Steel     Steel     Steel     Nickel plated     Nickel plated     Nickel plated     Nickel plated     Steel     S		Finish			Painted/Zinc plated	Painted/Zinc plated	Painted		
Cable fixing bolt   Chrome plated   Steel	Chain guide								
Cable fixing bolt  Finish  Nickel plated Nickel plated Nickel plated  Stroke adjusting screw  Material  Steel  Stee	Finish					•	-	Chrome plated	
Stroke adjusting screw Finish Nickel plated Nickel plated Nickel plated Nickel plated Nickel plated Steel	Cable fixing bolt								
Strew Finish Zinc plated	Finish					-		Nickel plated	
Zinc plated Zinc plated Zinc plated Zinc plated Zinc plated	Stroke adjusting								
Average weight (g) (Band type: L size, I	FIIIISII			Zinc plated					
direct type w/ bolt)	Average weight (g) (Band type: L size, direct type w/ bolt)			-	-	-	-	-	-
Note Note									

SL

SLMT

SMSL

BL

BL

RD

BR

BR

BR

SMCD

SIVICR

ВВ

ВВ

CS

MF

НВ

НВ

FH

FH

WH

CI-DECK

Seri	es		SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS
Model	no.		FD-M371-6	FD-M315-TS	FD-M313-3	FD-M313-6	FD-M310-3	FD-M310-6
	1	1	Series color					
Color	2	2	-	-	-	-	-	-
	Fro	ont	3	2	3	3	3	3
Speeds	Re	ar	9	8/7	8/7	8/7	8/7	8/7
Compatib	le chain		HG 9-speed	HG 8/7-speed				
	TOP S	WING	-	1	-	-	1	1
Action	Down	Swing	1	-	1	1	-	-
	SIDE SWING		-	-	-	-	-	-
		28.6	✓ (w/ S size adapter)	√ (w/ S size adapter)	√ (w/ S size adapter)	√ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)
	Clamp Band	31.8	✓ (w/ M size adapter)					
	(mm)	34.9	1	1	1	1	<b>▲</b> ✓	1
		With	•	•	•	•	•	•
Mount	E-type	bottom bracket plate	-	-	-	-	-	-
	E-type	Without bottom bracket plate	-	-	-			-
	Direct	Mount	-	-	-	-	-	-
	Dual		1	1	1	1	1	1
	Top-Pull		-	-	-	-		-
Cable route type	Down-Pul		-	-			-	-
	Front		_	_			_	-
Chain lin			50	48.8/51.8*	47.5/50	47.5/50	47.5/50	47.5/50
Chain sta			66-69	64-69	63-66	66-69	63-66	66-69
	Top gear teeth		44T/48T	36T	42T/48T	42T/48T	42T/48T	42T/48T
	Total capacity		22T	14T	20Т	20T	20T	20T
Applicable Top-Mid	· ·	erence	12T	-	10T	10T	10T	10T
Multi access cal			-	<u> </u>			-	-
Angled stroke			-	1		_	_	-
Angled clamp			1	1	1	1	1	1
Link bus		<b>9</b> ··	-		-	_	-	-
	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Front clamp band	Fin		Painted	Painted	Painted	Painted	Painted	Painted
	Mat		Aluminum	Steel	Aluminum	Aluminum	Steel	Steel
Rear clamp band, base bracket	Fin		Painted	Painted	Painted	Painted	Painted	Painted
	Mat		Steel	Steel	Steel	Steel	Steel	Steel
Clamp bolt	Fin		Nickel plated					
Pottom bus dist	Mat		-	-	-	-	-	-
Bottom bracket _ plate	Fin				-	-	-	-
		erial	Steel	Steel	Steel	Steel	Steel	Steel
Outer link	Fin		Painted	Painted	Painted	Painted	Painted	Painted
		erial	Steel	Zinc plated	Steel	Steel	Steel	Steel
Inner link	$\overline{}$	ish	Painted	Painted	Painted	Painted	Painted	Painted
	Material		Steel	Steel	Steel	Steel	Steel	Steel
Chain guide Finish		Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Material			Steel	Steel	Steel	Steel	Steel	Steel
Cable fixing bolt Finish		Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Material		Steel	Steel	Steel	Steel	Steel	Steel	
Stroke adjusting screw Finish		Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (g) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
	Note			* Boost spec.				
Note								

Seri	es		SHIMANO TOURNEY TX	SHIMANO TOURNEY TX	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY
Mode	l no.		FD-TX800-TS3	FD-TX800-TS6	FD-TY700-TS3	FD-TY700-TS6	FD-TY710-2-TS3	FD-TY710-TS3
	1		Black	Series color	Black	Black	Series color	Series color
Color		2	-	-	-	-	-	-
	Fro	ont	3	3	3	3	2	3
Speeds	Re		8/7	8/7	8/7	8/7	8/7	8/7
Compatib			HG 8/7-speed					
	TOP S	WING	1	1	1	1	1	1
Action	Down	Swing	-	-	-	-	-	-
Ī	SIDE S	WING	-	-	-	-	-	-
		28.6	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	√ (w/ S size adapter)	-	✓ (w/ S size adapter)
	Clamp Band (mm)	31.8	✓ (w/ M size adapter)					
	()	34.9	1	1	1	1	_ /	1
Mount		With bottom bracket plate	-	-	-	-	-	-
	E-type	Without bottom bracket plate	-	-	-	A		-
ŀ	Direct	-	-	-	-		-	-
	Dual		1	1	1			1
-	Top-Pull e		-	-	-		-	-
Cable route type	Down-Pull		_	-			_	_
	Front		_	-			_	_
l Chain lin		· · · · ·	47.5/50	47.5/50	47.5/50	47.5/50	48.8	47.5/50
Chain stay angle		63-66	66-69	63-66	66-69	63-68	63-66	
	Top gear teeth		42T/48T	42T/48T	42T	42T	46T	48T
, •		20T	20T	18T	18T	16T	20T	
	Total capacity  Applicable Top-Mid tooth difference		10T	10T	8T	8T	-	10T
Multi access cal			-	101	-	-	_	-
			-			-	-	-
Angled stroke								
Angled clamp		gn	1	/	1	1	<b>/</b>	1
Link bu			-	-	-	-	-	-
Front clamp band	Mate		Steel	Steel	Steel	Steel	Steel	Steel
	Fin		Painted	Painted	Painted	Painted	Painted	Painted
Rear clamp band, base bracket	Mate		Steel	Steel	Steel	Steel	Steel	Steel
base bracket	Fin		Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Mate		Steel	Steel	Steel	Steel	Steel	Steel
	Fin	ish	Nickel plated					
Bottom bracket plate	Mate		-	-	-	-	-	-
Piate	Fin		Chr. (1	Charl	- C4 1	CA I	I	CA I
Outer link	Mate		Steel Zinc plated	Steel Zinc plated	Steel Zinc plated	Steel Zinc plated	Steel Zinc plated	Steel Zinc plated
+	_	erial	Steel	Zinc plated Steel				
Inner link	Fin		Painted	Painted	Painted	Painted	Painted	Painted
	Mate		Steel	Steel	Steel	Steel	Steel	Steel
Chain guide	Fin		Chrome plated					
	Mate		Steel	Steel	Steel	Steel	Steel	Steel
Cable fixing bolt	Fin		Nickel plated					
	Mate		Steel	Steel	Steel	Steel	Steel	Steel
Stroke adjusting screw	Fin							
Average weight (g) direct type			Zinc plated					
no No								
NO								

#### итв

SL

SLMT

SMSL

BL

BL

RD

BR

BR

BR

SMCD

SIVICR

ВВ

ВВ

CS

MF

НВ

НВ

FH

FH

WH

CI-DECK

Seri	es		SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY
Mode	l no.		FD-TY710-TS6	FD-TY500-TS3	FD-TY500-TS6	FD-TY510-TS3	FD-TY510-TS6	FD-TY300-DS6
	1	ı	Black	Series color	Series color	Series color	Series color	Series color
Color	- 2	2	-	-	-	-	-	-
	Fro	nt	3	3	3	3	3	3
Speeds	Re	ar	8/7	7/6	7/6	7/6	7/6	7/6
Compatib	le chain		HG 8/7-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed
	TOP S	WING	1	1	1	1	1	-
Action	Down	Swing	-	-	-	-	-	1
Ī	SIDE S	WING	-	-	-	-	-	-
		28.6	√ (w/ S size adapter)	√ (w/ S size adapter)	√ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓
	Clamp Band (mm)	31.8	✓ (w/ M size adapter)	√ (w/ M size adapter)	✓			
		34.9	1	✓	1	1	<b>✓</b>	-
Mount		With bottom bracket plate	-	-	-	-	-	-
	E-type	Without bottom bracket plate	-	-	-			-
	Direct	Mount	-	-	-	-		-
	Dual	-Pull	1	1	1	<b>7</b>	1	-
Cable varies true	Top-Pull	exclusive	-	-	-	-	-	✓
Cable route type D	Down-Pul	exclusive	-	-	-	-	-	1
	Front-Pull		-	-		-	-	-
Chain line (mm)		47.5/50	47.5/50	47.5/50	47.5/50	47.5/50	47.5	
Chain stay angle		66-69	63-66	66-69	63-66	66-69	66-69	
Top gear teeth		48T	42T	42T	48T	48T	42T	
Total capacity		20T	18T	18T	20T	20T	18T	
Applicable Top-Mid tooth difference		10T	8T	8T	10T	10T	8T	
Multi access cal	ble fixing b	olt	-	-		-	-	-
Angled stroke	adjust bo	lt	-	-	-	-	-	-
Angled clamp	band desig	gn	✓	1	1	1	✓	-
Link bu	shings		-	-	-	-	-	-
Front clamp band	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Tront clamp band	Fin	ish	Painted	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Painted
Rear clamp band,	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
base bracket	Fin	ish	Painted	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Painted
Clamp bolt	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
	Fin	ish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Bottom bracket	Mat	erial	-	-	-	-	-	-
plate	Fin	ish	-	-	-	-	-	-
Outer link		erial	Steel	Steel	Steel	Steel	Steel	Steel/Resin
		ish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Painted
Inner link		erial	Steel	Steel	Steel	Steel	Steel	Steel
		ish	Painted	Painted	Painted	Painted	Painted	Zinc plated
Chain auida	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide		ish	Chrome plated	Chrome plated/ Painted	Chrome plated/ Painted	Chrome plated/ Painted	Chrome plated/ Painted	Zinc plated
Cable fixing bolt		erial	Steel	Steel	Steel	Steel	Steel	Steel
		ish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Stroke adjusting screw		erial	Steel	Steel	Steel	Steel	Steel	Steel
		ish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g) direct type		e: L size,	-	-	-	-	-	-
Not	te							

Series		SHIMANO TOURNEY	SHIMANO TOURNEY TZ	SHIMANO TOURNEY TZ	
Mode	el no.		FD-TY300-DS6	FD-TZ500-DS6	FD-TZ510-DS6
Color		1	Series color	Series color	Series color
Color	- :	2	-	-	-
C	Fre	ont	3	3 (friction)	3 (friction)
Speeds	Re	ar	7/6	7/6	7/6
Compati	ble chain		HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed
	TOP S	WING	-	-	-
Action	Down Swing		1	1	1
	SIDE S	WING	-	-	-
		28.6	-	1	1
	Clamp Band	31.8	-	1	1
	(mm)	34.9	1	-	-
Mount	F.4	With bottom bracket plate	-	-	-
	E-type	Without bottom bracket plate	-	-	-
	Direct	Mount	-	-	-
	Dua	l-Pull	-	-	-
	Top-Pull	exclusive	1	1	1
Cable route type	Down-Pull exclusive		1	1	1
	Fron	t-Pull	-	-	-,
Chain line (mm)		50	47.5	47.5	
Chain st	ay angle		66-69	66-69	66-69
Top gea	ar teeth		42T	42T	48T
Total capacity		18T	18T	20T	
Applicable Top-Mi	d tooth dif	ference	8T	8T	10T
Multi access ca	able fixing l	oolt	-		-
Angled strok	e adjust bo	lt	-	-	-
Angled clamp	band desi	gn	-	-	-
Link bu	ushings	_	-		-
	Mat	erial	Steel	Steel	Steel
Front clamp band	Fin	ish	Painted	Painted	Painted
Rear clamp band,	Mat	erial	Steel	Steel	Steel
base bracket	Fin	ish	Painted	Painted	Painted
	Mat	erial	Steel	Steel	Steel
Clamp bolt		ish	Nickel plated	Zinc plated	Zinc plated
Pottom bracket		erial	-		-
Bottom bracket plate		ish	- /	-	-
	Mat	erial	Steel/Resin	Steel/Resin	Steel/Resin
Outer link		ish	Painted	Painted	Painted
		erial	Steel	Steel	Steel
Inner link		ish	Zinc plated	Painted	Painted
		erial	Steel	Steel	Steel
Chain guide		ish	Zinc plated	Painted	Painted
		erial	Steel	Steel	Steel
Cable fixing bolt		ish	Nickel plated	Zinc plated	Zinc plated
Ctualia adiaratia	_	erial	Steel	Steel	Steel
Stroke adjusting screw		ish	Zinc plated	Zinc plated	Zinc plated
Average weight (g) (Band type: L size, direct type w/ bolt)			p.acca	placea	
Average weight (g) direct typ	e w/ bolt)	e. L Size,	-	-	-



SL

SLMT

SMSL

SMCD

SIVICR

ВВ

WH

CI-DECK

Ser	ries	XTR	XTR	XTR	XTR	XTR	SAINT
Mode	el no.	BR-M9100	BR-M9110-R	BR-M9120	BR-M9000	BR-M9020	BR-M820
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake	type	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake h	ose (Kit)	SM-BH90-SS	SM-BH90-SS	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBLS
Hose	joint	Straight	Straight	Banjo	Banjo	Banjo	Banjo
Brake hose color	1	Black	Black	Black	Black	Black	Black
(Kit)	2	-	-	-	-	-	White
J-Kit spec	(for OEM)	✓	1	1	✓	✓	✓
ICE TECHNOLOGIE cali	ES pad compatible per	-	1	✓	✓	✓	✓
	Standard 1	K03Ti Resin pad w/o fin (w/ titanium back plate)	K03Ti Resin (w/o fin)	N03A Resin pad (w/ radiator fin)	G02A Resin G03A Resin	J02A Resin J03A Resin	H01A Resin H03A Resin
Pad	Standard 2	K04Ti Metal pad w/ o fin (w/ titanium back plate)	K04Ti Metal (w/o fin)	N04C Metal pad (w/ radiator fin)	G04Ti Metal	J04C Metal	H03C Metal
	Option 1	-	-	-	J02A Resin J03A Resin	G02A Resin G03A Resin	-
	Option 2	-	-	-	J04C Metal	G04Ti Metal	-
	10 mm mount	-	-	-	-	-	-
Fixing bolt Spec for rear mount	15 mm mount	-	-	-	·	-	-
	20 mm mount	-	1	-		-	-
	25 mm mount	-	1	-	-	-	-
	30 mm mount	-	✓	-	-	-	-
	35 mm mount	-	-	-	-	-	-
Recommende	d brake lever	BL-M9100	BL-M9100	BL-M9120	BL-M9000	BL-M9020	BL-M820
Recommended	disc brake rotor	RT-MT900	RT-MT900	RT-MT900	SM-RT99 * SM-RT99-A	SM-RT99 * SM-RT99-A	SM-RT99 SM-RT86
	140 mm (SS)	1	1	1	1	✓	✓
Compatible Brake Rotor Size	160 mm (S)	1	1	1	1	1	1
Rotor Size	180 mm (M)	1	-	1	✓	✓	1
	203 mm (L)	-	-	1	✓	1	1
0	il	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY	BLEEDING	1	1	-	1	1	1
Moun	t type	Post-type	Flat mount	Post-type	Post-type	Post-type	Post-type
Pis	ton	2	2	4	2	2	4
Piston r	material	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
	MONO-BODY	1	-	-	-	1	-
Caliper	Material	Aluminum	Aluminum	Aluminum	Magnesium	Aluminum	Aluminum
	Finish	Anodizing	Anodizing	Painted	Painted	Painted	Painted
	Material	Ti	Steel	Ti	Ti	Ti	Steel
Caliper fixing bolt	Tool size	** 4 mm	4 mm	** 4 mm	** 4 mm	** 4 mm	5 mm
	Anti loosen method	Wiring	Bolt fix pin/Snap ring	Wiring	Wiring	Wiring	Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g) ( w/ 160 mm recomi rotor, w/ lock ring, bolts, w/	kit for front 8 <mark>00 m</mark> m, mended disc brake w/o adapter, w/ 2 resin pad)	312	341	385 (w/ radiator fin)	316.1	359.6	306 ** (w/ radiator fin)
No	ote	** Titanium	For rear only. 140 mm disc brake rotor direct mount	** Titanium	* 140 mm for rear only ** Titanium	* 140 mm for rear only ** Titanium	** Single item weight

Pad  C  10 i  15 i  Fixing bolt Spec for rear mount	1 2 DEM) d compatible Standard 1	BR-M8100  Series color  Hydraulic disc brake  SM-BH90-SBM  Banjo  Black	BR-M8110-R Series color  Hydraulic disc brake SM-BH90-SS Straight Black -	BR-M8120 Series color  Hydraulic disc brake SM-BH90-SBM Banjo	BR-M8000 Series color Hydraulic disc brake SM-BH90-SB	BR-M8020 Series color Hydraulic disc brake	BR-M7100 Series color
Brake type  Brake hose (Kit)  Hose joint  Brake hose color (Kit)  J-Kit spec (for OEI  ICE TECHNOLOGIES pad caliper  St  St  Pad  (C)  10 I  15 II  Fixing bolt Spec for rear mount	2 3 (it)  1 2 DEM) d compatible Standard 1	- Hydraulic disc brake SM-BH90-SBM Banjo Black -  ✓	- - Hydraulic disc brake SM-BH90-SS Straight	- Hydraulic disc brake SM-BH90-SBM	- - Hydraulic disc brake	- - Hydraulic disc brake	-
Brake type  Brake hose (Kit)  Hose joint  Brake hose color (Kit)  J-Kit spec (for OEI  ICE TECHNOLOGIES pad caliper  St  St  Pad  (C)  10 I  15 II  Fixing bolt Spec for rear mount	3 (it)  1 2 DEM) d compatible Standard 1	SM-BH90-SBM  Banjo  Black  -	- Hydraulic disc brake SM-BH90-SS Straight	- Hydraulic disc brake SM-BH90-SBM	- Hydraulic disc brake	- Hydraulic disc brake	-
Brake hose (Kit)  Hose joint  Brake hose color (Kit)  J-Kit spec (for OEI  ICE TECHNOLOGIES pad ocaliper  St  St  Pad  (0)  10 1  15 1  Fixing bolt Spec for rear mount	1 2 DEM) d compatible Standard 1	SM-BH90-SBM  Banjo  Black  -	Hydraulic disc brake SM-BH90-SS Straight	SM-BH90-SBM	Hydraulic disc brake		
Brake hose (Kit)  Hose joint  Brake hose color (Kit)  J-Kit spec (for OEI  ICE TECHNOLOGIES pad ocaliper  St  St  Pad  (C)  10 1  15 1  Fixing bolt Spec for rear mount	1 2 DEM) d compatible Standard 1	SM-BH90-SBM  Banjo  Black  -	SM-BH90-SS Straight	SM-BH90-SBM	•		Hydraulic disc brake
Hose joint  Brake hose color (Kit)  J-Kit spec (for OEI  ICE TECHNOLOGIES pad caliper  St  St  Pad  (C)  10 i  15 i  Fixing bolt Spec for rear mount	1 2 DEM) d compatible Standard 1	Banjo Black - ✓	Straight		SM-BH90-SB		riyaraanic aist brake
Brake hose color (Kit)  J-Kit spec (for OEI ICE TECHNOLOGIES pad caliper  St  Pad  Color    10 1  15 1  Fixing bolt Spec for rear mount for sear mount for specific s	1 2 DEM) d compatible Standard 1	Black -		Banjo		SM-BH90-SBLS	SM-BH90-SBM
J-Kit spec (for OEI  ICE TECHNOLOGIES pad coaliper  St  Pad  (C)  100  150  Fixing bolt Spec for rear mount	2 DEM) d compatible Standard 1	-	Black -		Banjo	Banjo	Banjo
J-Kit spec (for OEI  ICE TECHNOLOGIES pad coaliper  St  Pad  (C)  100  150  Fixing bolt Spec for rear mount	DEM) d compatible Standard 1	1	-	Black	Black	Black	Black
ICE TECHNOLOGIES pad coaliper  St  Pad  Coaliper  St  100  150  Fixing bolt Spec for rear mount	d compatible Standard 1			-	-	-	-
Pad  Pad  Co  10 in  15 in  Fixing bolt Spec for rear mount	Standard 1	✓	✓	✓	✓	✓	✓
Pad  C  10 i  15 i  Fixing bolt Spec for rear mount			✓	✓	✓	<b>▲</b> ✓	1
Pad  C  10 I  15 I  Fixing bolt Spec for rear mount		G03A Resin (w/o fin)	K03S Resin (w/o fin)	N03A Resin (w/ fin)	G02A Resin G03A Resin	H01A Resin H03A Resin	G03S Resin (w/o fin)
Fixing bolt Spec for rear mount	Standard 2	G04S Metal (w/o fin)	K04S Metal (w/o fin)	N04C Metal (w/ fin)	J02A Resin J03A Resin	H03C Metal	G04S Metal (w/o fin)
10 I 15 I Fixing bolt Spec for rear mount	Option 1	J03A Resin (w/ fin)	L03A Resin (w/ fin)	D03S Resin (w/o fin)	G04S Metal	D015 Resin D035 Resin	J03A Resin (w/ fin)
Fixing bolt Spec for	Option 2	J04C Metal (w/ fin)	L04C Metal (w/ fin)	D02S Metal (w/o fin)	J04C Metal	-	J04C Metal (w/ fin)
Fixing bolt Spec for	0 mm mount	-	-	-	-	-	-
rear mount	5 mm mount	-	-	-		-	-
25	0 mm mount	-	✓	-		-	-
	5 mm mount	-	1	-	-	-	-
30 ו	0 mm mount	-	✓	-	-	-	-
35 ו	5 mm mount	-	-		-	-	-
Recommended brake	ke lever	BL-M8100 BL-T8100	BL-M8100	BL-M8100 BL-T8100	BL-M8000 BL-T8000	BL-M8000	BL-M7100
Recommended disc bra	orake rotor	RT-MT800	RT-MT800	RT-MT800	RT-MT800 SM-RT86	RT-MT800 SM-RT99 RT-EM810 RT-EM910	SM-RT70
14	140 mm (SS)	1		1	✓	✓	1
Compatible Brake Rotor Size	160 mm (S)	1	✓	V	✓	✓	✓
Rotor Size 18	180 mm (M)	1	1	1	<b>✓</b>	✓	1
20	203 mm (L)	_	-	<b>*</b>	<b>~</b>	✓	✓
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDI	DING	1		-	✓	✓	✓
Mount type	e	Post-type	Flat mount	Post-type	Post-type	Post-type	Post-type
Piston		2	2	4	2	4	2
Piston material	ial	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
MC	MONO-BODY	-	-	-	-	-	-
Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
<u> </u>	Material	Steel	Steel	Steel	Steel	Steel	Steel
Caliper fixing bolt	Tool size	5 mm	4 mm	5 mm	5 mm	5 mm	5 mm
Anti lo	i loose <mark>n meth</mark> od	Snap ring	Bolt fix pin/Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g) (kit for f w/ 160 mm recommended rotor, w/ lock ring, w/o ad bolts, w/ resin pa	▼						
Note		392	417	410	402.5	-	425

SL

SLMT

SMSL

SMCD

SIVICR

ВВ

WH

CI-DECK

Ser	ies	SLX	SLX	ZEE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Mode	el no.	BR-M7110-R	BR-M7120	BR-M640	BR-M6100	BR-M6120	BR-M6000
	1	Series color	Series color	Series color	Series Color	Series Color	Series Black
Color	2	-	-	-	Black (SHIMANO logo) ***	Black (SHIMANO logo) ***	Series Silver *
	3	-	-	-	-	-	Black (SHIMANO logo) ***
Brake	type	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake ho	ose (Kit)	SM-BH90-SS	SM-BH90-SBM	SM-BH90-SBS	SM-BH90-SS	SM-BH90-SS	SM-BH90-SS
Hose	joint	Straight	Banjo	Banjo	Straight	Straight	Straight
Brake hose color	1	Black	Black	Black	Black	Black	Black
(Kit)	2	-	-	White	-	-	-
J-Kit spec	(for OEM)	1	1	1	1		1
ICE TECHNOLOGIE	S pad compatible	1	1	1	1		1
cali	per Standard 1	K03S Resin (w/o fin)	D03S Resin (w/o fin)	D01S Resin	G03S Resin	D03S Resin	G02S Resin,
		K04S Metal (w/o		D03S Resin		Dossition	G03S Resin J02A Resin **
Pad	Standard 2	fin)	N03A Resin (w/ fin)  D02S Metal (w/o	D02S Metal H01A Resin	J03A Resin		J03A Resin **
	Option 1	LO3A Resin (w/ fin)	fin)	H03A Resin	G04S Metal	D02S Metal	G04S Metal **
	Option 2	L04C Metal (w/ fin)	N04C Metal (w/ fin)	-	-	-	-
	10 mm mount	-	-	-		-	-
	15 mm mount	-	-			-	-
Fixing bolt Spec for rear mount	20 mm mount	1	-	-		-	-
	25 mm mount	1	-	-	-	-	-
	30 mm mount	1	-	-	-	-	-
	35 mm mount	-	-	-	-	-	-
Recommended brake lever		BL-M7100	BL-M7100	BL-M640	BL-M6100	BL-M6100	BL-M6100 BL-MT501 BL-T6000
Recommended o	disc brake rotor	SM-RT70	SM-RT70	SM-RT66	SM-RT54* SM-RT56* SM-RT64 SM-RT66	SM-RT54* SM-RT56* SM-RT64 SM-RT66	SM-RT64 SM-RT66 SM-RT54 SM-RT56
	140 mm (SS)	1	1	1	1	1	1
Compatible Broke	160 mm (S)	1	1	1	1	1	1
Compatible Brake Rotor Size	180 mm (M)		1	1	1	1	1
	203 mm (L)		1	1	1	1	1
0	il	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY	BLEEDING	1	-	1	1	1	1
Moun	t type	Flat mount	Post-type	Post-type	Post-type	Post-type	Post-type
Pist		2	4	4	2	4	2
Piston n	naterial	Ceramic	Ceramic	Ceramic	Resin	Ceramic	Resin
	MONO-BODY	-	-	-	-	-	-
Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
'	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Caliper fixing bolt	Tool size	4 mm	5 mm	5 mm	5 mm	5 mm	5 mm
camper fixing boil	Anti loosen method	Bolt fix pin/Snap ring	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		Pad axle	Pad axle	Split pin	Split pin Stainless Steel	Split pin Stainless Steel	Split pin (stainless steel)
Average weight (g) (l w/ 160 mm recomr rotor, w/ lock ring, bolts, w/ l	kit for front 800 mm, nended disc brake w/o adapter, w/ 2 resin pad)	443	444	314 **	-	-	-
No	te	For rear only.	-	** Single item weight	*: Only compatible with resin pad	*: Only compatible with resin pad	J-Kit spec available  * T6000 kit only  ** M6000 kit only  *** Both M6000 kit and T6000 kit

Ser	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	BR-MT520	BR-MT500	BR-MT420	BR-MT410	BR-MT400	BR-MT200
	1	Black	Black	Black	Black (SHIMANO logo)	Black	Black
Color	2	-	-	-	-	Silver	-
	3	-	-	-	-	-	-
Brake	type	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake h	ose (Kit)	SM-BH90-SS	SM-BH59-JK-SS	SM-BH90-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose	joint	Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color	1	Black	Black	Black	Black	Black	Black
(Kit)	2	-	-	-	-	-	-
J-Kit spec	(for OEM)	1	✓	1	✓	1	✓
ICE TECHNOLOGIE cali	S pad compatible per	-	-	-	-	-	-
	Standard 1	D03S resin	B01S resin	D03S Resin	B01S Resin	B01S Resin	B01S Resin
Pad	Standard 2	D02S Metal	-	D02S Metal		-	-
rdū	Option 1	-	-	-		-	-
	Option 2	-	-	-	-	-	-
	10 mm mount	-	-	-	-		-
	15 mm mount	-	-	-	-	-	-
Fixing bolt Spec for rear mount	20 mm mount	-	-	-	-	-	-
rear mount	25 mm mount	-	-			-	-
	30 mm mount	-	-	-		-	-
	35 mm mount	-	-		-	-	-
Recommended brake lever		BL-MT501	BL-MT500	BL-MT401 BL-MT402-3A	BL-M4100	BL-MT400 BL-MT401 BL-MT402-3A	BL-MT201 BL-MT200
Recommended	disc brake rotor	SM-RT70	SM-RT54 SM-RT56	SM-RT30 * SM-RT54 * SM-RT56 * SM-RT64	SM-RT30* SM-RT54* SM-RT56*	SM-RT30 SM-RT54 SM-RT56	SM-RT10 SM-RT26
	140 mm (SS)	1	-	1	-	-	-
Compatible Brake	160 mm (S)	1	1	1	1	1	1
Rotor Size	180 mm (M)	1	1	1	1	1	1
	203 mm (L)	1	-	1	1	-	-
O	il	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY	BLEEDING	1	1	1	1	1	1
Moun	t type	Post-type	Post-type	Post-type	Post-type	Post-type	Post-type
Pis	ton	4	2	4	2	2	2
Piston r	naterial	Ceramic	Resin	Resin	Resin	Resin	Resin
	MONO-BODY		-	-	-	-	-
Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Caliper fixing bolt	Tool size	5 mm	5 mm	5 mm	5 mm	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		Split pin	Split pin (stainless steel)	Split pin	Split pin Stainless Steel	Split pin	Split pin
Average weight (g) ( w/ 160 mm recom rotor, w/ lock ring, bolts, w/	kit for front 8 <mark>00 m</mark> m, mended disc brake w/o adapter, w/ 2 resin pad)	-	-	-	-	-	-
No	ote	-	-	* Only compatible with resin pad	* Only compatible with resin pad	-	-

# Brake (Hydraulic Disc Brake)

Ser	ries	SHIMANO	
Mode	el no.	BR-UR300	
	1	Black	
Color	2	-	
	3	-	
Brake	type	Hydraulic disc brake	
Brake h	ose (Kit)	SM-BH59-JK-SS	
Hose	joint	Straight	
Brake hose color	1	Black	
(Kit)	2	-	
J-Kit spec	(for OEM)	1	
ICE TECHNOLOGIE cali	ES pad compatible per	-	
	Standard 1	B01S Resin	
Pad	Standard 2	-	
	Option 1	-	
	Option 2	-	
	10 mm mount	1	
	15 mm mount	✓	
Fixing bolt Spec for	20 mm mount	✓	
réar mount	25 mm mount	✓	
	30 mm mount	1	
	35 mm mount	✓	
Recommende	d brake lever	BL-MT201 BL-MT200	
Recommended	disc brake rotor	SM-RT10 SM-RT26	
	140 mm (SS)	-	
Compatible Brake	160 mm (S)	✓	
Rotor Size	180 mm (M)	1	
	203 mm (L)	-	
О	oil	SHIMANO Mineral	
ONE WAY	BLEEDING	1	
Moun	t type	Flat mount	
Pist	ton	2	
Piston r	naterial	Resin	
	MONO-BODY	-	
Caliper	Material	Aluminum	
	Finish	Painted	
	Material	Steel	
Caliper fixing bolt	Tool size	5 mm	
	Anti loosen method	Snap ring, bolt fix pin	
Pad n	nount	Split pin	
Average weight (g) ( w/ 160 mm recome rotor, w/ lock ring, bolts, w/	kit for fro <mark>nt 800</mark> mm, mended disc brake w/o adapter, w/ 2 resin pad)	•	



SLMT

SMSL

BL

BL

) I

---

R

20

\_\_\_

EC

SMCD

SMCR

BB

DD

CS

ПВ

Н

FH

WH

CI-DECK

Note

# Brake (Mechanical Disc Brake) Brake (V-BRAKE)

Sei	ries	SHIMANO	SHIMANO TOURNEY TX	
Mode	el no.	BR-M375	BR-TX805	
	1	Black	Black	
Color	2	-	-	
	3	-	-	
Brake	type	Mechanical disc brake	Mechanical disc brake	
ICE TECHNOLOGIE cali	ES pad compatible per	-	-	
	Standard 1	B01S Resin	B01S Resin	
DI	Standard 2	-	-	
Pad	Option 1	-	-	
	Option 2	-	-	
Recommende	d brake lever	V-BRAKE BL (1.5-2.5 finger)	V-BRAKE BL (1.5-2.5 finger)	
Recommended	disc brake rotor	SM-RT10, SM-RT30, SM-RT26	SM-RT10, SM-RT26	
Mount type (availal standard mount w	ole for international ith mount adapter)	Post-type	Post-type	
Pis	ton	1	1	
Piston r	naterial	-	-	
	MONO-BODY	-	-	
Caliper	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
	Material	Steel	Steel	
Caliper fixing bolt	Tool size	5 mm	5 mm	
	Anti loosen method	Snap ring	Snap ring	
Pad n	nount	Split pin	Split pin	
Average v	weight (g)	-	-	
No	ote			

Sei	ries	SHIMANO DXR
Mode	el no.	BR-MX70
	1	Series color
Color	2	-
	3	-
Brake	type	V-BRAKE
	Standard 1	\$70C
Brake shoe	Standard 2	-
brake snoe	Option 1	M70T4
	Option 2	М70Т3
Cartridge s	hoe holder	1
Arch siz	ze (mm)	103
Spacer type	X type	1
Spacer type	Y type	1
Compatible lead	45/90/135	
Sleeve & B	1	
	Material	Aluminum
V-arm/Caliper	Finish	Anodized
	Light weight link	✓
Cover	Material	Aluminum
Cover	Finish	Anodized
Fixing bolt length	16	✓
(mm)	25	1
	Material	Stainless steel
Fixing bolt	Finish	Plated
	Chamfered bolt	1
POWER MO	ODULATOR	✓ (option SM- PM70)
Linear	spring	1
Stainless cab	le fixing bolt	1
Average v	weight (g)	184
No	ote	

SL

SLMT

SIVISL

BL

BL

ST

FD

BR

SMCD

SIVICR

ВВ

ВВ

CS

MF

НВ

НВ

FH

FH

# Crankset

Series		XTR	XTR	XTR	XTR	XTR	SHIMANO DEORE XT
Model no.		FC-M9100-2	FC-M9120-B2	FC-M9100-1	FC-M9120-1	FC-M9130-1	FC-M8100-2
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	. 2	-	-	-	-	-	-
Rear s		12 (Front double) HG 12-speed	12 (Front double) HG 12-speed	12 UC 12 speed	12 UC 12 speed	12 UC 12 speed	12 (Front double)
Compatil Chain lir		48.8	51.8	HG 12-speed 52	HG 12-speed 52	HG 12-speed 56.5	HG 12-speed 48.8
O.L.DTh		142	148	142, 148	142, 148	157	142
O.L.DQR/		135	141	135, 141	135, 141	-	135
P.C.D.		Direct	Direct	Direct	Direct	Direct	Direct
Spider/G		4	4	4	4	4	4
Chainring co		38-28T	38-28T	30T, 32T, 34T, 36T, 38T		30T, 32T, 34T	36-26T
Q-facto	` '	162	168	162	168	171	172
	165.0 167.5	-	-	-	<b>√</b>	<b>√</b>	-
1	170.0	-	-	-	-	-	-
Crank arm length	170.0	-		-	-	-	-
(mm)	175.0	1	1	1	1	<b>A J</b>	1
	177.5	-	-	-	-		-
	180.0	-	-	-	-	-	1
	With bash guard	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-		-
	Without chain/bash guard	✓	✓	1	✓	1	✓
HOLLOV		1	1	1	1	1	<b>△</b> ✓
2-PIECE C		-	-	-	-	-	-
HOLLOWTEC	H crank arm	-	-	-	-		-
OCTA	LINK	-	-	-	-	-	-
HOLLO		-	-	-	-	-	-
Compatible bottom	Outboard	✓	<b>√</b>	1	1	<b>✓</b>	✓
bracket type	OCTALINK	-	-	-	-	-	-
Recommended bottom bracket	Square	- CM DDO2	- CM DDO2	CM DDO3	CM DDO2	- CNA DDO2	- DD MTOOO
	Threaded (normal) Threaded (E-type)	SM-BB93 -	SM-BB93	SM-BB93	SM-BB93	SM-BB93	BB-MT800
	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	BB-MT800-PA
	Threaded (normal)	-	-		-	-	-
Axle length of BB- UN/ES (mm)	Threaded (E-type)	-	=	-	-	-	=
011,25 ()	Threaded (chain case)	-	-	-	-	-	-
Threaded bottom	68 mm	✓	/	/	1	<b>√</b>	<b>√</b>
bracket shell width	73 mm	✓		1	1	✓	1
Chair assa	83 mm	-	-	-	-	-	-
Chain case	Material	- Aluminum	- Aluminum	- Aluminum	Aluminum	Aluminum	- Aluminum
Crank arm	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Crank axle	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
Spiaci aiiii	Finish	-	-	-	-	-	-
Spider arm cover	Material		-	-	-	-	-
•	Finish Material	Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aliminum	- Aluminum
Outer ring	Finish	Aluminum Plated	Aluminum Plated	Aluminum Plated	Aluminum Plated	Plated	Aluminum Anodized
	Material	- I lateu	- lateu	- iateu	- inteu	-	- Allouizeu
Middle ring	Finish		-	-	-	-	-
lanar de e	Material	Aluminum	Aluminum	-	-	-	Steel
Inner ring	Finish	Plated	Plated	-	-	-	Painted
Outer/middle ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
fixing bolt	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing bolt	Material	Aluminum	Aluminum	-	-	-	Aluminum
Stainless chain g	Finish	Anodized	Anodized -	-	-	-	Anodized -
Stainless chain g Crank fixing l		-	-	-	-	-	-
Crank fixing i	Joil Included		<u> </u>	▼ 551 (38T)	569 (38T)	<u> </u>	<b>'</b>
Average weight (g) (175 mm, w/o bottom bracket)		597	616	551 (38T) 543 (36T) 544 (34T) 531 (32T) 528 (30T)	569 (361) 561 (36T) 562 (34T) 548 (32T) 545 (30T)	577 (34T) 563 (32T) 560 (30T)	650
No	te	-	-	-	-		

WH

CI-DECK

Color	Ser	ries	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX	SLX
Compatible chain	Mode	el no.	FC-M8120-B2	FC-M8100-1	FC-M8120-1	FC-M8130-1	FC-M7100-2	FC-M7120-B2
Rear paeds	Color		Series color	Series color	Series color	Series color	Series color	Series color
Compatible chain   Not 12-speed   His 12-speed			- 12 (Front double)				12 (Front double)	12 (Frant double)
Chain line (mm)								
O.L.D. Thru (mm)								
O.L.D. QR/Not (mm)								
P.C.D. (mm)			·					
Chainring combination   36-26T   281, 307, 271, 347, 36T   281, 307, 327, 347, 36T   281, 307, 327, 347, 36T   381, 34T   39-26T   38-26T   38-26			Direct		Direct	Direct	Direct	Direct
Crank arm length	Spider/G	ear arms				4		
165.0								
Crank arm length (min)  177.00	Q-facto							
Crank arm length (mm)								
Transport								
Compatible bottom   Contains   BB-MT800	Crank arm length		-					-
177.5								
180.0				-				-
Optional chain guard								
Optional chain guard			-	-				
Without chain/ash   Surface   Surf	Ontional shala annous							
## HOLLOWTECH CARKSET	Optional chain guard	Without chain/bash	1	1	1	1		1
PRINCE CRANKSET	HOLLOV							
OCTALINK	2-PIECE C	RANKSET	-	-	-	-	-	-
Compatible bottom bracket processed (Compatible bottom bracket) (Compatible bracket) (Compatib	HOLLOWTEG	H crank arm	-	-	-	-	-	-
Compatible bottom   Gracket type			-	-	-	-	- 1	-
Compatible bottom bracket   Square	HOLLO							
Bracket type	Compatible bottom		✓	1		1	<b>✓</b>	-
Threaded (Internal)			-	-	-	·	-	
Threaded (Chain case)								
Threaded (Ichain case)   -			BB-MT800	BB-MT800	BB-MT800		BB-MT800	BB-MT800
Press-fit   BB-MT800-PA   BB	Recommended		-	-	-	-	-	-
Axle length of BB-UN/ES (nm)	bottom bracket		- DD MTQ00 DA	PP MTQOO DA	DD MTS00 DA	DD MTQOO DA	DD MTSOO DA	
Average weight (a)   Threaded (E-type)   -				- BB-W1000-FA	- BB-W11600-FA	- BB-W17800-FA		
Threaded (brain case)  Threaded (brain case)  68 mm  7	Axle length of BB-		-	-			-	-
Threaded bottom bracket shell width 73 mm	UN/ES (mm)		-	-		-	-	-
Threaded bottom bracket shell width 83 mm			1		1	1	1	1
Chain case compatible	Threaded bottom	73 mm		1		1	1	1
Crank arm Material Aluminum Aluminum Aluminum Aluminum Aluminum Aluminum Finish Anodized Steel Steel Steel Steel Steel Finish Plated Pla	bracket Sileii Width	83 mm	-	-	-	-	-	-
Crank arm   Finish   Anodized   Anodized   Anodized   Anodized   Anodized   Anodized   Anodized   Steel   St	Chain case	compatible	-	-	-	-	-	-
Crank axle	Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank axie	Crank ann							
Spider arm   Material   -   -   -   -   -   -   -   -   -	Crank axle							
Spider arm   Finish				_				
Spider arm cover Finish	Spider arm				· ·			
Outer ring    Material   Aluminum   Steel (teeth), CFRP (body), Aluminum (arm)	•		-					
Material   Aluminum   Steel (teeth), CFRP (body), Aluminum (arm)	Spider arm cover					-	-	
Finish	Out of the second			(body), Aluminum	(body), Aluminum	(body), Aluminum	Aluminum	
Inner ring   Material   Steel   -   -   -   -   Steel   Stee	Outer ring	Finish	Anodized	Painted (teeth),	Painted (teeth),	Painted (teeth),	Painted	Painted
Inner ring	Middle rina		V-	-	-	-		
Cank fixing bolt   Cank fixing								
Outer/middle ring fixing bolt         Material Finish         Aluminum         Aluminum         Aluminum         Aluminum         Aluminum         Aluminum         Aluminum         Aluminum         Anodized         Anodized         Anodized         Anodized         Anodized         Anodized         Anodized         Anodized         Anodized         -         -         Anodized         -         -         Anodized         -         -         -         Anodized         - <t< td=""><td>Inner ring</td><td></td><td></td><td>-</td><td>-</td><td>-</td><td></td><td></td></t<>	Inner ring			-	-	-		
Finish	Outor/middle ::ir ::			Δluminum	Δluminum	Δluminum		
Inner ring fixing bolt   Material   Aluminum   -   -   -   Aluminum   Stainless steel	fixing bolt							
Stainless chain guard fixing bolt   Stainless chain guard fixing bolt included   Stainless chain guard fixing bolt inc	_ ·							
Stainless chain guard fixing bolt  Crank fixing bolt included  Average weight (g) (175 mm, w/o bottom bracket)  662  651  662  663  664  662  665  660  662  660  662  660  660	Inner ring fixing bolt							
Average weight (g) (175 mm, w/o bottom bracket)  651 (36T) 660 (36T) 668 (36T) 650 (34T) 650 (34T) 650 (34T) 620 (32T) 628 (32T) 636 (32T) 639 (30T) 639 (30T) 668 (28T) 616 (28T) 624 (28T)	Stainless chain o			-	-	-	-	-
Average weight (g) (175 mm, wo bottom bracket)  662  633 (34T)  620 (32T)  620 (32T)  638 (32T)  630 (30T)  630 (30T)  639 (30T)  639 (30T)  639 (30T)  630 (28T)  630 (28T)  630 (28T)	Crank fixing	bolt included	1	1	1	1	1	1
	Average weight (g) (	175 mm, w/o bottom	662	633 (34T) 620 (32T) 622 (30T)	642 (34T) 628 (32T) 630 (30T)	650 (34T) 636 (32T) 639 (30T)	673	684
Note	No	te		, , ,	, . ,	, ,		

SL

SLMT

SIVISL

BL

BL

ST

ST

RD

FD

BR

BR

BR

SMCD

SIVICR

ВВ

ВВ

CS

MF

НВ

НВ

FH

FH

WH

# Crankset

Ser	ries	SLX	SLX	SLX	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Mode	el no.	FC-M7100-1	FC-M7120-1	FC-M7130-1	FC-M6100-1	FC-M6120-1	FC-M6130-1
C.I	1	Series color	Series color	Series color	Series Color	Series Color	Series Color
Color	2	-	-	-	-	-	-
Rear s	peeds	12	12	12	12	12	12
	ble chain	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
Chain li		52	55	56.5	52	55	56.5
O.L.DTI		142, 148	148	157	142, 148	148	157
O.L.DQR		135, 141	141	-	135, 141	141	-
P.C.D.		Direct	Direct	Direct	Direct	Direct	Direct
	ear arms	4	4	4	4	4	4
Chainring o		30T, 32T, 34T	30T, 32T, 34T 178	30T, 32T, 34T 181	30T, 32T 172	30T, 32T 178	30T, 32T 181
Q-iacit	165.0	172 ✓	1/6	√	-	-	-
	167.5	-	-	-	-	-	<u>-</u>
	170.0	1	1	1	1	1	1
Crank arm length	172.5	-	-	-	-	-	-
(mm)	175.0	7	7	-	1		1
	177.5	-	-	-	-	-	-
	180.0		-	-			
	With bash guard	-	-	-	-	-	-
Sand and the first	With chain guard	-	-	-	-	-	-
Optional chain guard	Without chain/bash						
	guard	1	1	1	•	1	✓
HOLLOV	VTECH II	✓	1	1	-	-	-
2-PIECE C	RANKSET	-	-	-	1	<b>\</b>	1
HOLLOWTEC	H crank arm	-	-	-	-	-	-
OCTA	LINK	-	-	-	-	-	•
HOLLO\	NGLIDE	-	-	-	-	-	-
C	Outboard	✓	1	1	1		✓
Compatible bottom bracket type	OCTALINK	-	-	-	-	-	-
Didentity be	Square	-	-			-	-
	Threaded (normal)	BB-MT800	BB-MT800	BB-MT800	SM-BB52	SM-BB52	SM-BB52
Recommended	Threaded (E-type)	-	-	-	-	-	-
bottom bracket	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-	Threaded (normal)	-	-		-	-	-
UN/ES (mm)	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded bottom	68 mm	1		1	1	1	1
bracket shell width	73 mm	<b>√</b>	<u> </u>	1	1	✓	1
	83 mm	-	-	-	-	-	-
Chain case		-		-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish				-	-	-
	Matarial						-
Spider arm cover	Material Finish		-	-	-		
Spider arm cover	Material Finish	-	-	-	-	Steel (teeth) CERR	- Steel (teeth) GERP
Spider arm cover		Steel (teeth), GFRP (body),				- Steel (teeth), GFRP (body),	Steel (teeth), GFRP
Spider arm cover Outer ring	Finish	Steel (teeth), GFRP (body), Aluminum(arm)	Steel (teeth), GFRP (body), Aluminum(arm)	- Steel (teeth), GFRP (body), Aluminum(arm)	- Steel (teeth), GFRP (body), Aluminum(arm)	(body), Aluminum(arm)	Steel (teeth), GFRP (body), Aluminum(arm)
•	Finish Material	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth),	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth),	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth),	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth),	(body), Aluminum(arm) Painted (teeth),	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth)
·	Finish  Material  Finish	Steel (teeth), GFRP (body), Aluminum(arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	- Steel (teeth), GFRP (body), Aluminum(arm)	- Steel (teeth), GFRP (body), Aluminum(arm)	(body), Aluminum(arm)	Steel (teeth), GFRP (body), Aluminum(arm)
•	Finish Material Finish Material	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	(body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth)
Outer ring	Finish  Material  Finish  Material  Finish	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	(body), Aluminum(arm) Painted (teeth), Painted (arm) - -	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth)
Outer ring	Finish  Material  Finish  Material  Finish  Material	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	(body), Aluminum(arm) Painted (teeth), Painted (arm) - - -	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth) Painted (arm) - -
Outer ring  Middle ring  Inner ring	Finish  Material  Finish  Material  Finish  Material  Finish	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	(body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth) Painted (arm) - - -
Outer ring  Middle ring  Inner ring  Outer/middle ring	Finish  Material  Finish  Material  Finish  Material  Finish  Material	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm) Aluminum	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm) Aluminum	(body), Aluminum(arm) Painted (teeth), Painted (arm) Aluminum	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth) Painted (arm) - - - - Aluminum
Outer ring  Middle ring  Inner ring	Finish  Material  Finish  Material  Finish  Material  Finish  Material  Finish	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm) Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm) Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	(body), Aluminum(arm) Painted (teeth), Painted (arm) Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth) Painted (arm) - - -
Outer ring  Middle ring  Inner ring  Outer/middle ring fixing bolt	Finish  Material  Finish  Material  Finish  Material  Finish  Material  Finish  Material  Finish  Material	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)  Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)  Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)  Aluminum Anodized	(body), Aluminum(arm) Painted (teeth), Painted (arm) Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth) Painted (arm) Aluminum Anodized
Outer ring  Middle ring  Inner ring  Outer/middle ring fixing bolt  nner ring fixing bolt	Finish  Material  Finish  Material  Finish  Material  Finish  Material  Finish  Material  Finish	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)  Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)  Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)  Aluminum Anodized	(body), Aluminum(arm) Painted (teeth), Painted (arm)  Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth) Painted (arm) Aluminum Anodized
Outer ring  Middle ring  Inner ring  Outer/middle ring fixing bolt  nner ring fixing bolt  Stainless chain o	Finish  Material  Finish	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm) Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)  Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm) Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm) Aluminum Anodized	(body), Aluminum(arm) Painted (teeth), Painted (arm)  Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth) Painted (arm) Aluminum Anodized
Outer ring  Middle ring  Inner ring  Outer/middle ring fixing bolt  Inner ring fixing bolt  Stainless chain of Crank fixing	Finish  Material  Finish	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)  Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)  Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)  Aluminum Anodized	(body), Aluminum(arm) Painted (teeth), Painted (arm)  Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth) Painted (arm) Aluminum Anodized
Outer ring  Middle ring  Inner ring  Outer/middle ring fixing bolt  Inner ring fixing bolt  Stainless chain o	Finish  Material  Finish	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm) Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm)  Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm) Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm) Aluminum Anodized	(body), Aluminum(arm) Painted (teeth), Painted (arm)  Aluminum Anodized	Steel (teeth), GFRP (body), Aluminum(arm) Painted (teeth), Painted (arm) Aluminum Anodized

CI-DECK

Ser	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	XTR	XTR
Mode	el no.	FC-MT610-2	FC-MT610-B2	FC-MT510-1	FC-MT511-1	FC-M9000-1	FC-M9000-2
Color	1	Black	Black	Black	Black	Series color	Series color
	2	-	-	-	-	-	-
Rear s Compati		12 HG 12-speed	12 HG 12-speed	12 HG 12-speed	12 HG 12-speed	11 HG-X11	11 HG-X11
Chain lii		48.8	51.8	52	52	50.4	48.8
O.L.DTI		142	148	142, 148	142, 148	142	142
O.L.DQR		135	141	135, 141	135, 141	135	135
P.C.D.		Direct	Direct	96	96	96	96/64
Spider/G	ear arms	4	4	4	4	4 ***	4 ***
Chainring o	ombination	36-26T	36-26T	30T, 32T, 34T	30T, 32T	36T, 34T, 32T, 30T (SM-CRM91)	38-28T 36-26T 34-24T
Q-facto		172.9	178.9	177	178.5	158	158
	165.0	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
Crank arm length	170.0 172.5	-	-	-	-	<b>/</b>	-
(mm)	175.0	-	- -	- ·	· ·	-	-
	177.5	-	<u> </u>	-	-	-	-
	180.0	-	-	-	-	-	-
	With bash guard	-	-	-	-		-
Ontional chain guard	With chain guard	-	-	-	-	-	-
Optional chain guard	Without chain/bash	1	1	1		1	1
	guard		-			,	-
HOLLOV 2-PIECE C			- J	- /	-	1	-
HOLLOWTEG		-		-			-
OCTA		-	-	-	-	-	-
HOLLO		-				<b>/</b> *	1
HOLLO	Outboard	1	J	1	1	1	7
Compatible bottom	OCTALINK	-	-			-	-
bracket type	Square	-	-	-		-	-
	Threaded (normal)	SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB93	SM-BB93
Recommended	Threaded (E-type)	-	-	-	·	-	-
bottom bracket	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	SM-BB94-41A	SM-BB94-41A
Axle length of BB-	Threaded (normal)	-	-	-	-	-	-
Axle length of BB- UN/ES (mm)	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case) 68 mm	-	1		-	-	-
Threaded bottom	73 mm	1	1	1	1	7	1
bracket shell width	83 mm	-	·				-
Chain case		-		-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank arm	Finish	Painted	Painted	Painted	Painted	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
Craffic axie	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	Aluminum	-	-	-
	Finish	Painted	Painted	Painted	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
<u> </u>	Finish			- Steel (30T, 32T)	-	-	-
	Material	Aluminum	Aluminum	Steel + GF composite (34T)	Steel	Aluminum	Titanium, Aluminum, CFRP
Outer ring	Finish	Painted	Painted	Painted (30T, 32T) Plated (34T, teeth)	Painted	Anodized	Anodized
	Material	-	-	-	-	-	-
Middle ring	Finish	-	-	-	-	-	-
Innov vice	Material	Steel	Steel	-	-	-	Aluminum
Inner ring	Finish	Painted	Painted	-	-	-	Plated
Outer/middle ring	Material	Aluminum	Aluminum	Stainless steel	Stainless steel	Aluminum	Aluminum
fixing bolt	Finish	Anodized	Anodized	Painted	Painted	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	-	-	-	Aluminum
	Finish quard fixing bolt	Painted -	Painted -	-	-	-	-
	bolt included	-	-	-	-	-	-
Average weight (g) (		-	-	-	-	616 (36T) 600 (34T) 598 (32T) 586 (30T)	649 (38-28T) 631 (36-26T) 611 (34-24T)
No	ote					* 36T/34T is hollow, 32T/30T is not hollow ** 32T/30T is Stainless steel/Aluminum *** Spider arm angle is special	*** Spider arm angle is special

SL

SLMT

SIVISL

BL

BL

ST

ST

RD

FD

BR

BR

BR

SMCD

SIVICR

ВВ

ВВ

CS

MF

НВ

НВ

FH

FH

WH

CI-DECK

# Crankset

Ser	ies	XTR	XTR	XTR	XTR	XTR	SHIMANO DEORE XT
Mode	el no.	FC-M9020-1	FC-M9020-B1	FC-M9020-2	FC-M9020-B2	FC-M9020-3	FC-M8000-B1
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Rear s	peeds	11	11	11	11	11	11
Compatil	ole chain	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11
Chain lir	ne (mm)	50.4	53.4	48.8	51.8	50	53.4
O.L.DTl	rru (mm)	142	148	142	148	142	148
O.L.DQR	/Nut (mm)	135	141	135	141	135	141
P.C.D.	(mm)	96	96	96/64	96/64	96/64	96
Spider/G	ear arms	4 ***	4 ***	4 ***	4	4 ***	4
Chainring o	ombination	36T, 34T, 32T, 30T (SM-CRM91)	32T, 30T	38-28T 36-26T 34-24T	36-26T 34-24T	40-30-22T	32T, 30T (SM-CRM81)
Q-facto	or (mm)	168	174	168	174	168	176
	165.0	✓	=	1	-	1	-
	167.5	-	-	-	-	-	-
	170.0	✓	✓	✓	✓	<b>√</b> ✓	1
Crank arm length	172.5	-	-	-	-	-	-
(mm)	175.0	✓	✓	✓	✓	1	✓
	177.5	-	-	-	-	-	-
	180.0	✓	-	1	- (	✓	✓ (32T) - (30T)
	With bash guard	-	-	-		-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain/bash	✓	✓	✓	1	1	1
HOLLOV	guard	1	1	1	1		1
2-PIECE C		<b>Y</b>	-	-	-	-	•
HOLLOWTEC		-	-	-	-		-
OCTA		-	-				-
HOLLO			-	-	-	-	-
HOLLO	Outboard	1	1			1	1
Compatible bottom	OCTALINK		-	-		-	-
bracket type	Square					-	-
	Threaded (normal)	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93	BB-MT800
Recommended	Threaded (E-type)	-	-	-	-	-	-
bottom bracket	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	BB-MT800-PA
	Threaded (normal)	-		-	-	-	-
Axle length of BB- UN/ES (mm)	Threaded (E-type)	-	-		-	-	-
UN/E3 (IIIII)	Threaded (chain case)	-	-	-	-	-	-
	68 mm	✓	1	1	1	1	1
Threaded bottom bracket shell width	73 mm	1	/	1	1	1	✓
Diacket Sileli Widti	83 mm	-	-	-	-	-	-
Chain case	compatible	-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank arm	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
Crank axic	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material		-	-	Aluminum	-	Aluminum
	Finish	-	•	-	Anodized	-	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-		- Titanian Alamina	-	-	-
Outer ring	Material	Aluminum	Aluminum	Titanium, Aluminum, CFRP	Ti + Aluminum	Aluminum, CFRP	Steel +CF composite
•	Finish	Anodized	Anodized	Anodized	-	Anodized	Plated (teeth), Painted (body)
	Material		-	-	-	Titanium/CFRP	-
Middle ring	Finish	-	-	-	-	Shot Blasting	-
	Material		-	Aluminum	Aluminum	Aluminum	-
Inner ring	Finish	-	-	Plated	Plated	Plated	-
Outer/middle ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
fixing bolt	Finish		-	-	Anodized	-	Anodized
Inner ring fixing bolt	Material	-	=	Aluminum	Aluminum	Aluminum	-
	Finish	-	-	-	Anodized	-	-
Stainless chain g		-	-	-	-	-	-
Crank fixing	bolt included	✓	✓	✓	✓	✓	✓
Average weight (g) ( brac	175 mm, w/o bottom ket)	620 (36T) 603 (34T) 586 (32T) 578 (30T)	601 (32T) 593 (30T)	667 (38-28T) 649 (36-26T) 629 (34-24T)	664 (36-26T) 645 (34-24T)	656	698.0 (36T)
No	ite	* 36T/34T is hollow, 32T/30T is not hollow ** 32T/30T is Stainless steel/ Aluminum *** Spider arm angle is special	- Chain line 3 mm outboard, - It requires special dimension of frame which cassette position and front derailleur mount position are 3 mm outboard Only E type and D type front derailleur are compatible with the special frame.	*** Spider arm angle is special.		*** Spider arm angle is special.	- Chain line 3 mm outboard, - It requires special dimension of fram which cassette position and front derailleur mount position are 3 mm outboard., - Only E type and D type front derailleur are compatible with the special frame.

59

Ser	ies	SHIMANO DEORE XT	SLX	SLX	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Mode	el no.	FC-M8000-B2	FC-M7000-11-1	FC-M7000-11-2	FC-M5100-1	FC-M5100-2	FC-M5100-B2
	1	Series color	Series color	Series color	Series Color	Series Color	Series Color
Color	2	=	-	=	=	=	-
Rear s	peeds	11	11	11	11 / 10	11	11
Compati	ble chain	HG-X11	HG-X11	HG-X11	HG-X11 11-speed HG-X 10-speed	HG-X11 11-speed	HG-X11 11-speed
Chain li		51.8	50	48.8	52	48.8	51.8
O.L.DTI		148	142	142	142, 148	142	148
O.L.DQR P.C.D.		141 96/64	135 96	135 96/64	135, 141 96	135 96/64	141 96/64
Spider/G		4	4	4	4	4	4
Chainring c	ombination	36-26T 34-24T	34T, 32T, 30T (SM- CRM70)	38-28T 36-26T 34-24T	30T, 32T	36-26T	36-26T
Q-facto	or (mm)	176	176	176	178.5	178.5	178.5
	165.0	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
Cuanti aum lamenth	170.0 172.5	-	-	-	-	-	<b>√</b>
Crank arm length (mm)	175.0	-	-	-	-	1	- -
	177.5	-	-	-	-	-	-
	180.0	✓ (36-26T) - (34-24T)	-	-		•	-
	With bash guard	-	-	-		-	-
Optional chain guard	With chain guard Without chain/bash	-	-	-	-	-	-
	guard	✓	1	✓	<b>V</b>	V	1
HOLLOV		✓	1	1	-	-	-
2-PIECE C		-	-	-	1	-	✓
HOLLOWTED		-	-	-			-
HOLLO		-	-			-	-
	Outboard	✓	1	1	1	1	✓
Compatible bottom bracket type	OCTALINK	-	-	-	-	-	-
	Square	- DD MT000	- DD MT000	- DD 14T000	-	-	-
Da samuman da d	Threaded (normal) Threaded (E-type)	BB-MT800 -	BB-MT800 -	BB-MT800	SM-BB52	SM-BB52	SM-BB52
Recommended bottom bracket	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-	Threaded (normal)	-		-	-	-	-
UN/ES (mm)	Threaded (E-type) Threaded (chain case)	-	-	-	-	-	-
	68 mm	· ·	- 1	1	1	· ·	- -
Threaded bottom bracket shell width	73 mm	1	1	1	1	1	✓
	83 mm	-	<u></u>	-	-	-	-
Chain case		-	-	-	-	-	-
Crank arm	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Painted	Aluminum Painted	Aluminum Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Crank axle	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	Aluminum	-	-	-
	Finish Material	Painted	Painted	Painted	-	-	-
Spider arm cover	Material Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum +CF composite	Steel +GF composite	Aluminum +GF composite	Steel	Steel	Steel
Outer ring	Finish	Plated (teeth), Painted (body)	Plated (teeth)	Plated (teeth)	Painted	Painted	Painted
Middle ring	Material	-	-	-	-	-	-
	Finish Material	Aluminum	-	Steel	-	Steel	Steel
Inner ring	Finish	Plated	-	Painted	-	Painted	Painted
Outer/middle ring	Material	Aluminum	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel
fixing bolt	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Inner ring fixing bolt	Material Finish	Stainless steel	-	Stainless steel	-	Stainless steel	Stainless steel
Stainless chain o	juard fixing bolt	-	-	-	-	-	-
Crank fixing		1	1	1	1	1	1
Average weight (g) (	175 mm, w/o <mark>bott</mark> om ket)	721.6 (36-26T)	721.1 (34T) 715.4 (32T) 699.3 (30T)	788.7 (28-28T) 761.4 (36-26T) 739.8 (34-24T)	-	-	-
No	ote	- Chain line 3 mm outboard, - It requires special dimension of frame which cassette position and front derailleur mount position are 3 mm outboard., - Only E type and D type front derailleur are compatible with the special frame.	w/o chainring spec available for OTC, chainring is sold separately (SM- CRM70)				

SL

SLMT

SIVISL

BL

BL

ST

ST

RD

FD

BR

BR

BR

SMCD

SIVICR

ВВ

ВВ

CS

MF

НВ

НВ

FH

FH

WH

# Crankset

Ser	ies	SHIMANO	SHIMANO	SAINT	SAINT	SHIMANO DEORE XT	ZEE
Mode	l no.	FC-MT700-B2	FC-MT600-2	FC-M820	FC-M825	FC-M785	FC-M640
Color	1	Black	Black	Series color	Series color	Black	Series color
	2	-	-	-	-	Silver	-
Rear s		11	11	10	10	10	10
Compatik		HG-X11	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Chain lir		51.8	48.8	50.4	57.9	48.8	50.4
O.L.DTh		148	142	142	150, 157	142	142
O.L.DQR/		141	135	135	-	135	135
P.C.D. Spider/G		96/64 4	96/64 4	104	104	104/64	104
3pidei/di	cai aiiiis		4			40-28T	38T, 36T, 34T (FC-
Chainring co		36-26T 34-24T	36-26T	38T, 36T, 34T (SM- CR82)	38T, 36T, 34T (SM- CR82)	38-26T 38-24T	M640/M645 chainring)
Q-facto		175	177	178	193	175	174.7
	165.0	-	-	1	1	<b>√</b>	<b>/</b>
	167.5	-	-	-	-	-	-
Crank arm length	170.0	<b>√</b>	<b>√</b>	1	1	<b>√</b>	1
(mm)	172.5	-	-	-	-	-	-
	175.0 177.5		1	-	1	-	-
}	1//.5 180.0	-	-	-	-	-	-
	With bash guard	-	-	-	-	•	-
	With chain guard	-	-	-	-		-
Optional chain guard	Without chain/bash						•
	guard	✓	1	1	1	1	1
HOLLOW	/TECH II	✓	-	1	<b>√</b>	V	-
2-PIECE CI	RANKSET	-	1	-	-	-	<b>√</b>
HOLLOWTEC	H crank arm	-	-	-	-	-	-
ОСТА		-	-	-	-	-	-
HOLLOV		-	-	-	-	- *	-
Compatible bottom	Outboard	✓	✓	<b>✓</b>	<b>V</b>	✓	1
bracket type	OCTALINK	-	-	-		-	-
	Square	-	-	-		-	-
	Threaded (normal)	BB-MT800	BB-MT800	SM-BB80	SM-BB80	-	SM-BB52
Recommended	Threaded (E-type)	-	-	-	-	-	SM-BB52
bottom bracket	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	BB-MT800-PA	BB-MT800-PA	SM-BB71-41A	SM-BB71-41C	SM-BB71-41A	SM-BB71-41A
Axle length of BB-	Threaded (normal)	-	-	-	-	-	-
UN/EŠ (mm)	Threaded (E-type) Threaded (chain case)	-	-		-	-	-
	68 mm		7	1	-	-	-
Threaded bottom	73 mm	<b>√</b>	1	1	-	1	1
bracket shell width	83 mm			-	1	-	
Chain case					-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank arm	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Crank axle	Finish	Plated	Plated	Plated	Plated	Plated	Plated
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	-
Spider arm	Finish	Painted	Painted	Painted	Painted	Painted	-
Culden en	Material	-	-	-	-	-	-
Spider arm cover	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum +GF composite	Aluminum +GF composite	-	-	Aluminum	-
	Finish	Plated (teeth)	Anodized	-	-	Anodized	-
Middle ring	Material	Y -	-	Aluminum	Aluminum	-	Aluminum
	Finish		-	Anodized	Anodized	-	Anodized
Inner ring	Material	Aluminum	Steel	-	-	Aluminum	-
	Finish	Plated	Painted	- A1	- Al.,	Plated	- Ctainless steel
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Aluminum	Aluminum	Aluminum	Stainless steel
nang bon	Finish	Stainless steel	Stainless steel	Anodized -	Anodized -	Anodized Stainless steel	-
Inner ring fixing bolt	Material Finish	Stainless steel	Stainless steel -	-	-	- Stainless steel	-
Stainless chain g		-	-	-	-	-	-
Crank fixing l			-	-	-	-	-
Average weight (g) (1		738.9 (36-26T) 712.4 (34-24T)	-	847 (38T) 837 (36T)	858 (38T) 849 (36T)	727.6 (40-28T) 717.6 (38-26T)	828 (38T) 817 (36T) 807 (34T)
		712.4 (34-24T)		827 (34T)	838 (34T) For 83 mm bottom	717.0 (38-201) 715.8 (38-24T)	807 (34T)
No	те				bracket shell width		

CI-DECK

Seri	ies	ZEE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO
Mode	l no.	FC-M645	FC-M6000-2	FC-M4100-2	FC-M4100-B2	FC-M617-B2	FC-MT500-2
Color	1	Series color	Series Black	Series Color	Series Color	Black	Black
	2	-	-	-	-	Silver	-
Rear s		10	10	10	10	10	10
Compatik		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X	HG-X 10-speed
Chain lin		57.9	48.8	48.8	51.8	51.8	48.8
O.L.DTh		150, 157 -	142 135	142 135	148 141	148 141	142 135
P.C.D.		104	96/64	96/64	96/64	104/64	96/64
Spider/Ge		4	4	4	4	4	4
Chainring co		38T, 36T, 34T (FC- M640/M645 chainring)	38-28T 36-26T 34-24T	36-26T	36-26T	36-22T	36-26T
Q-facto		189.7	176	178.5	178.5	176	177
	165.0	✓	-	-	-	-	-
	167.5	-	-	-	-	-	-
Crank arm length	170.0	✓	✓	✓	✓	<b>√</b>	1
(mm)	172.5	-	-	-	-	-	-
'	175.0	✓	<b>√</b>	✓	✓	1	1
	177.5	-	-	-	-	-	-
	180.0	-	-	-	-	-	-
	With bash guard	-	-	-	-	-	-
Optional chain guard	With chain guard Without chain/bash						
	guard	✓	✓	✓	<b>4</b>	J	1
HOLLOW		-	1	-	-	-	-
2-PIECE CI		✓	-	✓	J	1	✓
HOLLOWTEC		-	-	-	-	-	-
ОСТА		-	-	-	·	-	-
HOLLOV		-	-	-		-	-
Compatible bottom	Outboard	✓	<b>√</b>		V	1	<b>√</b>
bracket type	OCTALINK	-	-	-		-	-
	Square						
l <u>.</u>	Threaded (normal) Threaded (E-type)	SM-BB52 SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52 SM-BB52	SM-BB52
Recommended bottom bracket	Threaded (chain case)	JIVI-0032 -	-		_	- -	-
	Press-fit	SM-BB71-41C	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
	Threaded (normal)	-	-	-	-	-	-
Axle length of BB-	Threaded (E-type)	-		-	-	-	-
UN/EŠ (mm)	Threaded (chain case)	-	-	-	-	-	-
	68 mm	-		1	1	✓	1
Threaded bottom bracket shell width	73 mm	-	1	1	1	1	1
Didence shell width	83 mm	1		-	-	-	-
Chain case of	compatible	-	-	-	=	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank arm	Finish	Painted	Anodized	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material		Aluminum	-	-	Aluminum	Aluminum
	Finish Material	-	Painted -	-	-	Painted -	Painted -
Spider arm cover	Material Finish	-		-	-	-	-
Outer ring	Material		Aluminum +GF composite	Steel	Steel	Aluminum	Aluminum +GF composite
	Finish		Anodized	Painted	Painted	Anodized	Anodized
Middle ring	Material	Aluminum	-	-	-	-	-
	Finish	Anodized	-	-	-		-
Inner ring	Material	-	Steel	Steel	Steel	Steel	Steel
	Finish	- Ctainless steel	Painted Stainless steel	Painted Stainless steel	Painted Stainless steel	Painted Stainless steel	Painted Stainless steel
Outer/middle ring fixing bolt	Material Finish	Stainless steel	Stainless steel Painted	Stainless steel Painted	Stainless steel Painted	Stainless steel	Stainless steel
	Material		Stainless steel				
Inner ring fixing bolt	Finish		-	-	-	-	-
Stainless chain g		-	-	-	-	-	-
Crank fixing k		1	1	1	1	1	1
Average weight (g) (1		858 (38T) 847 (36T)	-	-	-	-	-
No		837 (34T) For 83 mm bottom					
L		bracket shell width					

SL

SLMT

SIVISL

BL

BL

ST

ST

RD

FD

BR

BR

BR

SMCD

SIVICR

ВВ

ВВ

CS

MF

НВ

НВ

FH

FH

WH

CI-DECK

Ser	ies	SHIMANO	SHIMANO	SHIMANO ALTUS	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	FC-MT500-3	FC-M627-B	FC-M2000	FC-MT210-3	FC-MT210-2	FC-MT210-B2
Color	1	Black	Black	Series color	Black	Black	Black
	2	-	-	-	-	-	-
Rear s		10	10	9	9	9	9
Compatil Chain lii		HG-X 10-speed 50	HG-X 10-speed 51.8	HG 9-speed 50	HG 9-speed 50	HG 9-speed 48.8	HG 9-speed 51.8
O.L.DTi		142	148	142	142	142	148
O.L.DQR		135	141	135	135	135	141
P.C.D.		96/64	104/64	Riveted	Riveted	Riveted	Riveted
Spider/G	ear arms	4	4	4	4	4	4
Chainring c	ombination	40-30-22T	36-22T	40-30-22T	44-32-22T 40-30-22T	46-30T 36-22T	36-22T
Q-facto	or (mm)	177	176	179.6	176	176	176
	165.0	-	-	✓	-	-	-
	167.5	-	-	-	-	-	-
Crank arm length	170.0	<b>√</b>	1	✓	1	✓	1
(mm)	172.5	-	-	-	-	-	-
	175.0 177.5	<b>√</b>	-	<b>√</b>	-	-	-
	180.0	-	-	-	-	-	-
	With bash guard	-	-	-	-		-
	_	1	_	1	,	✓ (46-30T)	_
Optional chain guard	With chain guard	•	-	· ·	1	- (36-22T)	-
	Without chain/bash guard	✓	✓	✓	1	1	1
HOLLOV		-	-	-	-	-	-
2-PIECE C		1	1	-	1	1	1
HOLLOWTEC		-	-		-	-	-
OCTA		-	-	-	-	-	-
HOLLO\		-	-	· •			-
Compatible bottom	Outboard	✓	1	-	<b>V</b>	✓	1
bracket type	OCTALINK Square	-	-	-		-	-
	Threaded (normal)	SM-BB52	SM-BB52	BB-UN101	BB-MT500	BB-MT500	BB-MT500
Recommended	Threaded (E-type)	SM-BB52	SM-BB52	-	-	-	-
bottom bracket	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	BB-MT500-PA	BB-MT500-PA		BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-	Threaded (normal)	-	-	LL123	-	-	-
UN/ES (mm)	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case) 68 mm	- •	-	-	-	- <b>√</b>	-
Threaded bottom	73 mm	<b>√</b>	1	1	1	1	1
bracket shell width	83 mm	-		-	-	-	-
Chain case		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank ann	Finish	Painted	Painted	Painted	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	-	Steel	Steel	Steel
	Finish Material	Plated	Plated	-	Plated -	Plated -	Plated -
Spider arm	Material Finish	Aluminum Painted	Aluminum Painted	-	-	-	-
	Material	- united	- united		Resin	Resin	Resin
Spider arm cover	Finish	-	-	-	Resin	Resin	Resin
Outer ring	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
Outer ring	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Middle ring	Material	Steel	-	Steel	Steel	-	-
	Finish Material	Plated	- Stool	Painted Steel	Painted	- Stool	- Stool
Inner ring	Material Finish	Steel Painted	Steel Painted	Painted	Steel Painted	Steel Painted	Steel Painted
Outer/middle ring	Material	Stainless steel*	Stainless steel	- rainteu	- rainteu	-	- rainted
Outer/middle ring fixing bolt	Finish	-	-	-	-	-	-
	Material	Stainless steel	Stainless steel	-	-	-	-
nner ring fixing bolt	Finish		-	-	-	-	-
Stainless chain g		-	-	-	1	-	-
Crank fixing		<b>√</b>	1		<b>√</b>	✓	1
Average weight (g) ( brac	175 mm, <mark>w/o bo</mark> ttom ket)	-	-	-	-	-	-
No	vte	* It is fixed on the threaded middle ring.	- Chain line 3 mm outboard - It requires special dimension of frame which cassette position and front derailleur mount position are 3 mm outboard - Only E type and D type front derailleur are compatible with		SHIMANO logo	-	Chain line 3 mm outboard

Ser	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	FC-MT200	FC-MT101-2	FC-MT101-B2	FC-MT101	FC-M371	FC-M315-2
	1	Black	Black	Black	Black	Black	Black
Color	2	-	-	-	-	-	-
Rear s		9	9	9	9	9	8/7
Compatil		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG for 9-speed	HG 8/7-speed
Chain lir		50	48.8	51.8	50	50	48.8
O.L.DTh O.L.DQR/	. ,	142 135	142 135	148 141	142 135	142 135	142 135
P.C.D.		Riveted	Riveted	Riveted	Riveted	Riveted	Riveted
Spider/G		4	4	4	4	4	4
Chainring co		40-30-22T	36-22T	36-22T	44-32-22T	44-32-22T	36-22T
					40-30-22T	48-36-26T	
Q-facto	or (mm) 165.0	176	179.4	179.4	179.2	180.5	179.4
	167.5	-	-	-	-	-	-
	170.0	1	1	1	1	1	1
Crank arm length	172.5	-	-	-	-	-	-
(mm)	175.0	1	1	1	1	<b>▲</b> ✓	1
İ	177.5	-	=	-	-	-	=
	180.0	-	-	-	-	-	-
	With bash guard	-	-	-	-	-	-
Optional chain guard	With chain guard	<b>√</b>	-	-	1	<b>✓</b>	-
-	Without chain/bash quard	✓	✓	✓	•	1	✓
HOLLOV		-	-	-	-	-	-
2-PIECE C		1	-	-	-	-	-
HOLLOWTEC		-	=	-	-	-	-
ОСТА		-	-	-	-	-	-
HOLLO		-	-	-	-	-	-
Compatible bottom	Outboard	✓	-	-		-	-
bracket type	OCTALINK Square	-	-	•		-	- 1
	Threaded (normal)	BB-MT500	<b>√</b> BB-UN101	BB-UN101	BB-UN101	BB-UN300	BB-UN101
Recommended	Threaded (E-type)	-	-	-	-	-	-
bottom bracket	Threaded (chain case)	-	-	-		BB-UN300-K	-
	Press-fit	BB-MT500-PA	-	-	-	-	-
Aula law with of DD	Threaded (normal)	-	LL123	LL123	LL123	LL123	LL123
Axle length of BB- UN/ES (mm)	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	LL123-K	-
Threaded bottom	68 mm 73 mm	1	1	1	1	<i>1</i>	1
bracket shell width	83 mm	-	-	-	-	-	-
Chain case		-			-	1	<u> </u>
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank arm	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank	Material	Steel	-	-	-	-	-
Crank axle	Finish	Plated	-		-	-	-
Spider arm	Material	-	-	-	-	-	-
-p um	Finish	-	-	-	-	-	-
Spider arm cover	Material		Resin	Resin	Resin	Resin	Resin
	Finish Material	- Steel	Resin Steel	Resin Steel	Resin Steel	Resin Steel	Resin Steel
Outer ring	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	-	-	Steel	Steel	-
Middle ring	Finish	Painted	-	-	Painted	Painted	-
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	-	-	-	-	-	-
TIXING BOIL	Finish	-	-	-	-	-	-
nner ring fixing bolt	Material Finish		-	-	-	-	-
Stainless chain g		-	-	-	-	-	-
Crank fixing l		1		-	✓ (Option)	-	-
					▼ (Option)		
Average weight (g) (	ket)	· -	-	-	-	-	-
No	ote	SHIMANO logo	SHIMANO logo	SHIMANO logo Chain line 3 mm outboard	SHIMANO logo	SHIMANO logo	SHIMANO logo

SL

SLMT

SIVISL

BL

BL

ST

ST

RD

FD

BR

BR

BR

SMCD

SIVICR

ВВ

ВВ

CS

MF

НВ

НВ

FH

FH

WH

CI-DECK

Ser	ries	SHIMANO	SHIMANO TOURNEY TX	SHIMANO	SHIMANO	SHIMANO	SHIMANO DXR
Mode	el no.	FC-M315-B2	FC-TX801	FC-TY501-2	FC-TY501	FC-TY301	FC-MX71
Color	1	Black	Black	Black	Black	Black	Series color
	2	8/7	Silver 8/7/6	8/7	Silver 8/7/6	8/7/6	- 1
	peeds				HG/UG for 8/7/	8/ //6 HG/UG for 8/7/	
Compati		HG 8/7-speed	HG for 8/7-speed	HG 8/7-speed	6-speed	6-speed	Single speed
Chain li		51.8	50	48.8	47.5/47.5 + t/50	47.5/47.5 + t/50	44
O.L.DTI O.L.DQR		148 141	142 135	142 135	142 135	142 135	142 135
P.C.D.		Riveted	Riveted	Riveted	Riveted	Riveted	104/64
Spider/G	ear arms	4	4	4	4	4	4
Chainring c	ombination	36-22T	48-38-28T 42-32-22T	46-30T	48-38-28T 42-34-24T	48-38-28T 42-34-24T	34T, 38T, 41T, 42T, 43T, 44T, 46T
Q-facto	or (mm)	179.4	187.9	185.5	185.5	181.5	173
	165.0	-	✓	-	1	-	✓
	167.5	-	-	-	-	-	-
Crank arm length	170.0	1	1	1	1	1	✓
(mm)	172.5 175.0	-	-	-	-	-	-
	177.5	-	-	-	-	-	-
	180.0	-	-	-	-	-	✓
	With bash guard	-	-	-	-	-	-
Optional chain guard	With chain guard Without chain/bash	-	1	1	✓ (integrated type)	✓ (integrated type)	-
	guard	✓	✓	✓	1	1	1
HOLLOV		-	-	-	-		1
2-PIECE C		-	-	-	-	-	<b>√</b>
HOLLOWTEC		-	-	-	-	-	<b>√</b>
	WGLIDE	-	-			-	-
	Outboard	-	-			-	1
Compatible bottom bracket type	OCTALINK	-	-	-		-	-
	Square	<b>√</b>	<b>√</b>	<b>V</b>	V	<b>√</b>	-
	Threaded (normal) Threaded (E-type)	BB-UN101 -	BB-UN101 -	BB-UN101 -	BB-UN101, BB-UN300	BB-UN101, BB-UN300	-
Recommended bottom bracket	Threaded (chain case)	-	BB-UN101-K		BB-UN101-K, BB-	BB-UN101-K, BB-	-
Dottom Diachet					UN300K	UN300K	
	Press-fit Threaded (normal)	- LL123	- LL1 <mark>23</mark>	- LL123	D-NL, *D-EL	D-NL, *D-EL	-
Axle length of BB- UN/ES (mm)	Threaded (E-type)	-	-	ELIZS	-	- NL, D-LL	-
ON/E3 (IIIII)	Threaded (chain case)	-	LL123-K	-	D-NL K	D-NL K	-
Threaded bottom	68 mm	√ .	1	1	1	√	<b>√</b>
bracket shell width	73 mm 83 mm	1		1	1	1	<b>√</b>
Chain case		-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank arm	Finish	Painted	Painted	Painted	Painted	Painted	Anodized
Crank axle	Material	-	-	-	-	-	Steel
	Finish Material	-	-	-	-	-	Plated Aluminum
Spider arm	Finish			-	-	-	Anodized
	Material	Resin	Resin	Resin	Resin	Resin	=
Spider arm cover	Finish	Resin	Resin	Resin	- (black)	-	-
_	Material	Steel	Steel	Steel	Painted (silver) Steel	Steel	Aluminum
Outer ring	Finish	Painted	Painted	Painted	Painted	Painted	Anodized
Middle ring	Material		Steel	-	Steel	Steel	-
imagic iliig	Finish	- Charles	Painted	-	Painted	Painted	-
Inner ring	Material Finish	Steel Painted	Steel Painted	Steel Painted	Steel Painted	Steel Painted	<u>-</u>
Outer/middle ring	Material	-	-	- Painted	- Painted	- rainted	Aluminum
fixing bolt	Finish		-	-	-	-	Anodized
nner ring fixing bolt	Material		-	-	-	-	-
-	Finish	-	-	-	-	-	-
Stainless chain g	guard fixing bolt	-	-	-	✓ (Option)	-	-
Average weight (g) (	175 mm, w/o bottom	-	-	-	▼ (Option)	-	
brac	ket)	-	-	-	-	450	765 (w/o chainring)
No	ote	SHIMANO logo, Chain line 3 mm outboard			* Bottom bracket spec. for chain line 50 mm	150 mm spec. available for 42-34-22T (Black) * Bottom bracket Spec for Chain line 50 mm	BMX racing 68 mm bottom bracket shell width

# Chain Device

Series	SHIMANO	SHIMANO	SHIMANO	SAINT
Model no.	SM-CD800-D	SM-CD800-E	SM-CD800-I	SM-CD50
Color	Black	Black	Black	Series color
Spec	Single	Single	Single	w/ One guard
Compatible chain	CN-M9100	CN-M9100	CN-M9100	9/10-speed
Chain line (mm)	52	52	52/55/56.5	50.4/57.9
Top gear teeth	30T, 32T, 34T, 36T, 38T	30T, 32T, 34T, 36T, 38T	30T, 32T, 34T, 36T, 38T	38T, 36T, 34T
Assumed rear sprocket teeth	10-45T 10-51T	10-45T 10-51T	10-45T 10-51T	11-23T, 36T
Mount	D-type	E-type	ISCG05	ISCG03 ISCG05
Rear suspension stroke	-	-	-	0 - 250 mm
Chain stay angle	63 - 75 degree	63 - 75 degree	63 - 75 degree	-
Back plate	Resin	Resin	Aluminum	Aluminum
Chainguide	Resin	Resin	Resin	Aluminum
Average weight (g)	28	25	33	-
Note				



# Chainring

Sei	ries	XTR	SHIMANO DEORE XT	SLX	SHIMANO DEORE XT	SLX	SHIMANO
Mode	el no.	SM-CRM95	SM-CRM85	SM-CRM75	SM-CRM81	SM-CRM70	SM-CR82
	1	Standard	Standard	Standard	Standard	Standard	Black
Color	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Gear	speed	1	1	1	1	1	1
	12-speed	✓	1	1	-	-	-
	11-speed	-	-	-	1	✓	-
Rear speed	10-speed	-	-	-	1	1	1
	9-speed	-	-	-	-	-	1
	Single	-	-	-	-	-	-
DYNAMIC CHAIN	I ENGAGEMENT+	✓	1	1	1	1	-
	46T	-	-	-	-	-	-
	44T	-	-	-	,	-	-
	43T	-	-	-	-	-	-
	42T	-	-	-	-		-
	41T	-	-	-	-	-	-
Chairein a ta ath	40T	-	-	-	-	-	-
Chainring teeth	38T	1	-			-	1
	36T	1	1	-	-	-	1
	34T	1	1	1	1	1	1
	32T	1	1	1	1	1	-
	30T	1	<b>✓</b>	1	1	1	-
	28T	-	<b>V</b>	-	-	-	-
	Double	-		-	-	-	-
Chain guard type	Single	-	-	-	-	-	-
	w/o Chain guard	1	1	<b>V</b>	✓	1	<b>√</b> *
P.C.D.	(mm)	-	-	-	96	96	104
Chainring	Material	Aluminum	Steel (teeth) CFRP (body) Aluminum (arm)	Steel (teeth) GFRP (body) Aluminum(arm)	Steel (teeth) CFRP (body)	Steel (teeth) GFRP (body)	Aluminum
	Finish	Plated	Painted (teeth) Anodized (arm)	Painted (teeth) Painted (arm)	Plated (teeth) Painted (body)	Plated (teeth)	Anodized
No	ote						* SM-CD50 bash guard is compatib



SL SLMT

SMSL

\_\_

ST

IID

BR

DD

FC

SMCR

ВВ

ВВ

VIF

НВ

НВ

\_\_\_

WH

CI-DECK

# Chainring

Sei	ries	SHIMANO			
Mode	el no.	SM-CR80-A			
	1	Black			
Color	2	-			
	3	-			
Gear	speed	1			
	12-speed	-			
	11-speed	-			
Rear speed	10-speed	-			
	9-speed	✓			
	Single	1			
DYNAMIC CHAIN	I ENGAGEMENT+	-			
	46T	1			
	44T	✓			
	43T	1			
	42T	✓			
	41T	1			
	40T	-			
Chainring teeth	38T	✓			
	36T	-			
	34T	1			
	32T	-			
	30T	-			
	28T	-			
	Double	-			
Chain guard type	Single	-			
	w/o Chain guard	1			
P.C.D.	P.C.D. (mm)				
Charles at a se	Material	Aluminum			
Chainring	Finish	Anodized			
No	ote				



# **Bottom Bracket (HOLLOWTECH II)**

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-BB93	SM-BB94-41	SM-BB80	SM-BB71-41	BB-MT800	ВВ-МТ800-Р
HOLLOWTECH II bottom bracket	Threaded bottom bracket type	✓	-	1	-	1	-
	Press-Fit type	-	✓	-	✓	-	1
Threaded bottom bracket shell width (mm)	68	1	-	✓	-	1	-
	73	✓	-	1	-	1	-
	83	-	-	1	-	-	-
Press-Fit bottom bracket shell width (mm)	84.5	-	-	-	-	-	-
	89.5	-	✓ (SM-BB94-41A)	-	✓ (SM-BB71-41A)	-	✓ (BB-MT800-PA)
	92	=	√ (SM-BB94-41A)	-	√ (SM-BB71-41A)	-	✓ (BB-MT800-PA)
	104.5	-	-	-	✓ (SM-BB71-41C)	-	-
	107	-	-	-	✓ (SM-BB71-41C)	-	✓ (BB-MT800-PC)
Small ball bearing		✓	✓	-	-	-	-
Adapter	Material	Aluminum	Resin	Aluminum	Resin	Aluminum	Resin
	Finish	Anodized	-	Anodized	-	Anodized	-
Spacer	Material	Aluminum	Resin	Resin	Resin	Aluminum	Resin
	Finish	Anodized	-	-	-	-	-
Average weight (g)		73	58	95 (68/73 mm) 96 (83 mm)	71 (89.5/92 mm) 73 (104.5/107 mm)	82	68.2
Note				Gold color for SAINT			

Ser	ries	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	BB-MT500	ВВ-МТ500-Р	SM-BB52
HOLLOWTECH II bottom bracket	Threaded bottom bracket type	1	-	1
bottom bracket	Press-Fit type	-	1	-
Threaded bottom bracket shell width (mm)	68	1	-	1
	73	1	-	1
	83		-	-
	84.5			-
	89.5	-	✓ (BB-MT500-PA)	-
Press-Fit bottom bracket shell width (mm)	92		✓ (BB-MT500-PA)	-
	104.5	1	-	-
	107	-	-	-
Small bal	l bearing	-	-	-
Adapter	Material	Aluminum	Resin	Aluminum
Adapter	Finish	Anodized	-	Painted
Spacer	Material	Resin	Resin	Resin
Spacer	Finish	-	-	-
Average v	veight (g)	-	-	-
No	ote			

SL

SLMT SMSL

BL

FD

BR

BR

BR

SMCD

MCR

5B

BB

MF

НВ

НВ

WH

CI-DECK

### **Bottom Bracket**

Sei	ries		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BB-ES300	BB-ES300-E	BB-ES300-K	BB-ES51	BB-ES51-E	BB-ES51-K	
	Stan	dard	1	-	-	1	-	-
Structure		ype	-	✓	-	-	✓	-
		in case	-	-	1	-	-	1
a · "		w pipe	1	1	1	1	1	<b>✓</b>
Spindle	OCTA	e type	-	<b>√</b>	-	-	-	<b>√</b>
	Jquai		-		-			
		68 (BC1.37)	-	-	-	-	-	-
	107	70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
		68 (BC1.37)	-	-	-	-	-	-
	MM110	70 (M36)	-	-	-	-	-	-
		73	-	-	-	-	-	-
		(BC1.37) 68						
		(BC1.37)	-	=	-	-	-	-
	LL113	70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	<del>,</del>	-	-
		68 (PC1 27)	1	1	-	1	-	-
	113	(BC1.37) 70 (M36)	· /	-	-		-	-
			,	-	-	7		
	<u> </u>	73 (BC1.37)	,	-	-	*	- '	-
	D-H	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	·	-	-
	YL117	68 (BC1.37)	-	-	-		-	-
	117.5	68 (BC1.37)	-	-	-	-	-	-
		68 (BC1.37)	1	1		1	_	_
	118		· /	-		-	_	-
	118	70 (M36) 73		_			-	
Avia langth/shall		(BC1.37)	1			1	-	-
Axle length/shell width (mm)	XL118	68 (BC1.37)	-		-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 mm	-	-	-	-	-	-
		68 (BC1.37)	1	✓	1	✓	-	-
		70 (M36)	-	-	-	1	-	-
		73 (BC1.37)	1	1	-	-	-	-
		68		1	<b>√</b> *	1	_	_
		(BC1.37)						
	126	70 (M36) 73			-	-	-	-
		(BC1.37)	1	1	-	-	-	-
		68 (BC1.37)	-	-	-	-	-	-
	D-NL 122	70 (M36)		-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
		68						
		(BC1.37)	-	-	-	-	-	-
	D-EL 127	70 (M36)		-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
		68 (BC1.37)	-	-	-	-	-	-
	LL123	70 (M36)	-	-	-	-	-	-
		73 (BC1 37)	-	-	-	-	-	-
	12202	(BC1.37) 68		-				
	123SP	68 (BC1.37)	-	-	-	-	-	-
	130	68 (BC1.37)	-	-	-	-	-	-
Spindle	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Spinale		ish	Bonderlube	Bonderlube	Bonderlube	Painted (Black)	Painted (Black)	Painted (Black)
Left hand adapter		erial	Resin	Resin	Resin	Resin	Resin	Resin
		ish orial	- Steel	- Steel	- Steel	- Steel	- Steel	- Steel
Right hand adapter/ Material Finish		Phosphate coated						
shell	Fin	shell Finish Note		Phosphate coated	Phosphate coated	Nickel Chrome	Nickel Chrome	Nickel Chrome

#### МТВ

SL

SLMT

SMSL

SMCD

SIVICR

ВВ

CS

MF

НВ

НВ

WH

CI-DECK

BL

#### **Bottom Bracket**

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		BB-ES51-AK	BB-UN300	BB-UN300-K	BB-UN300-E	BB-UN101	BB-UN101-K	
	Stan	dard	-	✓	-	-	1	-
Structure		ype	-	-	-	1	-	-
		in case	1	-	✓	-	-	✓
Spindle		w pipe ALINK	<b>√</b>	<u>-</u>	-	-	-	-
Spiriule		e type	-	<u>-</u>	- ✓	-	-	· ·
	- Jquui	68	-	<b>√</b>	-	-	-	-
	407	(BC1.37)						
	107	70 (M36) 73	-	-	-	-	-	-
		(BC1.37)	-	-	-	-	-	-
		68 (BC1.37)	-	<b>√</b> **	✓	-	-	-
	MM110	70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
		68	-	<b>√</b> **	_	-		-
		(BC1.37)						
	LL113	70 (M36) 73	-	<u> </u>	-	-	-	-
		(BC1.37)	-	1	-	-	-	-
		68 (BC1.37)	-	-	-		-	-
	113	70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-		-
		68		<b>√</b> *				
	D-H	(BC1.37)	-		-		-	-
		70 (M36) 68	-	-			-	-
	YL117	(BC1.37)	-	-	-		-	-
	117.5	68 (BC1.37)	-	<b>√</b> **		-	-	-
		68 (BC1.37)	-				_	_
	118	(BC1.37) 70 (M36)						
	118	70 (10136)	-	-	-	-	-	-
Avia langth/shall		(BC1.37)	-			-	-	-
Axle length/shell width (mm)	XL118	68 (BC1.37)	-	<b>√</b> **	<b>√</b> *	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 mm	-	1	-	-	-	-
		68 (BC1.37)	-	-	-	-	-	-
	121	70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
		68						
		(BC1.37)	-	·	-	-	-	-
	126	70 (M36) 73	-	-	-	-	-	-
		(BC1.37)	-	-	-	-	-	-
		68 (BC1.37)	-	<b>√</b> **	<b>√</b> **	-	<b>√</b> *	<b>√</b> *
	D-NL 122	70 (M36)		-	-	-	-	-
		73 (BC1.37)		<b>√</b> *	-	_	_	_
		68 (BC1.37)	-	<b>√</b> *	1	-	-	-
	D-EL 127	70 (M36)		-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
		68 (BC1.37)	-	<b>✓</b>	<b>√</b> ***	1	1	<b>√</b> **
	LL123	70 (M36)	-	<u>-</u>	-	-	-	-
		73	-	<b>√</b>	-	-	1	-
		(BC1.37)					•	
	123SP	68 (BC1.37)	-	-	-	-	-	-
	130	68 (BC1.37)	-	-	-	-	-	-
et	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Spindle Fi		ish	Painted (Black)	Bonderlube	Bonderlube	Bonderlube	-	-
Left hand adapter		erial	Resin	Aluminum	Aluminum	Aluminum	Resin	Resin
Finish			-	- Alemainean Charl	- Aliandaria Charl	- Aluminum Charl	- Davin Charl	- Paris Steel
Right hand adapter/ shell		erial ish	Steel Nickel Chrome	Aluminum, Steel	Aluminum, Steel	Aluminum, Steel	Resin, Steel	Resin, Steel
	ote		For FC-M521 only	* w/ Crank arm fixing bolts spec. only ** w/ Crank arm fixing bolts spec. is available	* w/ Crank arm fixing bolts spec. only ** w/ Crank arm fixing bolts spec. is available	-	* w/ Crank arm fixing bolts spec. is available	* w/ Crank arm fixing bolts spec. is available ** w/ 0.7 mm spacer
				available	*** w/ 0.7mm spacer			

## Cassette Sprocket

Series		XTR	XTR	SHIMANO DEORE XT
Mode	l no.	CS-M9100-12	CS-M9101-12	CS-M8100-12
Тур	oe .	HYPERGLIDE+	HYPERGLIDE+	HYPERGLIDE+
Spec	eds	12	12	12
Compatib	ole chain	HG 12-speed	HG 12-speed	HG 12-speed
Combination nam	ne (Group name)	10-45T 10-51T	10-45T 10-51T	10-45T 10-51T
	Combination 1	10-12-14-16-18-21-24-28-32-36-40-45T	10-12-14-16-18-21-24-28-32-36-40-45T	10-12-14-16-18-21-24-28-32-36-40-45T
	Combination 2	10-12-14-16-18-21-24-28-33-39-45-51T	10-12-14-16-18-21-24-28-33-39-45-51T	10-12-14-16-18-21-24-28-33-39-45-51T
	Combination 3	-	-	-
Combination	Combination 4	=	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	•	-
MICRO	SPLINE	<b>✓</b>	<b>✓</b>	✓
HG spline (RO	AD 11-speed)	-	-	-
HG spline (M	TB 7-speed)	-	-	-
HG spline	(Others)	-	•	-
Carbon spider arm	QTY (pcs)	-	-	-
Carbon spider arm	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	1	1	1
Aluminum spider arm	Finish	Anodized	Anodized	Painted
Steel spider arm	QTY (pcs)	-	-	-
Steel spider arm	Finish	-	-	-
Titanium gear	QTY (pcs)	5	5	-
Intamum gear	Finish	Shot	Shot	-
Al.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	QTY (pcs)	3	3	2
Aluminum gear	Finish	Painted	Painted	Anodized
Steel gear	QTY (pcs)	4	4	10
Steel geal	Finish	Plated	Plated	Plated
Lock ring	Material	Aluminum	Aluminum	Aluminum
Lock ring	Finish	Anodized	Anodized	Anodized
Average w	veight (g)	357 (10-45T) 367 (10-51T)	357 (10-45T) 367 (10-51T)	461 (10-45T) 470 (10-51T)
No	te	-	-	

Series		SLX	SHIMANO DEORE	XTR
Mode	el no.	CS-M7100-12	CS-M6100-12	CS-M9001
Тур	ое	HYPERGLIDE+	HYPERGLIDE+	HG
Spe		12	12	11
Compatib	ole chain	HG 12-speed	HG 12-speed	HG-X11
Combination nan	ne (Group name)	10-45T 10-51T	10-51T	11-40T (bs)
	Combination 1	10-12-14-16-1 <mark>8-21</mark> -24-28-32-36-40-45T	10-12-14-16-18-21-24-28-33-39-45-51T	11-13-15-17-19*-21*-24*-27*-31*-35*-40**T (bs)
	Combination 2	10-12-14-16-1 <mark>8-21-</mark> 24-28-33-39-45-51T	-	-
Combination	Combination 3		-	-
Combination	Combination 4		-	-
	Combination 5		-	-
	Combination 6	-	-	-
	Combination 7	·	-	-
MICRO	SPLINE	1	✓	-
HG spline (RO	AD 11-speed)	·	•	✓
HG spline (M	ITB 7-speed)		•	-
HG spline	(Others)	-	•	✓
Carbon spider arm	QTY (pcs)	-	-	2
Carbon spider arm	Finish	-	•	-
Aluminum spider arm	QTY (pcs)	1	1	2
Aluminum spider ann	Finish	Painted	Painted	Anodized
Steel spider arm	QTY (pcs)	-	-	-
Steel spider arm	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	1
Titaliialii geai	Finish	-	-	Shot
Aluminum gear	QTY (pcs)	1	-	6
Aluminum year	Fin <mark>ish</mark>	Anodized	-	-
Steel gear	QTY (pcs)	11	12	4
Jieer year	Finish	Plated	Plated	Shot-Ni
Lock ring	Material	Aluminum	Steel	Aluminum
Lock inig	Finish	Anodized	Plated	Anodized
Average v	veight (g)	513 (10-45T) 534 (10-51T)	-	330
No	te			* Titanium gear ** Aluminum gear

SL

SLMT

SMSL

SMCD

SIVICR

ВВ

ВВ

MF

НВ

НВ

WH

CI-DECK

## Cassette Sprocket

Series		SHIMANO DEORE XT	SLX	SHIMANO DEORE
Mode	el no.	CS-M8000	CS-M7000-11	CS-M5100-11
Тур	эе	HG	HG	HG
Spe	eds	11	11	11
Compatik	ole chain	HG-X11	HG-X11	HG-X11 11-speed
Combination nan	<u> </u>	11-40T (bs) 11-42T (bt) 11-46T (bu)	11-40T (bs) 11-42T (bt) 11-46T (bu)	11-42T 11-51T
	Combination 1	11-13-15-17-19-21-24-27-31-35-40**T (bs)	11-13-15-17-19-21-24-27-31-35-40**T (bs)	11-13-15-17-19-21-24-28-32-37-42T
	Combination 2	11-13-15-17-19-21-24-28-32-37-42**T (bt)	11-13-15-17-19-21-24-28-32-37-42**T (bt)	11-13-15-18-21-24-28-33-39-45-51T
	Combination 3	11-13-15-17-19-21-24-28-32-37**-46**T (bu)	11-13-15-17-19-21-24-28-32-37**-46**T (bu)	-
Combination	Combination 4	-	-	-
] [	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
MICRO	SPLINE	-	-	-
HG spline (RO	AD 11-speed)	✓	✓	✓
HG spline (M	TB 7-speed)	-	-	-
HG spline	(Others)	✓	✓	1
Carbon spider arm	QTY (pcs)	-	-	-
Carbon spider arm	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	2	1	1
Aluminum spider arm	Finish	Anodized	Anodized	Painted
Steel spider arm	QTY (pcs)	-	-	-
Steel spider arm	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
manium gear	Finish	-	-	-
Aluminum gear	QTY (pcs)	2	1 (11-40T) 1 (11-42T) 2 (11-46T)	-
	Finish	-	-	-
Steel gear	QTY (pcs)	9	10 (11-40T) 10 (11-42T) 9 (11-46T)	11
	Finish	Shot-Ni	Shot-Ni	Plated
Lock ring	Material	Aluminum	Steel	Steel
Lock Hilly	Finish	Anodized	Plated	Plated
Average v		411 (11-40T) 434 (11-42T) 437 (11-46T)	450 (11-40T) 476 (11-42T) 482 (11-46T)	-
No	te	** Aluminum gear	** Aluminum gear	

Model no.   CS-M71-10   CS-M4100-10   CS-H650-10	Series		SHIMANO DEORE XT	SHIMANO DEORE	SHIMANO
Compatible chain	Mode	el no.	CS-M771-10	CS-M4100-10	CS-HG50-10
Combination name (Group name)	Тур	эе	HG	HG	HG
Combination name (Group name)	Spe	eds	10		10
Combination name (Group name)	Compatib	ole chain			HG-X 10-speed
Combination 2	Combination nan	` '	11-34T (bJ) 11-36T (bk)	11-46T	, ,
Combination 3		Combination 1	11-12-14-16-18-20-22-25-28-32T (bL)	11-13-15-18-21-24-28-32-37-42T	11-13-15-17-19-21-24-28-32-36T (bk)
Combination 4	[	Combination 2		11-13-15-18-21-24-28-32-37-46T	-
Combination 5		Combination 3	11-13-15-17-19-21-24-28-32-36T (bk)	-	-
Combination 6	Combination	Combination 4	-	-	-
Combination 7		Combination 5	-	-	-
MICRO SPLINE		Combination 6	-	-	-
HG spline (ROAD 11-speed)		Combination 7	-	-	-
HG spline (MTB 7-speed)	MICRO	SPLINE	-	-	-
Carbon spider arm	HG spline (RO	AD 11-speed)	1	✓	✓
Carbon spider arm         QTY (pcs)         - <td>HG spline (M</td> <td>TB 7-speed)</td> <td>-</td> <td>-</td> <td>-</td>	HG spline (M	TB 7-speed)	-	-	-
Carbon spider arm	HG spline	(Others)	1	✓	1
Aluminum spider arm		QTY (pcs)	-	-	-
Steel spider arm	Carbon spider arm	Finish	-	-	-
Steel spider arm	Aluminum anidas asse	QTY (pcs)	2	-	-
Steel spider arm	Aluminum spider arm	Finish	Anodized	-	-
Titanium gear	Charlenialan anna	QTY (pcs)	-	1	1
Titanium gear	Steel spider arm	Finish	-	Plated	Ni plated
Aluminum gear	Tito minum manu	QTY (pcs)	-	-	-
Steel gear   Finish   -	I Itanium gear	Finish	Shot	-	-
Steel gear	A1	QTY (pcs)	-	-	-
Steel gear         Finish         Shot-Cr         Plated         Ni plated           Lock ring         Material         Aluminum         Steel         Steel           Finish         Anodized         Plated         Cr plated           Average weight (g)         294 (11-32T) 323 (11-34T)         -         -           343 (11-36T)         -         -         -	Aluminum gear	Finish	-	-	-
Cock ring	Ct I	QTY (pcs)	10	10	10
Lock ring   Finish   Anodized   Plated   Cr plated	Steel gear	Finish	Shot-Cr	Plated	Ni plated
Average weight (g)  Average Weight (g)  Average Weight (g)  Anodized  294 (11-32T)  -  323 (11-34T)  -  343 (11-36T)	La alcuina	Material	Aluminum	Steel	Steel
Average weight (g) 323 (11-34T)	LOCK ring	Finish	Anodized	Plated	Cr plated
Note		• •	323 (11-34T)	-	-
	No	te			

## Cassette Sprocket

Ser	ies	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	CS-HG400-9	CS-HG201-9	CS-HG200-9
Тур	pe	HG	HG	HG
Spe	eds	9	9	9
Compatik	ole chain	HG 9-speed	HG 9-speed	HG 9-speed
Combination nan		11-28T (bg) 11-32T (ar) 11-34T (au) 12-36T (bh) 11-36T (cb)	11-32T (bo) 11-34T (bn) 11-36T (bw)	11-32T (bo) 11-34T (bn) 11-36T (bw)
	Combination 1	11-12-13-14-16-18-21-24-28T (bg)	11-13-15-17-19-21-24-28-32T (bo)	11-13-15-17-19-21-24-28-32T (bo)
1	Combination 2	11-12-14-16-18-21-24-28-32T (ar)	11-13-15-17-20-23-26-30-34T (bn)	11-13-15-17-20-23-26-30-34T (bn)
	Combination 3	11-13-15-17-20-23-26-30-34T (au)	11-13-15-17-20-23-26-30-36T (bw)	11-13-15-17-20-23-26-30-36T (bw)
Combination	Combination 4	12-14-16-18-21-24-28-32-36T (bh)	-	-
1 [	Combination 5	11-13-15-17-20-23-26-30-36T (cb)	-	-
1 1	Combination 6	-	-	-
	Combination 7	-	-	-
MICRO	SPLINE	-	-	-
HG spline (RO	AD 11-speed)	1	1	✓
HG spline (M	ITB 7-speed)	-	-	-
HG spline	(Others)	1	1	1
	QTY (pcs)	-	-	-
Carbon spider arm	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
Aluminum spider arm	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	
Steel spider arm	Finish	-	-	-
Titani man	QTY (pcs)	-	-	-
Titanium gear	Finish	-	-	-
Aluminum go-:	QTY (pcs)	-	· -	-
Aluminum gear	Finish	-		-
Ctool many	QTY (pcs)	9	9	9
Steel gear	Finish	Ni-Ni plated	Ni-Ni plated (Top gear: Phosphate coated)	Phosphate coated
La disala a	Material	Steel	Steel	Steel
Lock ring	Finish	Ni-Ni plated	Phosphate coated	Phosphate coated
Average v	veight (g)	-	-	-
No	te			

Seri	ies	SHIMANO	SHIMANO	SHIMANO
Mode	l no.	CS-HG51-8	CS-HG41-8	CS-HG31-8
Тур	oe .	HG	HG	HG
Spec		8	8	8
Compatib	ole chain	IG/HG	IG/HG	IG/HG
Combination nam		11-28T (bf) 11-30T (an) 11-32T (aw)	11-30T (an) 11-32T (aw) 11-34T (ao)	11-30T (an) 11-32T (aw) 11-34T (ao)
	Combination 1	11-13-15- <mark>17-1</mark> 9-21-24-28T (bf)	11-13-15-17-20-23-26-30T (an)	11-13-15-17-20-23-26-30T (an)
	Combination 2	11-13-15- <mark>17-20</mark> -23-26-30T (an)	11-13-15-18-21-24-28-32T (aw)	11-13-15-18-21-24-28-32T (aw)
	Combination 3	11-13-15-1 <mark>8-21-24</mark> -28-32T (aw)	11-13-15-17-20-23-26-34T (ao)	11-13-15-17-20-23-26-34T (ao)
Combination	Combination 4		-	-
	Combination 5		-	-
	Combination 6	-	-	-
	Combination 7		-	-
MICRO		-	-	-
HG spline (RO			✓	✓
HG spline (MTB 7-speed)			-	-
HG spline			✓	✓
Carbon spider arm	QTY (pcs)	-	-	-
Carbon spider aim	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
Aluminum spider anni	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
Steer spider arm	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
. realisatin geal	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
ummum gcai	Fin <mark>ish</mark>	-	-	-
Steel gear	QTY (pcs)	8	8	8
Steel geal	Finish	Chrome plated	Ni plated	Phosphate coated
Lock ring	Material	Steel	Steel	Steel
	Finish	Chrome plated	Phosphate coated	Phosphate coated
Average v		-	-	-
No	te			

SLMT

SMSL

## Cassette Sprocket

Ser	ies	SHIMANO	SHIMANO	SHIMANO
Mode	l no.	CS-HG200-8	CS-HG41-7	CS-HG200-7
Тур	ре	HG	HG	HG
Spe	eds	8	7	7
Compatik	ole chain	HG 8-speed	IG/HG	IG/HG
Combination nan	ne (Group name)	12-32T (br)	11-28T (ac)	12-28T (bm) 12-32T (bp)
	Combination 1	12-14-16-18-21-24-28-32T (br)	11-13-15-18-21-24-28T (ac)	12-14-16-18-21-24-28T (bm)
	Combination 2	-	-	12-14-16-18-21-26-32T (bp)
	Combination 3	-	-	-
Combination	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
MICRO		-	-	-
HG spline (RO	AD 11-speed)	✓	-	-
HG spline (M	TB 7-speed)	-	✓	✓
HG spline	(Others)	✓	-	-
Carbon spider arm	QTY (pcs)	-	-	-
Carbon spider arm	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
Aluminum spider arm	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
Steel spider arm	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
Titamam gear	Finish	-	-	
Aluminum gear	QTY (pcs)	-	-	-
Aluminum gear	Finish	-	-	-
Steel gear	QTY (pcs)	8	8	7
Steel year	Finish	Phosphate coated	Ni plated	Phosphate coated
Lock ring	Material	Steel	Steel	Steel
	Finish	Painted	Phosphate coated	Painted
Average v	veight (g)	-	-	-
No	te			

Ser	ries	SHIMANO DXR
Mode	el no.	CS-MX66
Ту	pe	Single sprocket for FH-MX70
Spe	eds	1
Compati	ble chain	1/2 inch x 3/32 inch
Combination nar		-
	Combination 1	-
	Combination 2	
	Combination 3	-
Combination	Combination 4	-
	Combination 5	-
	Combination 6	-
	Combination 7	
MICRO		
HG spline (RO		
HG spline (N	ITB 7-speed)	-
HG spline		-
Carbon spider arm	QTY (pcs)	
Carbon spider ann	Finish	- 7
Aluminum spider arm	QTY (pcs)	-
Aluminum spider arm	Finish	-
Steel spider arm	QTY (pcs)	-
Steel spider arm	Finish	-
Titanium gear	QTY (pcs)	-
Titaliiuiii geai	Finish	-
Aluminum gear	QTY (pcs)	-
Aluminum gear	Finish	-
Steel gear	QTY (pcs)	1
Steel geal	Finish	Shot-Cr/Shot-Ni
Lock ring	Material	Steel
	Finish	Chrome plated
Average v	veight (g)	-
No	ote	For BMX racing



ВВ

#### FH

#### WH

## Multiple Freewheel

Se	ries	SHIMANO	SHIMANO	SHIMANO
Mod	el no.	MF-TZ500-7	MF-TZ510-7	MF-TZ500-6
Ту	pe	HG/UG	HG/UG	HG/UG
Spe	eeds	7	7	6
Compati	ble chain	HG/UG	HG/UG	HG/UG
Combination na	me (Group name)	14-28T 14-34T	14-28T 14-34T	14-28T
	Combination 1	14-16-18-20-22-24-28T	14-16-18-20-22-24-28T	14-16-18-21-24-28T
	Combination 2	14-16-18-20-22-24-34T	14-16-18-20-22-24-34T	-
Combination	Combination 3	-	-	-
	Combination 4	-	-	-
	Combination 5	-	-	-
Spider arm	QTY (pcs)	-	-	-
	w/ Spoke protector	✓	1	1
Spoke protector	w/o Spoke protector	✓	1	1
Aluminun	n lock ring	-	·	1
Fir	nish	Brown & Black	Zn Plating & Black Coated	Brown & Black
Ne	ote			

Se	ries	SHIMANO
Mod	el no.	MF-TZ510-6
Ту	pe	HG/UG
Spe	eds	6
Compati	ble chain	HG/UG
Combination na	ne (Group name)	14-28T
	Combination 1	14-16-18-21-24-28T
	Combination 2	-
Combination	Combination 3	-
	Combination 4	
	Combination 5	
Spider arm	QTY (pcs)	
	w/ Spoke protector	1
Spoke protector	w/o Spoke protector	
Aluminun	n lock ring	
Fin	nish	Zn Plating & Black Coated
No	ote	

#### итв

SL

SLMT

SMSL

SMCD

SIVICR

ВВ

ВВ

НВ

WH

CI-DECK

BL

### Front Hub (Disc Brake)

Ser	ies	XTR	XTR	XTR	SAINT	SHIMANO DEORE XT	SHIMANO DEORE XT
Mode	el no.	HB-M9110	НВ-М9110-В	HB-M9110-BS	HB-M820	HB-M8110	HB-M8110-B
	1 Hub Shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	-	-	-
Color	2 Hub Shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake	type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D.	(mm)	100	110	110	110	100	110
	28H	1	1	1	-	1	1
Spoke hole	32H	1	1	_	1	1	1
	36H	-	-	-	1	1	· ·
External serration with		_	_	_	1	_	_
disc brake rotor lock	without	1	1	-	_		1
ring		<b>7</b>	-	-		7	-
CENTER LOCK mo					-		-
Axle fixin	=	15 mm E-THRU	15 mm E-THRU	15 mm E-THRU	20 mm Thru	15 mm E-THRU	15 mm E-THRU
Quick release	129	-	-	-	-		-
skewer length (mm)	133	-	-	-		-	-
Thru Axle (Length x	100 x 15	1	-	-	-	1	-
Inner diameter ; mm)	110 x 15	-	1	1	-	•	1
,	110 x 20	-	-	-	1	-	-
Flange distance (mm)		60.2	70.2	62.76	61.6	60.2	70.2
Offset	(mm)	5.4	5.4	3.63	5.6	5.7	5.7
P.C.D. Left/I	Right (mm)	44/44	44/44	45	52	44/44	44/44
Flange dian	neter (mm)	52.8	52.8	51	59.6	52.8	52.8
Se	al	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	-	-
Internal gre	ease sleeve	-	-	-	-	1	1
	Stainless ball	1	1	1	1	1	1
	Cup	Grinded	Grinded	Grinded	CBN	Polish	Polish
Bearing	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Axle	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Ariodized	Ariodized	- Allodized	- Anodized	- Anodized	- Anouizeu
Quick release lever							
	Finish		-	-	-	-	-
Quick release housing	Material			-	-	-	-
	Finish	-	•	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish			-	-	-	-
Disc brake rotor lock	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
ring	Finish	Anodized	Anodized	Anodized	Anodized	-	-
Average v	veight (g)	132	137	146	202	142	147
No	te	-	-	For straight spoke ERD: 550 - 610 mm Rim offset: 0 - 3 mm Intersections: 3 cross only including spoke heads in hub shell. Some spoke calculators may call this 2 cross. Contact the nearest SHIMANO sales	Axle is supplied with front fork.		
				office for more information			

## Front Hub (Disc Brake)

Ser	ies	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX
Mode	el no.	HB-M8110-BS	HB-M8000	HB-M8010	HB-M8010-B	HB-M756	HB-M7110
	1 Hub Shell	Series color	Series color	Series color	Series color	Black	Series color
.	1 Quick release	-	Series color	-	-	Black	-
Color	2 Hub Shell	-	·	-	-	Silver	-
	2 Quick release	-	-	-	-	Silver	-
Brake	type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake	CENTER LOCK disc brake
O.L.D.	(mm)	110	100	100	110	100	100
	28H	1	-	-	-	-	1
Spoke hole	32H	-	1	1	1	1	1
	36H	_	-	1	-	1	-
External serration	with	_	_	-	_		_
disc brake rotor lock ring	without	1	1	1	1	_	1
		•	•	•	•		_
CENTER LOCK mo		15 mm 5 TUDU	Ouisk ralease	15 mm 5 TUDU	15 mm 5 THRU	Ouisk ralease	
Axle fixing	-	15 mm E-THRU	Quick release	15 mm E-THRU	15 mm E-THRU	Quick release	15 mm E-THRU
Quick release skewer length (mm)	129	-	-	-	-		-
skewer length (lillin)	133	-	1	-		1	-
Thru Axle (Length x Inner diameter ;	100 x 15	-	-	1	-	-	1
Inner diameter ; mm)	110 x 15	1	-	-	<b>√</b>	-	-
,	110 x 20	-	-	-	-	-	-
Flange distance (mm)		62.8	60.2	60.2	70.2	59.4	60.2
Offset	(mm)	3.7	6	5.4	5.4	5.5	5.7
P.C.D. Left/i	Right (mm)	45/45	44/41	44/44	44/44	61	44/44
Flange dian	neter (mm)	51	52.8/51.4	52.8	52.8	70.6	52.8
Se	al	-	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Internal gre	ease sleeve	1	<b>✓</b>	1	J	-	1
	Stainless ball	1	-	-	-	-	1
l <u>.</u> . I	Cup	Polish		-		-	Polish
Bearing	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Aluminum
Axle	Finish	Anodized	Anodized	Anodized	Anodized	-	Anodized
	Material		Aluminum	-	-	Aluminum	-
Quick release lever	Finish		Anodized	_	_	Anodized	_
	Material		Aluminum	-	-	Alluminum	-
Quick release housing			Anodized	-			
<u> </u>	Finish	-		-	<u>-</u>	Anodized	-
Quick release nut	Material	-	Resin & Steel	-	-	Resin & Steel	-
<del>                                     </del>	Finish		-	- Alexandria	- A l	-	-
Disc brake rotor lock ring	Material		-	Aluminum	Aluminum	-	-
	Finish	-	-	Anodized	Anodized	-	-
Average v	veight (g)	158	167	148	158	239	142
No	te	For straight spoke  ERD: 550 - 610 mm Rim offset: 0 - 3 mm Intersections: 3 cross only including spoke heads in hub shell. Some spoke calculators may call this 2 cross.  Contact the nearest	-	Axle is supplied with front fork.	-	Spoke hole 24H spec. available.	
		SHIMANO sales office for more information					

### Front Hub (Disc Brake)

Ser	ies	SLX	ZEE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO	SHIMANO
Mode	el no.	НВ-М7110-В	HB-M640	HB-M6000	HB-M6010	HB-MT410	HB-MT410-B
	1 Hub Shell	Series color	Series color	Series Black	Series Black	Black	Black
Color	1 Quick release	-	-	Series Black	-	-	-
Color	2 Hub Shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake	Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D.	(mm)	110	110	100	100	100	110
	28H	1	-	-	-	✓	✓
Spoke hole	32H	1	1	1	<b>*</b>	✓	<b>~</b>
	36H	-	1	1	✓	✓	<b>~</b>
External serration	with	-	1	-	-	-	-
disc brake rotor lock ring	without	1	-	1	1	<b>▲</b> ✓	1
CENTER LOCK mo	unt cover option	-	-	-	-	-	-
Axle fixin	g method	15 mm E-THRU	20 mm Thru	Quick release	15 mm E-THRU	15 mm E-THRU	15 mm E-THRU
Quick release	129	-	-	-	-		-
skewer length (mm)	133	-	-	1	<u> </u>	•	-
-1 . 1	100 x 15	-	-	-	1	1	-
Thru Axle (Length x Inner diameter;	110 x 15	1	-	-	-	-	1
mm)	110 x 20	-	1	-	-		-
Flange dist	ance (mm)	70.2	61.55	60.2	60.2	60.2	70.2
Offset	(mm)	5.7	5.6	5.6	5.3	5.3	5.3
P.C.D. Left/I	Right (mm)	44/44	52	44	44	44/44	44/44
Flange dian	neter (mm)	52.8	61.6	52.8	52.8	52.8	52.8
Se	al	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Internal gre	ease sleeve	1	1	-	1	-	-
	Stainless ball	1	-	-	-	-	-
B	Cup	Polish		-	-	-	-
Bearing	Cone	CBN	CBN	CBN	CBN	-	-
	Cartridge	-	-	-	-	1	1
Livib ab all	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Axle	Material	Aluminum	Aluminum	Steel	Aluminum	-	-
Axie	Finish	Anodized	Anodized	-	Anodized	-	-
Quick release lever	Material	-	-	Aluminum	-	-	-
Quick release lever	Finish	·	-	Anodized	-	-	-
Quick release	Material		·	Aluminum	-	-	-
housing	Finish	-		Anodized	-	-	-
Quick release nut	Material	-	-	Resin & Steel	-	-	-
Quick release flut	Finish	-	-	-	-	-	-
Disc brake rotor lock	Material		Aluminum	-	Steel	-	-
ring	Finish	-	Anodized	-	-	-	-
Average v	veight (g)	147	228	185	160	167	171
No	te		Axle is supplied with front fork.		-		

SL SLMT SMSL SMCD SIVICR ВВ ВВ MF

НВ

WH CI-DECK

### Front Hub (Disc Brake)

Ser	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	l no.	HB-M525A	HB-M475	HB-M4050	HB-M3050	HB-MT400	НВ-МТ400-В
	1 Hub Shell	Black	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	Black	-	-
Color	2 Hub Shell	Silver	Silver	Silver	-	-	-
	2 Quick release	Silver	Silver	Silver	-	-	-
Brake	type	6-bolt disc brake	6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D.	(mm)	100	100	100	100	100	110
	28H	-	-	-	-	-	1
Spoke hole	32H	1	1	1	1	1	✓
	36H	✓	✓	1	1	1	✓
External serration	with	-	-	-	-	-	-
disc brake rotor lock ring	without	-	-	1	1	1	1
CENTER LOCK mo	unt cover option	-	-	-	-	-	-
Axle fixing	g method	Quick release	Quick release	Quick release	Quick release	15 mm E-THRU	15 mm E-THRU
Ouick release	129	-	-	-	-	-	-
Quick release skewer length (mm)	133	1	1	1	1	_	-
Thomas Andre (Learnesthern	100 x 15	-	-	-	_	1	-
Thru Axle (Length x Inner diameter ;	110 x 15	-	-	-	-	-	1
mm)	110 x 20	-	-	-	-	1	-
Flange dist	ance (mm)	59.2	59.2	60.2	60.2	60.2	70.2
Offset	(mm)	5.7	5.5	5.6	5.5	5.3	5.3
P.C.D. Left/F	Right (mm)	61/61	61/61	44/44	44/44	44/44	44/44
Flange dian	neter (mm)	70.6	70.6	52.8	52.8	52.8	52.8
Se	al	Labyrinth & Contact	Contact	Labyrinth & Contact	Contact	Labyrinth & Contact	Labyrinth & Contact
Internal gre	ase sleeve	-	-	-	-	✓	-
	Stainless ball	-	-	-	-	-	-
Bearing	Cup	-	-	-	-	-	-
bearing	Cone	CBN	-		-	-	-
	Cartridge	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
riub sileli	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Aluminum	Aluminum
	Finish	-	-	-	-	-	-
Quick release lever	Material	Aluminum	Steel	Aluminum	Steel	-	-
Quien release level	Finish	Anodized	Plated	Painted	Plated	-	-
Quick release	Material	Aluminum	Steel	Steel	Steel	-	-
housing	Finish	Anodized	Plated	Plated	Plated	-	-
Quick release nut	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	-	-
2	Finish	-	-	-	-	-	-
Disc brake rotor lock	Material	-	-	-	-	Steel	Steel
ring	Finish		-	-	-	-	-
Average v	veight (g)	245	230	185	182	160	169
No	te	-	-	-	-	-	-

#### MTB

### Front Hub (Disc Brake)

Ser	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	HB-MT200	HB-RM35	HB-TX505	HB-TX506
	1 Hub Shell	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	Black
Color	2 Hub Shell	-	-	-	-
	2 Quick release	-	-	-	-
Brake	type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake
O.L.D.	(mm)	100	100	100	100
	28H	1	1	1	-
Spoke hole	32H	1	1	1	✓
	36H	1	1	1	1
External serration disc brake rotor lock	with	-	-	-	-
disc brake rotor lock ring	without	1	1	1	-
CENTER LOCK mo	ount cover option	-	-	-	-
Axle fixin	g method	Quick release	Quick release	Quick release	Quick release
Quick release	129	-	-	1	-
skewer length (mm)	133	1	1	1	1
_	100 x 15	-	-	-	A .
Thru Axle (Length x Inner diameter ;	110 x 15	-	-	-	-
mm)	110 x 20	-	-	-	-
Flange dist	ance (mm)	60.2	60.2	60.2	58.1
Offset	: (mm)	5.3	5.5	5.3	5.3
P.C.D. Left/	Right (mm)	44/44	44/44	44/44	61/61
Flange diar	neter (mm)	52.8 (32H/36H) 53.8 (28H)	52.8	52.8 (32H/36H) 53.8 (28H)	70.6
Se	al	Contact	Contact	Contact	Contact
Internal gro	ease sleeve	-	-		-
	Stainless ball	-	-		-
Bearing	Cup	-	-	-	-
bearing	Cone	-	-		-
	Cartridge	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
nub sileli	Finish	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel
Axie	Finish	-	-	-	-
Quick release lever	Material	Steel	Steel	Steel	Steel
Quick release level	Finish	Plated	Plated	Plated	Plated
Quick release	Material	Steel	Steel	Steel	Steel
housing	Finish	Plated	Plated	Plated	Plated
Quick release nut	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
Quick release nut	Finish		-	-	-
Disc brake rotor lock	Material		-	-	-
ring	Finish		-	-	-
Average v	weight (g)	182 (32H/36H) 184 (28H)	182	182 (32H/36H) 184 (28H)	239
No	ote	. 🔻	-	-	-

SL

SLMT

SIVISL

ST

ST

RD

ED

BR

BR

BR

SMCD

SMCR

BB

ВВ

MF

1B

НВ

ΕH

FΗ

WH

CI-DECK

### Front Hub (Rim Brake)

Ser	ies	SHIMANO	SHIMANO
Mode	el no.	HB-TX500-QR	HB-TX500-NT
	1 Hub Shell	Black	Black
Color	1 Quick release	Black	Black
Color	2 Hub Shell	Silver	Silver
	2 Quick release	Black	Black
Brake	type	Rim brake	Rim brake
O.L.D.	(mm)	100	100
	28H	-	-
Spoke hole	32H	1	✓
	36H	1	✓
External serration	with	-	-
disc brake rotor lock ring	without	1	1
CENTER LOCK mo	unt cover option	-	-
Axle fixin	g method	Quick release	Nut
Quick release	129 mm	1	-
Quick release skewer length	133 mm	1	-
	100 x 15	-	-
Thru Axle (Length x Inner diameter;	110 x 15	-	-
mm)	110 x 20	-	-
Flange dist	ance (mm)	71.6	71.6
Offset	(mm)	0	0
P.C.D. Left/	Right (mm)	38/38	38/38
Flange diar	neter (mm)	46	46
Se	al	-	-
Internal gr	ease sleeve	-	-
	Stainless ball	-	-
Bearing	Cup	-	-
	Cone		-
	Material	Aluminum	Aluminum
Hub shell	Finish	Painted (Black), Clear	Painted (Black), Clear
	Material	Steel	Steel
Axle	Finish		-
0.1.1.1	Material	Steel	-
Quick release lever	Finish	Plated	-
Quick release	Material	Steel	-
housing	Finish	Plated	-
	Material	Resin & Steel	-
Quick release nut	Finish	-	-
Disc brake reter	Material	-	-
Disc brake rotor lock ring	Finish	-	-
Average v	veight (g)	-	-



SL

SLMT

SMSL

SMCD

SIVICR

ВВ

ВВ

НВ

FΗ

WH

CI-DECK

BL

### FREEHUB (Disc Brake)

Seri	ies		XTR	XTR	XTR	XTR	SAINT	SAINT
	del no.  1 Hub Shell		FH-M9111	FH-M9111-B	FH-M9111-BS	FH-M9000	FH-M820	FH-M825
IVIOUE			Series color	Series color	Series color	Series color	Series color	Series color
-			Series Color	Series Color	Series Color	Series color	Series Color	Jeries Color
Color	2 Hub		-	-	-	-	-	-
	2 Quick		-	-	-	-	-	-
Brake	type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Spec	eds		12	12	12	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed
O.L.D.			142	148	148	135	135	150
	28		<b>√</b>	✓	<b>√</b>	-	-	-
Spoke hole	32		✓	✓	-	✓	1	1
10 tooth com	36		-	-	-	-	-	-
External serration	cog compatible n with		_	-	-	-	-	-
isc brake rotor lock	with		1	1	1		_	_
ring			-	-	-	-	-	-
Internal serration isc brake rotor lock	wi							
ring	with		✓	1	1	✓	1	1
CENTER LOCK mo		ption	- 12 man F TUDU	- 12 F TUDU	- 12 F TUDU	- Ovids release	- Thur	- Th
Axle fixing	, method	166 mm	12 mm E-THRU -	12 mm E-THRU	12 mm E-THRU	Quick release	Thru -	Thru -
		170 mm	-	-	-	-		-
	Steel QR	172 mm	-	-	-	A .	-	-
uick release skewer		176 mm	-	-	-	-	-	-
length		168 mm	-	-	-	1	-	-
	Alloy QR	173 mm	-	-	-	<b>V</b>		-
	J. QII	174 mm	-	-	-	-		-
		178 mm	-	-	-	-	-	-
	135 135		-	-	-	•	/	-
		x 12 x 12	-	-	-		-	-
hru Axle (Length x ner diameter ; mm)	148		-	-	1		-	-
, , , , , , , , , , , , , , , ,	150		-	-			-	1
•	157		=	=	-	-	-	-
Flange dist			55.89	63.06	56.0	57.4	57.4	72.4
Offset	(mm)		7.05	7.02	6.8	6.6	6.4	6.6
P.C.D. Left/F			50/61	47.25/61	45/61	44/45	44/45	44/45
Flange diameter		(mm)	59/70	56.25/70	51/68.4	52.8/53.8	52.8/53.8	52.8/53.8
MICRO		-N	<b>√</b>		/	-	-	-
HG spline (RO: HG spline (M			-	-	-	-	-	-
HG spline		',	<u> </u>	-	-	1	1	1
Ratchet sy:			Face ratchet type	Face ratchet type	Face ratchet type	Pawl type	Pawl type	Pawl type
Quick eng			✓ (max	√ (max	✓ (max	√ (more than 36)	✓ (more than 36	√ (more than 36)
Quick eng		_	7.0 deg.)	7.0 deg.)	7.0 deg.)	times/ 360 deg.)	times/ 360 deg.)	times/ 360 deg.)
Seal		ub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Internal gre	FREEHU	ів воау	Contact	Contact	Contact	Contact ✓	Contact ✓	Contact ✓
internal gre		ss ball	-	-	-	1	-	-
	Cı		Grinded	Grinded	Grinded	Grinding	Grinding	Grinding
Bearing	Co		CBN	CBN	CBN	CBN	CBN	CBN
	Cartı	ridge	-		-	-	-	-
FREEHUB body	Mat	$\overline{}$	Aluminum	Aluminum	Aluminum	Titanium	Steel	Steel
	Fin		Anodized	Anodized	Anodized	-	-	-
Hub shell	Mat		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin Mat		Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Steel	Anodized Steel
Axle	Fin		Anodized	Anodized	Anodized	Anodized	-	-
Juliek volones leve		erial		-	-	Aluminum	-	-
Quick release lever	Fin		·	-	-	Anodized	-	-
Quick release		erial	·	-	-	Aluminum	-	-
housing	Fin			-	-	Anodized	-	-
Quick release nut	Mat	erial	-	-	-	Resin & Steel	-	-
ice buoko wata u la -1	Mat	_	- Aluminum	Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum
isc brake rotor lock ring		ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
verage weight (g) (w	/o Axle, qu		237	238	241	271	347 (ø10)	348
nor loc	k ring)		231	230		2/1	333 (ø12)	340
No	te				* For straight spoke, Lacing pattern limited to 3-cross, non-offset rim			
					For details, refer to Products Technical Information			

## FREEHUB (Disc Brake)

Series  Model no.						DEORE XT DEORE XT DEORE XT DEO		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT
el no.		FH-M8110	FH-M8110-B	FH-M8110-BS	FH-M8130-B	FH-M8000	FH-M8010			
1 Hub	Shell	Series color	Series color	Series color	Series color	Series color	Series color			
1 Quick	release	-	-	-	-	Series color	-			
		-	-	-	-	-	-			
	release	CENTER LOCK disc	CENTER LOCK disc	- CENTER LOCK disc	CENTER LOCK disc	CENTER LOCK disc	CENTER LOCK disc			
		brake 12	brake 12	brake 12	brake 12	8-10 speed, MTB	8-10 speed, MTB			
							11-speed 142			
	ЗН	√ · · · ·	<b>√</b>	<b>√</b>	<b>√</b>	-	-			
		✓	1	-	✓	✓	✓			
ooth cog compatible							1			
<del></del>					-		-			
		1	J	1	J	J	1			
		-	_	-	-	-	-			
witl	nout	1	1	1	1	1	1			
	option	- 42 F. TUDU	- 12 F. TUDU	- 42 F. TUDU	- 42 5 TUDH	- Outstand	- 12 5 TUBU			
g method	166 mm	12 mm E-THRU	12 mm E-THRU -	12 mm E-THRU	12 mm E-THRU		12 mm E-THRU			
C4	170 mm	-	-	-			-			
steel QR	172 mm	-	-	-	-	-	-			
	176 mm	-	-	-	-	-	-			
		-	-	-	-	V	-			
Alloy QR			-	-			-			
		-	-	-	-	-	-			
135		-	-	-		-	-			
135	x 12	-		-		-	-			
		1	-	-		-	1			
						-	-			
							-			
	X 12	55.17				57.4	57.4			
(mm)		6.72	6.6	6.78	6.43	6.9	6.4			
Right (mm)		61/61	60/61	45/61	58/61	44/45	44/45			
	(mm)	69.8/69.8	68.8/69.8			52.8/53.8	52.8/53.8			
	-d)	-		-	-	<del>-</del>	-			
		-	-	-	-	-	-			
(Others)		-	·	-	-	✓	1			
stem type		Face ratchet type	Face ratchet type	Face ratchet type	Ratchet type	Pawl type	Pawl type			
gagement		7.0 deg.)	7.0 deg.)	7.0 deg.)	7.0 deg.)	times/ 360 deg.)	√ (more than 36 times/ 360 deg.)			
		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact			
		Contact		Contact			Contact			
				-		•	-			
		Polish	Polish	Polish	Polish	-	-			
		CBN & Polish	CBN & Polish	CBN & Polish	CBN & Polish	CBN	CBN			
		-		-	-	-	-			
		Aluminum	Aluminum	Aluminum		Steel	Steel			
							- Aluminum			
		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized			
Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum			
		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized			
	_	-					-			
			<del>-</del>	-	-		-			
		-	-	-	-	Anodized	-			
Mat	erial	-		-	-	Resin & Steel	-			
		-	-	-	-	-	-			
Fin	ish	-	-	-	-	-	-			
ı/o Axle, qւ k ring)	iick release	305	307	306	310	331	359			
Note				ERD: 550-610 mm Rim offset: 0-3 mm Intersections: 3 cross only, including spoke heads in hub shell. Some spoke calculators may call this 2 cross. Contact the nearest SHIMANO sales office						
	1 Hub 1 Quick 2 Hub 2 Quick 2 type eds (mm) 28 33 36 compatible with with with cover of gmethod Steel QR  Alloy QR 135 135 135 135 142 148 150 157 cance (mm) Right (mm) Left/Right ST/Right ST/Right AD 11-speece (Others) stem type gagement Hispan H	1 Hub Shell 1 Quick release 2 Hub Shell 2 Quick release 2 Hub Shell 2 Quick release 8 type eds (mm) 28H 32H 36H 32H 36H 3 compatible with without with without ount cover option g method 4 166 mm 170 mm 170 mm 1712 mm 176 mm 178 mm 135 x 10 135 x 12 141 x 12 148 x 12 150 x 12 157 x 12 148 x 12 150 x 12 157 x 12 158 x 10 135 x 10 135 x 10 135 x 10 135 x 10 135 x 10 135 x 10 135 x 10 135 x 10 135 x 10 135 x 10 135 x 10 135 x 10 135 x 10 135 x 10 135 x 10 178 mm 178 mm 178 mm 178 mm 178 mm 179 mm 179 mm 179 mm 179 mm 179 mm 170 mm 170 mm 170 mm 171 mm 171 mm 171 mm 171 mm 172 mm 173 mm 174 mm 175 mm 175 mm 175 mm 176 mm 177 mm 177 mm 177 mm 178 mm 179 mm 170 mm 170 mm 170 mm 170 mm 170 mm 170 mm 171 mm 170 mm 1	1 Hub Shell 1 Quick release 2 Hub Shell 2 Quick release 2 Hub Shell 3 Quick release ctype  CENTER LOCK disc brake  eds  12  (mm) 142 28H 32H 32H 36H √ 36H √ 36H √ 36H √ 36H ✓ 36H ✓ 37 36H ✓ 38H ✓ 31 36H ✓ 41 32 36H ✓ 41 32 36H ✓ 41 32 36H ✓ 41 32 36H ✓ 41 32 36H ✓ 41 32 36H ✓ 41 32 36H ✓ 41 32 41 32 41 32 41 32 41 32 41 32 41 32 41 33 43 34 34 34 34 34 34 34 34 34 34 34	1 Hub Shell 1 Quick release 2 Hub Shell 2 Quick release ctype  CENTER LOCK disc brake  eds  12  12  13  142  148  28H  32H  36H  4  10 compatible  with  without  with	1 Hub Shell   Series color   Series color   1 Quick release	1   1   1   1   1   1   1   1   1   1	1   1   1   1   1   1   1   1   1   1			

SL

SLMT

SMSL

SMCD

SIVICR

ВВ

ВВ

MF

ΗВ

НВ

FH

WH

CI-DECK

BL

### FREEHUB (Disc Brake)

Sei	Series  Model no.		SHIMANO DEORE XT	SHIMANO DEORE XT	SLX	SLX	SLX	ZEE
Mode	el no.	no. FH-M8010-B FH-M756 FH-M7110 FH-M7110-B FH-M7130-B		FH-M640				
	1 Hub		Series color	Black	Series color	Series color	Series color	Series color
Color	2 Hub Shell		-	Black Silver	-	-	-	-
	2 Quick		-	Black	-	-	-	-
Brake	Brake type		CENTER LOCK disc brake	6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
<u> </u>	Speeds		8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	12	12	12	8-10 speed, MTB 11-speed
O.L.D.			148	135	142	148	157	135
Spoke hole	28	3H 2H	-	-	1	<b>√</b>	1	-
Spoke Hole	36		-	1	1	1	-	1
10 tooth cog			-	-	1	1	1	-
External serration	wi	ith	-	-	-	-	-	-
disc brake rotor lock ring	with	hout	✓	-	✓	✓	✓	✓
Internal serration disc brake rotor lock	wi		-	-	-	-	-	-
ring		hout	1	-	✓	1	1	✓
CENTER LOCK mo		ption	- 12 5 TUDU	0.000	- 12 5 TUDU	- 42 5 TUDIA	42 5 711011	- Th
Axie fixin	g method	166 mm	12 mm E-THRU	Quick release	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Thru -
		170 mm	-	-	-	-	-	-
	Steel QR	172 mm	-	-	-	-	-	-
Quick release skewer		176 mm	-	-	-	-	-	-
length		168 mm	-	1	-	-		-
	Alloy QR	173 mm 174 mm	-	✓	-	-	-	-
		174 mm 178 mm	-	-	-	-	-	-
	135			-		:	-	-
		x 12	-	-	-		-	1
Thru Axle (Length x	142	x 12	-	-	1		-	-
nner diameter ; mm)	148	x 12	1	•	-	<b>V</b>	-	-
		x 12	-	-	-	-	-	-
		x 12	-	-	-	-	<b>√</b>	-
Flange dist	tance (mm) t (mm)		63.4 6.4	57.1 6.8	55.17 6.72	62.16 6.6	72.69 6.43	57.4 6.4
P.C.D. Left/			44/45	61	61/61	60/61	58/61	44/45
Flange diameter		(mm)	52.8/53.8	70.6	69.8/69.8	68.8/69.8	66.8/69.8	52.8/ 53.8
MICRO	SPLINE		-	-	1	<b>1</b>	✓	-
HG spline (RC			-	-	-	-	-	-
HG spline (N		)	-	-	-	-	-	-
•	e (Others) vstem type		✓ Pawl type	Pawl type	Face ratchet type	Face ratchet type	Face ratchet type	Pawl type
			✓ (more than 36	Tavii type	✓ (max	✓ (max	✓ (max	✓ (more than 36
Quick en	gagement		times/ 360 deg.)	-	7.0 deg.)	7.0 deg.)	7.0 deg.)	times/360 deg.)
Seal	Hu		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Intounal	FREEHU	JB body	Contact	Contact	Contact -	Contact -	Contact	Contact ✓
internal gr	Stainle		-	-	-	-	-	-
Danel		up			Polish	Polish	Polish	-
Bearing		ne	CBN	CBN	CBN & Polish	CBN & Polish	CBN & Polish	CBN
		ridge	-	-	-	-	-	-
FREEHUB body		erial	Steel	Steel -	Aluminum	Aluminum	Aluminum	Steel -
	Mat	nish erial	Aluminum	Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Aluminum
Hub shell	Fin		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Mat	erial	Aluminum	Steel	Steel	Steel	Steel	Steel
AVIE	Fin		Anodized	-	-	-	-	-
Quick release lever		erial	-	Aluminum	-	-	-	-
		ish erial	-	Anodized Aluminum	-	-	-	-
Outal and a sec		ish	-	Anodized	-	-	-	-
Quick release housing		erial	-	Resin & Steel	-	-	-	-
housing	Mat		-	-	-	-	-	-
Quick release housing	Mate Fin	ish						
Quick release nut Disc brake rotor lock	Fin Mat	erial	-	-	-	-	-	-
Quick release nut Disc brake rotor lock ring	Fin Mat Fin	erial ish			-	-	-	-
housing  Quick release nut  Disc brake rotor lock ring  Average weight (g) (v	Fin Mat Fin	erial ish	-	-				- - 375 (ø10) 350 (ø12)

85

## FREEHUB (Disc Brake)

Ser	ries		ZEE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO		
Mode	el no.		FH-M645	FH-M6000	FH-M6010	FH-MT410	FH-MT410-B	FH-MT401
	1 Hub	Shell	Series color	Series Black	Series Black	Black	Black	Black
Color		release	-	Series Black	-	-	-	Black
20.01		Shell	-	÷	-	-	-	-
Brake		release	CENTER LOCK disc	CENTER LOCK disc	CENTER LOCK disc	CENTER LOCK disc	CENTER LOCK disc	CENTER LOCK disc
Spe	eds		8-10 speed, MTB	8-10 speed, MTB	8-10 speed, MTB	brake 12	brake 12	brake 12
	Speeds O.L.D. (mm)		11-speed	11-speed	11-speed	142	148	135
U.L.D.		RH	150	135	142	142 <b>√</b>	140 <b>√</b>	133
Spoke hole	28H e 32H		1	1	1	1	1	1
		6H	1	1	-	1	1	1
10 tooth cog	compatibl	e	-	-	-	1	1	✓
External serration	w	ith	-	-	-	-	-	-
disc brake rotor lock ring	witl	hout	✓	✓	1	-	-	-
Internal serration	w	ith	-	-	-	-	-	-
disc brake rotor lock ring	with	hout	1	1	1	-	-	-
CENTER LOCK mo	unt cover o	option	-	-	-	-	-	-
Axle fixin			Thru	Quick release	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release
		166 mm	-	-	-	-	A	-
	Steel QR	170 mm	-	-	-		-	-
		172 mm	-	-	-	-	-	-
Quick release skewer length		176 mm	-	-	-	-	-	-
iciigui		168 mm 173 mm	-	1	-	-		1
	Alloy QR	174 mm			-	-		-
		178 mm	-	-	-	-	-	-
	135	x 10	-	-	-		-	-
	135	x 12	-	-	-	-	-	-
Thru Axle (Length x	142	x 12	-	-	1	1	-	-
Inner diameter ; mm)		x 12	-	-	-		✓	-
		x 12	1	-	-	·	-	-
Flamma disa		x 12	72.4	- 57.4	57.4	55.17	- 61.6	- 55.17
Flange dist Offset			6.4	6.6	6.4	6.72	61.6 6.6	6.72
P.C.D. Left/			44/45	45	44/45	61/61	60/61	61/61
Flange diameter			52.8/ 53.8	53.8	52.8/ 53.8	69.8/69.8	68.8/69.8	69.8/69.8
MICRO		. ,	-	-	-	1	1	1
HG spline (RO	AD 11-spee	ed)	-	-	-	-	-	-
HG spline (N		d)	-	-	-	-	-	-
HG spline			<b>1</b>	<b>V</b>	1	-	-	-
Ratchet sy	stem type		Pawl type	Pawl type	Pawl type	Pawl type	Pawl type	Pawl type
Quick eng	gagement		✓ (more than 36 times/360 deg.)	-	✓ (more than 36 times/360 deg.)	✓ (36 times/360 deg.)	✓ (36 times/360 deg.)	<u> </u>
Seal	FREEHU	ub IR hody	Labyrinth & Contact Contact	Labyrinth & Contact Contact	Labyrinth & Contact Contact	Labyrinth & Contact Contact	Labyrinth & Contact Contact	Labyrinth & Contact Contact
Internal gr			Contact	Contact	Contact	- Contact	- Contact	- Contact
internal git		ess ball		-	-	-	-	-
Postine		ир	-	•	-	-	-	-
Bearing		ne	CBN	CBN	CBN	-	-	-
		ridge	-		-	1	1	1
FREEHUB body		erial	Steel	Steel	Steel	Steel	Steel	Steel
		ish erial	- Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum
Hub shell		ish	Anodized	Anodized	Anodized	Painted	Painted	Painted
		erial	Steel	Steel	Steel	Steel	Steel	Steel
Axle	Fin		-	-	-	-	-	-
Quick release lever		erial	-	Aluminum	-	-	-	Aluminum
Quick release lever		ish		Painted	-	-	-	Painted
Quick release		erial	-	Aluminum	-	-	-	Steel
housing		nish	-	Painted	-	-	-	Painted
Quick release nut		erial nish	-	Resin & Steel	-	-	-	Resin & Steel -
Disc brake rotor lock		erial	-	-	-	-	-	-
ring		ish	-	-	-	-	-	-
Average weight (g) (w			363	372	357	488	478	478
norloc	k ring) '		] 303	3/2	337	700	7/0	7/0
	te			* for Trekking				

SL

SLMT

SMSL

SMCD

SIVICR

ВВ

ВВ

ΗВ

НВ

FH

WH

### FREEHUB (Disc Brake)

Ser	Series odel no.		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode			FH-MT401-B	FH-M525A	FH-M475	FH-M4050	FH-M3050	FH-MT500
	1 Hub	Shell	Black	Black	Black	Black	Black	Black
Color	1 Quick	release	Black	Black	Black	Black	Black	Black
Color			-	Silver	Silver	Silver	-	-
	2 Hub Shell 2 Quick release		-	Black	Black	Black	-	-
Brake	Brake type		CENTER LOCK disc brake	6-bolt disc brake	6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Spe	eds		12	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	12
O.L.D.			141	135	135	135	135	135
	28		1	-	-	-	-	1
Spoke hole	32		1	1	1	1	1	1
40	36		1	<b>√</b>	<b>✓</b>	<b>√</b>	1	1
10 tooth cog			1	-	-	-	-	1
External serration disc brake rotor lock		ith	-	-	-	-	-	-
ring		nout	-	-	1	✓	✓	1
Internal serration disc brake rotor lock	w	ith	-	-	-	-	-	-
ring	with	nout	-	-	✓	✓	1	✓
CENTER LOCK mo	unt cover o	option	-	-	-	-	-	-
Axle fixin	g method		Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
		166 mm	-	-	✓	-	<b>√</b>	-
	Steel QR	170 mm	-	-	1	-	1	-
	Jucci Qil	172 mm	-	-	-	A		-
Quick release skewer		176 mm	-	-	-		-	-
length		168 mm	-	1	-	1	-	1
	Alloy QR	173 mm	-	1	1	<b>V</b>		J
	,	174 mm	1	-	-	-	-	-
		178 mm	✓	-	-	-	-	-
	135		-	-	-	-	-	-
		x 12	-	-	-		-	-
Thru Axle (Length x Inner diameter ; mm)		x 12	-	-		•	-	-
inner diameter , min,	150	x 12	-	-	-		-	-
		x 12 x 12	-	-	-	-	-	-
Flange dist		X 12	61.6	57.1	57.1	57.4	57.4	55.17
Offset			6.6	6.8	6.8	6.6	6.6	6.72
P.C.D. Left/			60/61	61/61	61/61	45/45	45/45	61/61
Flange diameter			68.8/69.8	70.6	70.6	53.8	53.8	69.8/69.8
MICRO		` ,	1			-	-	1
HG spline (RO		ed)	-	-	-	-	-	-
HG spline (N	ITB 7-speed	i)	-	-	-	-	-	-
HG spline	(Others)		-	1	1	1	✓	-
Ratchet sy	stem type		Pawl type	Pawl type	Pawl type	Pawl type	Pawl type	Pawl type
Quick eng			√ (36 times/360 deg.)	<b>/-</b>	-	-	-	1
Seal		ub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact	Labyrinth & Contact
	FREEHU		Contact	Contact		Contact	-	Contact
Internal gre			-	-	-	1	-	-
	Stainle		-	-	-	-	-	-
Bearing	Cı			- CDNI	-	- CDN	-	- CDNI
		ne	-	CBN	-	CBN	-	CBN
		ridge erial	Steel	Steel	Steel	Steel	Steel	Steel
FREEHUB body	Fin		Jieel -	J. Ceel	- Steel	- Steel	Jieei -	- Steel
	Mat		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell		ish	Painted	Anodized	Anodized	Anodized	Anodized	Painted
		erial	Steel	Steel	Steel	Steel	Steel	Steel
Axle		ish	-	-	-	-	-	-
Outals walk I		erial	Aluminum	Aluminum	Steel	Aluminum	Steel	Aluminum
Quick release lever	Fin		Painted	Anodized	Plated	Painted	Plated	Painted
Quick release	Mat	erial	Steel	Aluminum	Steel	Steel	Steel	Steel
housing	Fin		Painted	Anodized	Plated	Plated	Plated	Painted
Quick release nut	_	erial	Resin & Steel	Resin & Steel	Steel + Resin	Steel + Resin	Steel + Resin	Resin & Steel
Quick release litt	Fin		-	-	-	-	-	-
Disc brake rotor lock		erial	-	-	-	-	-	-
ring		ish	-	-	-	-	-	-
Average weight (g) (w nor loc	//o Axle, qu k ring)	iick release	488	435	445	385	386	515
	te							
140				I.	ı			1

CI-DECK

## FREEHUB (Disc Brake)

Ser	Series lodel no.		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.		FH-MT500-B	FH-MT510	FH-MT510-B	FH-MT400	FH-MT400-B	FH-MT200-B
	1 Hub Shell		Black	Black	Black	Black	Black	Black
Calan	1 Hub Shell 1 Quick release		Black	-	-	-	-	-
Color			-	-	-	-	-	-
Brake	2 Hub Shell 2 Quick release rake type		- CENTER LOCK disc brake	CENTER LOCK disc	- CENTER LOCK disc brake	- CENTER LOCK disc brake	- CENTER LOCK disc brake	- CENTER LOCK disc brake
Spe	eds		12	brake 12	12	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed
O.L.D.	). (mm)		141	142	148	142	148	141
	28	ВН	1	1	1	-	1	1
Spoke hole	32		✓	1	1	✓	✓	✓
	36		<b>√</b>	<b>√</b>	<b>1</b>	<b>√</b>	✓	<b>√</b>
10 tooth cog			✓	✓	1	-	-	-
External serration disc brake rotor lock	wi		-	-	-		-	-
ring		nout	✓	✓	1	✓	✓	✓
Internal serration disc brake rotor lock	wi		-	-	-	-	-	-
ring	with		✓	✓	1	✓	1	✓
CENTER LOCK mo Axle fixin		ption	- Quick release	- 12 mm E-THRU	- 12 mm E-THRU	- 12 mm E-THRU	- 12 mm E-THRU	- Quick release
		166 mm	-	-	-		-	-
	Steel QR	170 mm	-	-	-	-	•	-
	, <b></b>	172 mm	-	-	-		-	1
Quick release skewer length		176 mm 168 mm	-	-	-	-	-	-
		173 mm	-	-	-	-	1	-
	Alloy QR	174 mm	1	-	-	-	-	-
		178 mm	1	-	-	-	-	-
	135		-	-	-	-	-	-
	135		-	-	-	·	-	-
Thru Axle (Length x Inner diameter ; mm)	142		-	1		~	-	-
ci didinetei , iiiii)	148	x 12 x 12	-	-	-		-	-
	157		-	-		-	-	-
Flange dist			62.16	55.17	62.16	57.4	63.4	63.4
Offset			6.6	6.72	6.6	6.65	6.65	6.65
P.C.D. Left/I		, ,	60/61	61/61	60/61	44/45	44/45	45/45
Flange diameter		(mm)	68.8/69.8 <b>✓</b>	69.8/69.8	68.8/69.8	52.8/53.8	52.8/53.8	53.8
MICRO HG spline (RO		-d)	-	-	-	-	-	-
HG spline (M			-	-	-	-	-	-
HG spline			-	-	-	1	1	1
Ratchet sy	stem type		Pawl type	Pawl type	Pawl type	Pawl type	Pawl type	Pawl type
Quick eng		ı.	/	Jahaninth O Cantact	/	✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 deg.)	-
Seal	HU		Labyrinth & Contact Contact	Labyrinth & Contact Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact -
Internal gre	FREEHU		Contact	Contact	Contact -	Contact ✓	Contact ✓	-
internal gre	Stainle			-	-	-	-	-
Possina		ıp	-	-	-	-	-	-
Bearing	Co		CBN	CBN	CBN	CBN	CBN	-
		ridge	- Charl	· ·		- Charl	- Charl	-
FREEHUB body	Mate Fin	erial	Steel	Steel -	Steel -	Steel -	Steel -	Steel -
		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Fin		Painted	Painted	Painted	Painted	Painted	Painted
Axle	Mat		Steel	Steel	Steel	Steel	Steel	Steel
ANIE	Fin		-	-	-	-	-	-
Quick release lever		erial	Aluminum	-	-	-	-	Steel
		ish erial	Painted Steel	-	-	-	-	Plated Steel
Quick release housing	Material Finish		Painted	-	-	-	-	Painted
Quick release nut	Mat	erial	Resin & Steel	-	-	-	-	Steel + Resin
	Fin		-	-	-	-	-	-
Disc brake rotor lock ring		erial ish	-	-	-	-	-	-
			518	437	440	357	369	402.5
Average weight (g) (w nor loc No						-	-	-

### FREEHUB (Disc Brake)

				1		
Sei	ries		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.		FH-RM35	FH-TX505-8	FH-TX506	FH-TY505-7
	1 Hub	Shell	Black	Black	Black	Black
		release	Black	Black	Black	Black
Color		Shell	-	-	-	Diden
	2 Ouick		-	-	-	
Brake	type		CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake	CENTER LOCK disc brake
Spe	eds		8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	8-10	7
O.L.D.	(mm)		135	135	135	135
	28	ВН	<b>√</b> *	-	-	-
Spoke hole	32	2H	1	1	1	1
·	36	SH .	1	1	1	1
10 tooth cog	compatible	e	-	-	-	-
External serration	wi	th	-	-	-	-
disc brake rotor lock ring	with	nout	1	1	-	1
Internal serration	wi		-	-	_	_
disc brake rotor lock			1	1		1
ring		nout		7	-	<b>V</b>
CENTER LOCK mo		ption	-	0.11.1	-	0.11.1
Axle fixin	g method	166	Quick release	Quick release	Quick release	Quick release
		166 mm	<b>/</b>	1	1	1
	Steel QR	170 mm	✓	1	✓	1
		172 mm	-	-	-	
Quick release skewer length		176 mm	-	-	-	-
lengui		168 mm	-	-	-	-
	Alloy QR	173 mm	-	-	-	-
		174 mm	-	-	-	-
	125	178 mm	-	-	-	-
	135 135		-	-	-	
		x 12 x 12	-	-		
Thru Axle (Length x Inner diameter; mm)		x 12	-	-		
		x 12	-	-		
		x 12	-	-		-
Flange dist		X 12	57.4	57.4	56	59.5
	(mm)		6.6	6.6	6.1	5.6
P.C.D. Left/			45/45	45/45	61/61	45/45
Flange diameter		(mm)	53.8	53.8	70.6	53.8
	SPLINE	` ,	-		-	-
HG spline (RC		ed)	-	-	-	-
HG spline (N	ITB 7-speed	l)	-	-	-	1
HG spline	(Others)		1	1	1	-
Ratchet sy	stem type		Pawl type	Pawl type	Pawl type	Pawl type
Quick eng	gagement		-	-	-	-
Seal	H	ub	Contact	Contact	Contact	-
	FREEHL		-	-		-
Internal gr	ease sleeve		-	- 4	-	-
		ess ball	-	-	-	-
Bearing		ıp		-	-	-
,		ne	-	-	-	-
	Carti		Charl	Charl	- Charl	- Charl
FREEHUB body		erial	Steel	Steel	Steel	Steel
<u> </u>	Fin Mat		- Alumi <mark>num</mark>	- Aluminum	- Aluminum	- Aluminum
Hub shell	Fin		Painted	Painted	Painted	Painted
		erial	Steel	Steel	Steel	Steel
Axle		ish	-	-	-	- -
		erial	Steel	Steel	Steel	Steel
Quick release lever		ish	Plated	Plated	Plated	Plated
Quick release		erial	Steel	Steel	Steel	Steel
housing		ish	Plated	Plated	Plated	Plated
Outstand :		erial	Steel + Resin	Steel + Resin	Steel + Resin	Steel + Resin
Quick release nut		ish		-	-	-
Disc brake rotor lock		erial	-	-	-	-
ring	Fin	ish	-	-	-	-
Average weight (g) (v	v/o Axle, qu	iick release	386	403.5	457.5	
nor loc	к rıng)			.03.3	.57.5	
No	ote		* 166 mm Quick release spec.			
Note			release spec.	l .		i .

SL

SLMT

SMSL

CT

31

---

DD

RR

SMCD

SMCR

BB

BB

CS

ME

....

НВ

FH

CI-DECK

#### FREEHUB (Rim Brake)

Ser	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode		FH-TX500-8-QR	FH-TX500-8-NT	FH-TY500-7-QR	FH-TY500-7-NT
	1 Hub Shell	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	Black
Color	2 Hub Shell	Silver	Silver	-	-
	2 Quick release	Black	Black	_	_
Brake		Rim brake	Rim brake	Rim brake	Rim brake
	eds	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	7	7
O.L.D.	(mm)	135	135	135	135
O.L.D.	28H	-	-	-	-
Spoke hole	32H	-	-	1	1
эроке поте	36H	<b>,</b>	<b>√</b>	1	1
External serration	with	-	-	-	•
disc brake rotor lock					-
ring	without	<b>/</b>	1	•	<b>✓</b>
Internal serration disc brake rotor lock	with	-	-	-	-
	ring without		1	1	1
	CENTER LOCK mount cover option  Axle fixing method		- Ni	- Ovids release	-
Axle fixin		Quick release	Nut	Quick release	Nut
	166 mm	<b>/</b>	-	1	-
Quick release skewer length	168 mm	-	-	-	
skewer length	170 mm	1	-	1	-
	173 mm	-	-	-	
	135 x 10	-	-	-	·
Thru Axle (Length x	135 x 12	-	-	-	•
Inner diameter ; mm)	142 x 12	-	-	-	-
Ť	148 x 12	-	-	4 -	-
	150 x 12	-	-	-	-
Flange dist	ance (mm)	57.4	57.4	57.4	57.4
Offset	: (mm)	6.8	6.8	4.6	4.6
P.C.D. Left/		45	45	45	45
Flange diameter	Left/Right (mm)	53.8	53.8	53.8	53.8
Quick eng	gagement	-		-	-
Seal	Hub	-	-	-	-
	FREEHUB body	-	-	-	-
Internal gre	ease sleeve	-	-	-	-
	Stainless ball	-	-	-	-
Bearing	Cup	•	-	-	-
	Cone			-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel
	Finish	•	-	-	-
11. h . t . ii	Material	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Finish	Painted (Black), Clear	Painted (Black), Clear	Painted (Black)	Painted (Black)
Axle	Material	Steel	Steel	Steel	Steel
AVIG	Finish	-	-	-	-
Quick release lever	Material	Steel	-	Steel	-
Quick release lever	Finish	Plated	-	Plated	-
Quick release	Material	Steel	-	Steel	-
housing	Finish	Plated	-	Painted	-
Quick release nut	Material	Steel + Resin	-	Steel + Resin	-
Quick release flut	Finish	-	-	-	-
Disc brake rotor lock	Material	-	-	-	-
ring	Finish	-	-	-	-
Average weight (g	g) (w/o axle, quick r lockring)	-	-	-	-
No.				O.L.D. 130 mm available (refer to ROAD FREEHUB specification table)	O.L.D. 130 mm available (refer to ROAD FREEHUB specification table

#### мтв

SL

SLMT

SMSL

SMCD

SIVICR

ВВ

ВВ

ΗВ

НВ

FΗ

CI-DECK

Ser	ies	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT
Mode	el no.	WH-M8100-TL- F15-B-29	WH-M8100-TL- F15-B-275	WH-M8100-TL- R12-B-29	WH-M8100-TL- R12-B-275	WH-M8120-TL- F15-B-29	WH-M8120-TL- F15-B-275
Model	name	WH-M8100-TL	WH-M8100-TL	WH-M8100-TL	WH-M8100-TL	WH-M8120-TL	WH-M8120-TL
Spe	ec.	F15-B-29	F15-B-275	R12-B-29	R12-B-275	F15-B-29	F15-B-275
	1 Hub Shell	Black	Black	Black	Black	Series color	Series color
Color	1 Quick release	-	-	-	-	-	-
Color	2 Hub Shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Front	Rear	Rear	Front	Front
Brake	type	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Spe	eds	-	-	12	12	-	-
O.L.D.	(mm)	110	110	148	148	110	110
Whee	l Size	622 x 24C (29 inch)	584 x 24C (650B =	622 x 24C (29 inch)	584 x 24C (650B =	622 x 30C (29 inch)	584 x 30C (650B =
		022 X 24C (25 IIICII)	27.5 inch)	022 X 24C (25 IIICII)	27.5 inch)	022 X 30C (23 IIICII)	27.5 inch)
External serration disc brake rotor lock	with	-	-	-	-	-	-
ring	without	✓	✓	-	-	✓	✓
Tire	Туре	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
iire	Recommended size	29 x 2.00 - 2.35	27.5 x 2.00 - 2.35	29 x 2.00 - 2.35	27.5 x 2.00 - 2.35	29 x 2.25 - 2.60	27.5 x 2.25 - 2.60
	Height (mm)	18.8	18.8	18.8	18.8	19.8	19.8
	Width (mm)	27.9	27.9	27.9	27.9	34.7	34.7
Dies	Rim joint	Welding	Welding	Welding	Welding	Welding	Welding
Rim	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	✓	1	1	1	1	✓
	Requires rim tape	<b>√</b> (24 - 622)	<b>√</b> (24 - 584)	<b>√</b> (24 - 622)	<b>√</b> (24 - 584)	<b>√</b> (30 - 584)	<b>√</b> (30 - 584)
	Number	28	28	28	28	28	28
l	Straight pull	1	1	1	1		-
Spokes	J-bend	-	-	-	-	1	1
Sportes	Butted	2 - 1.5	2 - 1.5	2 - 1.5	2 - 1.5	2.0 - 1.8	2.0 - 1.8
ŀ	Bladed	-	-	-		-	-
Axle fixing		15 mm E-THRU	15 mm E-THRU	12 mm E-THRU	12 mm E-THRU	15 mm E-THRU	15 mm E-THRU
	133 mm	-	-	-	-	-	-
Quick release skewer	168 mm	-	-			-	-
length	173 mm	_	_	-	-	_	-
	100 x 15	-	_			_	-
Thru Axle (Length x Inner diameter; mm)	110 x 15	1	1		-	1	1
	142 x 12	-	-			-	-
· · · · · · · · · · · · · · · · · · ·	148 x 12	_	_	1	1	_	_
MICRO		-	- 4	1	1	_	-
HG spline (RO		_			-	_	-
HG spline (M		-			-	-	-
HG spline		_	-	-	_	_	-
Ratchet sy		-		Face ratchet type	Face ratchet type	-	-
Quick eng	•	-	-	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	-	-
Ť	Stainless ball	1	1	-	-	1	1
			-		_	-	-
Bearing		-	_				
Bearing	Cup				CBN & Polish	CBN	
-		- CBN Labvrinth & Contact	CBN	CBN & Polish	CBN & Polish	CBN Labvrinth & Contact	CBN
Bearing Seal	Cup Cone	CBN		CBN & Polish	CBN & Polish Labyrinth & Contact Contact	CBN Labyrinth & Contact	CBN
-	Cup Cone Hub FREEHUB body	CBN Labyrinth & Contact	CBN Labyrinth & Contact	CBN & Polish Labyrinth & Contact	Labyrinth & Contact		CBN Labyrinth & Contact
Seal Internal gre	Cup Cone Hub FREEHUB body	CBN Labyrinth & Contact	CBN Labyrinth & Contact	CBN & Polish Labyrinth & Contact Contact	Labyrinth & Contact Contact	Labyrinth & Contact -	CBN Labyrinth & Contact
Seal	Cup Cone Hub FREEHUB body ease sleeve	CBN Labyrinth & Contact -	CBN Labyrinth & Contact	CBN & Polish Labyrinth & Contact Contact -	Labyrinth & Contact Contact	Labyrinth & Contact -	CBN Labyrinth & Contact -  ✓
Seal Internal gre Rim	Cup Cone Hub FREEHUB body ease sleeve Material	CBN Labyrinth & Contact - Aluminum	CBN Labyrinth & Contact - Aluminum	CBN & Polish Labyrinth & Contact Contact - Aluminum	Labyrinth & Contact Contact - Aluminum	Labyrinth & Contact Aluminum	CBN Labyrinth & Contact -  Aluminum
Seal Internal gre	Cup Cone Hub FREEHUB body ease sleeve Material Finish	CBN Labyrinth & Contact  - Aluminum Anodized	CBN Labyrinth & Contact  - Aluminum Anodized	CBN & Polish Labyrinth & Contact Contact - Aluminum Anodized	Labyrinth & Contact Contact - Aluminum Anodized	Labyrinth & Contact  -  Aluminum Painted	CBN Labyrinth & Contact  -  Aluminum Painted
Seal Internal gre Rim Spoke	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material	CBN Labyrinth & Contact - Aluminum Anodized Stainless steel	CBN Labyrinth & Contact - Aluminum Anodized Stainless steel	CBN & Polish Labyrinth & Contact Contact - Aluminum Anodized Stainless steel	Labyrinth & Contact Contact - Aluminum Anodized Stainless steel	- Aluminum Painted Stainless steel	CBN Labyrinth & Contact Aluminum Painted Stainless steel
Seal Internal gre Rim	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish	CBN Labyrinth & Contact Aluminum Anodized Stainless steel Black	CBN Labyrinth & Contact  -  Aluminum Anodized Stainless steel Black	CBN & Polish Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black	Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black	Labyrinth & Contact  -  Aluminum  Painted  Stainless steel  Black	CBN Labyrinth & Contact  -  -  Aluminum Painted Stainless steel Black
Seal Internal gre Rim Spoke Nipple	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material	CBN Labyrinth & Contact - Aluminum Anodized Stainless steel Black Aluminum	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum	CBN & Polish Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum	Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum	Labyrinth & Contact  Aluminum Painted Stainless steel Black Aluminum	CBN Labyrinth & Contact  - Aluminum Painted Stainless steel Black Aluminum
Seal Internal gre Rim Spoke	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black	CBN Labyrinth & Contact   Aluminum Anodized Stainless steel Black Aluminum Black	CBN & Polish Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black	Labyrinth & Contact Contact Aluminum Anodized Stainless steel Black Aluminum Black	Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black	CBN Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black
Seal Internal gre Rim Spoke Nipple FREEHUB body	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black	CBN Labyrinth & Contact	CBN & Polish Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black	Labyrinth & Contact Contact Aluminum Anodized Stainless steel Black Aluminum Black	Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black	CBN Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black
Seal Internal gre Rim Spoke Nipple	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black	CBN & Polish Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum	Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum	Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black	CBN Labyrinth & Contact  -  -  Aluminum Painted Stainless steel Black Aluminum Black
Seal Internal gre Rim Spoke Nipple FREEHUB body Hub shell	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black - Aluminum	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black - Aluminum	CBN & Polish Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum - Aluminum	Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum - Aluminum	Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black Aluminum	CBN Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Aluminum
Seal Internal gre Rim Spoke Nipple FREEHUB body	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Finish Material Finish	CBN Labyrinth & Contact  Aluminum Anodized Stainless steel Black Aluminum Black  - Aluminum Anodized	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized	CBN & Polish Labyrinth & Contact Contact	Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized	Labyrinth & Contact   Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized	CBN Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized
Seal Internal gre Rim Spoke Nipple FREEHUB body Hub shell	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material	CBN Labyrinth & Contact  Aluminum Anodized Stainless steel Black Aluminum Black  Aluminum Anodized Aluminum Anodized Aluminum	CBN Labyrinth & Contact	CBN & Polish Labyrinth & Contact Contact Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum	Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum	Labyrinth & Contact  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum	CBN Labyrinth & Contact
Seal Internal gre Rim Spoke Nipple FREEHUB body Hub shell	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized	CBN & Polish Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized	Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum Anodized Aluminum Anodized	Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact  -  -  -  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized
Seal Internal gre Rim Spoke Nipple FREEHUB body Hub shell Axle	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material	CBN Labyrinth & Contact  Aluminum Anodized Stainless steel Black Aluminum Black  Aluminum Anodized Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	CBN & Polish Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum - Aluminum - Aluminum Anodized Aluminum Anodized Aluminum Anodized	Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Anodized - Anodized	CBN Labyrinth & Contact  - Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized
Seal Internal gre Rim Spoke Nipple FREEHUB body Hub shell Axle Quick release lever Quick release	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	CBN Labyrinth & Contact  Aluminum Anodized Stainless steel Black Aluminum Black  Aluminum Anodized Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact	CBN & Polish Labyrinth & Contact Contact  Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum Anodized Aluminum Anodized	Labyrinth & Contact Contact	Labyrinth & Contact  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized
Seal Internal gre Rim Spoke Nipple FREEHUB body Hub shell Axle	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color	CBN Labyrinth & Contact  Aluminum Anodized Stainless steel Black Aluminum Black  - Aluminum Anodized Aluminum Anodized Aluminum	CBN Labyrinth & Contact	CBN & Polish Labyrinth & Contact Contact Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum Anodized Aluminum	Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum Anodized Aluminum	Labyrinth & Contact  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact  -  -  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized
Seal  Internal gre Rim  Spoke  Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing	Cup Cone Hub FREEHUB body Pase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish	CBN Labyrinth & Contact	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum	CBN & Polish Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum Anodized Aluminum	Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum Anodized	Labyrinth & Contact	CBN Labyrinth & Contact  -  J Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized
Seal Internal gre Rim Spoke Nipple FREEHUB body Hub shell Axle Quick release lever Quick release	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Finish Material Finish Color Material Finish	CBN Labyrinth & Contact  Aluminum Anodized Stainless steel Black Aluminum Black  - Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	CBN & Polish Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum - Aluminum - Aluminum - Anodized Aluminum Anodized	Labyrinth & Contact  Contact  - Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Aluminum  - Aluminum  Anodized  Aluminum  Anodized  Aluminum	Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black Anodized Aluminum Anodized	CBN Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized
Seal  Internal gre Rim  Spoke  Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing  Quick release nut	Cup Cone Hub FREEHUB body Pase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish	CBN Labyrinth & Contact  Aluminum Anodized Stainless steel Black Aluminum Black  - Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact	CBN & Polish Labyrinth & Contact Contact  Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum	Labyrinth & Contact Contact Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum	Labyrinth & Contact  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized
Seal  Internal gre Rim  Spoke  Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish	CBN Labyrinth & Contact  Aluminum Anodized Stainless steel Black Aluminum Black  Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	CBN & Polish Labyrinth & Contact Contact Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Aluminum Anodized Aluminum	Labyrinth & Contact  Contact  - Aluminum  Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum  Anodized	Labyrinth & Contact  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized
Seal  Internal gre Rim  Spoke  Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing  Quick release nut  Disc brake rotor lock	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	CBN Labyrinth & Contact	CBN Labyrinth & Contact  -  Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum	CBN & Polish Labyrinth & Contact Contact	Labyrinth & Contact  Contact  - Aluminum  Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum  Anodized	Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum	CBN Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized
Seal  Internal gre Rim  Spoke  Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing  Quick release nut  Disc brake rotor lock	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	CBN & Polish Labyrinth & Contact Contact Aluminum Anodized Stainless steel Black Aluminum Black Aluminum - Aluminum Anodized Aluminum	Labyrinth & Contact  Contact  - Aluminum  Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum	Labyrinth & Contact  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact  -  J Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized
Seal  Internal gre Rim  Spoke  Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release nut  Quick release nut  Disc brake rotor lock ring	Cup Cone Hub FREEHUB body Pase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Tinish Material Finish	CBN Labyrinth & Contact	CBN Labyrinth & Contact  -  Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum	CBN & Polish Labyrinth & Contact Contact	Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum - Aluminum Anodized Aluminum	Labyrinth & Contact	CBN Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized
Seal  Internal gre Rim  Spoke  Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing  Quick release nut  Disc brake rotor lock	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	CBN Labyrinth & Contact	CBN Labyrinth & Contact  - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum	CBN & Polish Labyrinth & Contact Contact	Labyrinth & Contact Contact	Labyrinth & Contact  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact  -  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized
Seal  Internal gre Rim  Spoke  Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release nut  Quick release nut  Disc brake rotor lock ring	Cup Cone Hub FREEHUB body Pase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Tinish Material Finish	CBN Labyrinth & Contact	CBN Labyrinth & Contact	CBN & Polish Labyrinth & Contact Contact Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Contact Aluminum Anodized Aluminum Anodized Contact Cateye RR-550-WUW SW CATEYE RR-317-WUA	Labyrinth & Contact  Contact  - Aluminum  Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum	Labyrinth & Contact  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact
Seal  Internal gre Rim  Spoke  Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing  Quick release nut  Disc brake rotor lock ring  Reflector	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	CBN Labyrinth & Contact	CBN Labyrinth & Contact	CBN & Polish Labyrinth & Contact Contact	Labyrinth & Contact Contact - Aluminum Anodized Stainless steel Black Aluminum Black Aluminum - Aluminum Anodized Aluminum CATEYE RR-550-WUM SW CATEYE RR-317-WUA	Labyrinth & Contact  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact
Seal  Internal gre Rim  Spoke  Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing  Quick release nut bisc brake rotor lock ring  Reflector	Cup Cone Hub FREEHUB body ease sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	CBN Labyrinth & Contact	CBN Labyrinth & Contact	CBN & Polish Labyrinth & Contact Contact Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Contact Aluminum Anodized Aluminum Anodized Contact Cateye RR-550-WUW SW CATEYE RR-317-WUA	Labyrinth & Contact  Contact  - Aluminum  Anodized Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum	Labyrinth & Contact  Aluminum Painted Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	CBN Labyrinth & Contact

	ies	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO	SHIMANO	SHIMANO	SHIMANO
IVIOGE	el no.	WH-M8120-TL- R12-B-29	WH-M8120-TL- R12-B-275	WH-MT620-TL- F15-B-29	WH-MT620-TL- F15-B-275	WH-MT620-TL- R12-B-29	WH-MT620-TL- R12-B-275
Model	name	WH-M8120-TL	WH-M8120-TL	WH-MT620-TL	WH-MT620-TL	WH-MT620-TL	WH-MT620-TL
Spo		R12-B-29	R12-B-275	F15-B-29	F15-B-275	R12-B-29	R12-B-275
·	1 Hub Shell	Series color	Series color	Black	Black	Black	Black
	1 Quick release	-	-	-	-	-	-
Color	2 Hub Shell	-	-	-	-	-	-
	2 Quick release	_	-	_		_	
Front		Rear	Rear	Front	Front	Rear	Rear
		CENTER LOCK Disc		CENTER LOCK Disc	CENTER LOCK Disc		
Brake			CENTER LOCK Disc			CENTER LOCK Disc	CENTER LOCK Disc
Spe		12	12	-	-	12	12
O.L.D.	(mm)	148	148	110	110	148	148
Whee	l Size	622 x 30C (29 inch)	584 x 30C (650B =	622 x 30C (29 inch)	584 x 30C (650B =	622 x 30C (29 inch)	584 x 30C (650B =
- 1 2 1	141	` ′	27.5 inch)	, ,	27.5 inch)	` '	27.5 inch)
External serration disc brake rotor lock	with	-	-	-	-	-	-
ring	without	-	-	✓	✓	✓	✓
	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
Tire	Recommended size	29 x 2.25 - 2.60	27.5 x 2.25 - 2.60	29 x 2.25 - 2.60	27.5 x 2.25 - 2.60	29 x 2.25 - 2.60	27.5 x 2.25 - 2.60
	Height (mm)	19.8	19.8	19.8	19.8	19.8	19.8
	Width (mm)	34.7	34.7	34.7	34.7	34.7	34.7
<b> </b>	Rim joint	Welding	Welding	Welding	Welding	Welding	Welding
Rim	Brazed reinforcement	vveiding		vveiding	vveiding		
			-			•	-
	OFFSET RIM	<b>√</b>	<b>/</b>	<b>√</b>	(/20, 504)	(/20, F04)	<b>√</b>
	Requires rim tape	<b>√</b> (30 - 622)	<b>√</b> (30 - 584)	<b>√</b> (30 - 584)	<b>√</b> (30 - 584)	<b>√</b> (30 - 584)	<b>√</b> (30 - 584)
	Number	28	28	24	24	24	24
	Straight pull	-	-	-	-	-	-
Spokes	J-bend	✓	✓	✓	<b>✓</b>	1	✓
	Butted	2.0 - 1.8	2.0 - 1.8	-	-	-	-
	Bladed	-	-	- 4	-	-	-
Axle fixin	a method	12 mm E-THRU	12 mm E-THRU	15 mm E-THRU	15 mm E-THRU	12 mm E-THRU	12 mm E-THRU
	133 mm	-	-			-	-
Quick release skewer	168 mm	-	-			-	_
length	173 mm	-	-	-		-	-
	100 x 15	-	-		-	-	-
		-		1	-		
Thru Axle (Length x	110 x 15		-	_		-	-
Inner diameter ; mm)	142 x 12	-	-		-	-	-
	148 x 12	<b>√</b>	✓	-	-	✓	✓
MICRO		✓	<b>/</b>	-	-	✓	✓
HG spline (RO	AD 11-speed)	-	-		-	-	-
HG spline (M	ITB 7-speed)	-	-	-	-	-	-
HG spline	(Others)	-	-	-	-	-	-
Ratchet sy	stem type	Face ratchet type	Face ratchet type	-	-	Pawl type	Pawl type
Quick eng	jagement	√ (max 7.0 deg.)	√ (max 7.0 deg.)	-	-	-	-
	Stainless ball	-		-	-	-	-
Bearing	Cup	-	-	-	-	-	-
	Cone	CBN & Polish	CBN & Polish	CBN	CBN	CBN	CBN
	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Seal	FREEHUB body	Contact	Contact	-	-	Contact	Contact
Internal gre			-	_	_	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
Rim	Finish	Painted					Aluminum
	Material		Painted	Painted	Painted	Painted	Aluminum Painted
		Stainless steel			Painted	Painted	Painted
Spoke		Stainless steel	Stainless steel	Stainless steel	Painted Stainless steel	Painted Stainless steel	Painted Stainless steel
	Finish	Black	Stainless steel Black	Stainless steel Black	Painted Stainless steel Black	Painted Stainless steel Black	Painted Stainless steel Black
Spoke Nipple	Finish Material	Black Aluminum	Stainless steel Black Aluminum	Stainless steel Black Brass	Painted Stainless steel Black Brass	Painted Stainless steel Black Brass	Painted Stainless steel Black Brass
Nipple	Finish Material Finish	Black Aluminum Black	Stainless steel Black Aluminum Black	Stainless steel Black Brass Black	Painted Stainless steel Black Brass Black	Painted Stainless steel Black Brass Black	Painted Stainless steel Black Brass Black
	Finish Material Finish Material	Black Aluminum	Stainless steel Black Aluminum	Stainless steel Black Brass	Painted Stainless steel Black Brass	Painted Stainless steel Black Brass	Painted Stainless steel Black Brass
Nipple	Finish Material Finish Material Finish	Black Aluminum Black Aluminum	Stainless steel Black Aluminum Black Aluminum	Stainless steel Black Brass Black	Painted Stainless steel Black Brass Black	Painted Stainless steel Black Brass Black Steel -	Painted Stainless steel Black Brass Black Steel
Nipple	Finish Material Finish Material Finish Material	Black Aluminum Black Aluminum - Aluminum	Stainless steel Black Aluminum Black Aluminum - Aluminum	Stainless steel Black Brass Black Aluminum	Painted Stainless steel Black Brass Black Aluminum	Painted Stainless steel Black Brass Black Steel - Aluminum	Painted Stainless steel Black Brass Black Steel - Aluminum
Nipple FREEHUB body	Finish Material Finish Material Finish Material Finish	Black Aluminum Black Aluminum - Aluminum Anodized	Stainless steel Black Aluminum Black Aluminum - Aluminum Anodized	Stainless steel Black Brass Black Aluminum Painted	Painted Stainless steel Black Brass Black Aluminum Painted	Painted Stainless steel Black Brass Black Steel - Aluminum Painted	Painted Stainless steel Black Brass Black Steel - Aluminum Painted
Nipple FREEHUB body	Finish Material Finish Material Finish Material Finish Material	Black Aluminum Black Aluminum - Aluminum Anodized Aluminum	Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel
Nipple FREEHUB body Hub shell	Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized	Stainless steel Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel
Nipple FREEHUB body Hub shell Axle	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Material	Black Aluminum Black Aluminum	Stainless steel Black Aluminum Black Aluminum	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel
Nipple FREEHUB body Hub shell	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized	Stainless steel Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel
Nipple FREEHUB body Hub shell Axle	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color	Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized	Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum Anodized	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel
Nipple FREEHUB body Hub shell Axle Quick release lever Ouick release	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material	Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized	Stainless steel Black Aluminum Black Aluminum	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel
Nipple FREEHUB body Hub shell Axle Quick release lever	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish	Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized	Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum Anodized	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel
Nipple FREEHUB body Hub shell Axle Quick release lever Quick release housing	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material	Black Aluminum Black Aluminum	Stainless steel Black Aluminum Black Aluminum	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel
Nipple FREEHUB body Hub shell Axle Quick release lever Ouick release	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish	Black Aluminum Black Aluminum Aluminum Anodized Aluminum Anodized	Stainless steel Black Aluminum Black Aluminum Aluminum Anodized Aluminum Anodized	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel
Nipple FREEHUB body Hub shell Axle  Quick release lever Quick release housing Quick release nut	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Color Material Finish Material Finish Material Finish	Black Aluminum Black Aluminum Aluminum Anodized Aluminum Anodized	Stainless steel Black Aluminum Black Aluminum	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel - Aluminum Painted Steel
Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing  Quick release nut  Disc brake rotor lock	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized	Stainless steel Black Aluminum Black Aluminum	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel
Nipple FREEHUB body Hub shell Axle  Quick release lever Quick release housing Quick release nut	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish	Black Aluminum Black Aluminum	Stainless steel Black Aluminum Black Aluminum	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel
Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing  Quick release nut  Disc brake rotor lock	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Black Aluminum Black Aluminum	Stainless steel Black Aluminum Black Aluminum	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel
Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing  Quick release nut  Disc brake rotor lock ring	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Black Aluminum Black Aluminum	Stainless steel Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel
Nipple FREEHUB body Hub shell Axle Quick release lever Quick release housing Quick release nut Disc brake rotor lock	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish	Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized	Stainless steel Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel
Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing  Quick release nut  Disc brake rotor lock ring	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Black Aluminum Black Aluminum	Stainless steel Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel
Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing  Quick release nut  Disc brake rotor lock ring  Reflector	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized	Stainless steel Black Aluminum Black Aluminum	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel
Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing  Quick release nut  Disc brake rotor lock ring  Reflector	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Black Aluminum Black Aluminum	Stainless steel Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel
Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing  Quick release nut  Disc brake rotor lock ring	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish	Black Aluminum Black Aluminum	Stainless steel Black Aluminum Black Aluminum - Aluminum Anodized Aluminum Anodized	Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel	Painted Stainless steel Black Brass Black Steel Aluminum Painted Steel

SL

SLMT

SMSL

SMCD

SIVICR

ВВ

ВВ

MF

ΗВ

НВ

FΗ

CI-DECK

Ser	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	WH-MT601-TL- F15-29	WH-MT601-TL- R12-29	WH-MT601-TL- F15-275	WH-MT601-TL- R12-275	WH-MT601-TL- F15-B-29	WH-MT601-TL- R12-B-29
Model	name	WH-MT601-TL	WH-MT601-TL	WH-MT601-TL	WH-MT601-TL	WH-MT601-TL	WH-MT601-TL
Spe		F15-29	R12-29	F15-275	R12-275	F15-B-29	R12-B-29
	1 Hub Shell	Black	Black	Black	Black	Black	Black
Color	1 Quick release	-	-	-	-	-	-
ŀ	2 Hub Shell 2 Quick release	-	-	-	-	-	-
Front		Front	Rear	Front	Rear	Front	Rear
Brake		CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Spe	eds	-	12	-	12	-	12
O.L.D.	(mm)	100	142	100	142	110	148
Whee	l Size	622 x 25C (29 inch)	622 x 25C (29 inch)	584 x 25C (650B=27.5 inch)	584 x 25C (650B=27.5 inch)	622 x 25C (29 inch)	622 x 25C (29 inch)
External serration	with			,			
disc brake rotor lock ring	without						
Tire	Туре	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
ille	Recommended size	29 x 2.00 - 2.40	29 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	29 x 2.00 - 2.40	29 x 2.00 - 2.40
	Height (mm)	20.8	20.8	20.8	20.8	20.8	20.8
-	Width (mm) Rim joint	29.7 Sleeve	29.7 Sleeve	29.7 Sleeve	29.7 Sleeve	29.7 Sleeve	29.7 Sleeve
Rim	Brazed reinforcement	Jieeve -	Jieeve -	- Sieeve	- Sieeve	sieeve	- Sieeve
ŀ	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	<b>√</b> (25 - 622)	<b>√</b> (25 - 622)	<b>√</b> (25 - 584)	<b>√</b> (25 - 584)	<b>√</b> (25 - 622)	<b>√</b> (25 - 622)
	Number	24	24	24	24	24	24
Cnolina	Straight pull	-	-	-	-		-
Spokes	J-bend Butted	<b>√</b> 2	2	2	2	2	2
ŀ	Bladed	-	-	-	-	-	-
Axle fixing		15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU
Ouick release skewer	133 mm	-	-	-	-	-	-
length	168 mm	-	-	-		-	-
-	173 mm 100 x 15	-	-			-	-
Thur. Anda (Lamash	110 x 15	-	-		·	1	-
Thru Axle (Length x Inner diameter ; mm)	142 x 12	-	1	-	1	-	-
l	148 x 12	-	-		-	-	1
MICRO	SPLINE	-	✓		1	-	1
HG spline (RO		-	-		-	-	-
HG spline (M		-	-		<u> </u>	-	-
HG spline Ratchet sy		-	Pawl type		Pawl type	-	Pawl type
Quick eng			✓ (36 times/ 360		✓ (36 times/ 360	_	✓ (36 times/ 360
Quick eng			deg.)	-	deg.)		deg.)
Bearing	Stainless ball Cup	-	-	-	-	-	-
Bearing	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Casl	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	
Seal	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal gre		Almino	-	- A1	- A1	- A1	- A1
Rim	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted
6	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Spoke	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
1.6	Finish Material	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
FREEHUB body	Finish		Steel -	-	Steel -	-	Steel -
11,.110	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	-	-	-	-
Quick release lever	Material Finish		-	-	-	-	-
	Color	-	-	-	-	-	-
Quick release	Material	-	-	-	-	-	-
housing	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
Disc brake rotor lock	Finish Material	-	-	-	-	-	-
ring	Finish	-	-	-	-	-	-
-	JIS/CPSC					CATEYE RR-550-WUW	
ļ		SW CATEVE BRIEFO WILLA	SW CATEVE BRIEFO WILLA	SW	SW	SW	SW
Reflector	AS	SW	CATEYE RR-550-WUA SW	SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	SW
							CATEYE RR-317-WUA
Reflector	DIN	CATEYE RR-317-WUA					
	DIN	SW	SW	SW	SW	SW	SW
Average weight (g) (w tape, tubeless tape, v							

Ser	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	WH-MT601-TL- F15-B-275	WH-MT601-TL- R12-B-275	WH-MT600-TL- F15-29	WH-MT600-TL- F15-275	WH-MT600-TL- R12-29	WH-MT600-TL- R12-275
Model	name	WH-MT601-TL	WH-MT601-TL	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL
Sp		F15-B-275	R12-B-275	F15-29	F15-275	R12-29	R12-275
- sp	1 Hub Shell	Black	Black	Black	Black	Black	Black
	1 Quick release	BIACK -	Black -	BIACK -	BIACK -	Black -	- Black
Color				-			
	2 Hub Shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front	/Rear	Front	Rear	Front	Front	Rear	Rear
Brake	type	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Sno	eds		12	_	_	8-10 speed, MTB	8-10 speed, MTB
•						11-speed***	11-speed***
O.L.D.	. (mm)	110	148	100	100	142	142
Whee	el Size	584 x 25C (650B=27.5		622 x 24C (29 inch)	584 x 24C (650B =	622 x 24C (29 inch)	584 x 24C (650B =
		inch)	inch)	022 X 24C (25 IIICII)	27.5 inch)	022 X 24C (25 IIICII)	27.5 inch)
External serration	with			-	-	-	-
disc brake rotor lock ring	without			-	-	-	-
illig	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
Tire							
	Recommended size	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	29 x 2.00 - 2.40	27.5 x 2.00 - 2.40	29 x 2.00 - 2.40	27.5 x 2.00 - 2.40
	Height (mm)	20.8	20.8	21	21	21	21
	Width (mm)	29.7	29.7	28.8	28.8	28.8	28.8
Rim	Rim joint	Sleeve	Sleeve	Welding	Welding	Welding	Welding
NIIII	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	A	7	-
	Requires rim tape	<b>√</b> (25 - 584)	<b>√</b> (25 - 584)	<b>√</b> (24 - 622)	<b>√</b> (24 - 584)	<b>√</b> (24 - 622)	<b>√</b> (24 - 584)
	Number	24	24	24	24	24	24
		- 24	- 24				
	Straight pull			-	<b>y</b>		1
Spokes	J-bend	1	1	-	-	- '	-
	Butted	2	2	2	2	2	2
	Bladed	-	-			-	-
Axle fixin	g method	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	15 mm E-THRU	12 mm E-THRU	12 mm E-THRU
	133 mm	-	-	A	-	-	-
Quick release skewer	168 mm	_	_			-	_
length	173 mm	-	_	-	-	-	-
	100 x 15		-	1	1	<u>-</u>	-
					-		
Thru Axle (Length x	110 x 15	✓	-	-	-	-	-
Inner diameter ; mm)	142 x 12	-	-		-	✓	1
	148 x 12	-	✓	-	-	-	-
MICRO	SPLINE	-	<b>√</b>	-	-	-	-
HG spline (RO	AD 11-speed)	-	-		-	-	-
HG spline (N	ITB 7-speed)	-		-	-	-	-
HG spline		-	-	-	_	1	1
Ratchet sy	` '	_	Pawl type		-	Pawl type	Pawl type
-	• •		✓ (36 times/ 360			r avvi type	ruw type
Quick eng	gagement	-	deg.)	-	-	-	-
	Stainless ball	-	- deg.,	-	-	-	-
Possing			-		-	-	-
Bearing	Cup		CBN			CBN	CBN
	Cone	CBN		CBN	CBN	-	-
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body		Contact	-	-	Contact	Contact
Internal gr		-	-	✓	✓	✓	✓
Di	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rim	Finish	Painted	Painted	Anodized	Anodized	Anodized	Anodized
6	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Spoke	Finish	Black	Black	Black	Black	Black	Black
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Nipple	Finish	Anodized	Anodized	Black	Black	Black	Black
	Material	- Anodized	Steel	5.300	- DidCk	Steel	Steel
FREEHUB body	Finish		Jieei	-	-	- Jieei	- Jieei
		Aluminum	Aluminum				Aluminum
Hub shell	Material			Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Aluminum	Aluminum	Steel	Steel
	Finish	-	-	Anodized	Anodized	-	-
	Material	-	-	-	-	-	-
Quick release lever	Finish	-	-	-	-	-	-
	Color	-	-	-	-	-	-
Quick release	Material	-	-	-	-	-	-
housing	Finish	-	-	-	-	-	-
	Material	-	-	-	-	-	-
Ouiek volaana mut	Finish			-			
Quick release nut		-	-		- CtI	-	-
_			-	Steel	Steel	-	-
Disc brake rotor lock	Material	-			Daintad		-
_		-	-	Painted	Painted	-	
Disc brake rotor lock	Material Finish	- CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW	
Disc brake rotor lock	Material	- CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	SW
Disc brake rotor lock ring	Material Finish JIS/CPSC	- CATEYE RR-550-WUW SW CATEYE RR-550-WUA	CATEYE RR-550-WUW SW CATEYE RR-550-WUA	CATEYE RR-550-WUW SW CATEYE RR-550-WUA	CATEYE RR-550-WUW SW CATEYE RR-550-WUA	CATEYE RR-550-WUW SW CATEYE RR-550-WUA	SW CATEYE RR-550-WUA
Disc brake rotor lock	Material Finish	- CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	SW CATEYE RR-550-WUA SW
Disc brake rotor lock ring	Material Finish JIS/CPSC	- CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR317-WUA	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR317-WUA	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR317-WUA	SW CATEYE RR-550-WUA SW CATEYE RR317-WUA
Disc brake rotor lock ring Reflector	Material Finish JIS/CPSC AS DIN	- CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW	SW CATEYE RR-550-WUA SW
Disc brake rotor lock ring Reflector	Material Finish JIS/CPSC AS DIN	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR317-WUA SW	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR317-WUA SW	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR317-WUA SW	SW CATEYE RR-550-WUA SW CATEYE RR317-WUA SW
Disc brake rotor lock ring  Reflector  Average weight (g) (v tape, tubeless tape,	Material Finish JIS/CPSC	- CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR317-WUA	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR317-WUA	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR317-WUA	SW CATEYE RR-550-WUA SW CATEYE RR317-WUA
Disc brake rotor lock ring  Reflector  Average weight (g) (v tape, tubeless tape,	Material Finish JIS/CPSC AS DIN W/O Quick release, rim valve stem, lock ring)	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR317-WUA SW 964	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR317-WUA SW 923	CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR317-WUA SW	SW CATEYE RR-550-WU, SW CATEYE RR317-WUA SW 1115

#### ИΤВ

SL

SLMT

SMSL

SMCD

SIVICR

ВВ

ВВ

MF

ΗВ

НВ

FΗ

CI-DECK

	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	WH-MT600-TL- F15-B-29	WH-MT600-TL- F15-B-275	WH-MT600-TL- R12-B-29	WH-MT600-TL- R12-B-275	WH-MT501-CL- R12-B-29	WH-MT501-CL- R12-B-275
Model	name	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL	WH-MT501-CL	WH-MT501-CL
Spe		F15-B-29	F15-B-275	R12-B-29	R12-B-275	R12-B-29	R12-B-275
	1 Hub Shell	Black	Black	Black	Black	Black	Black
Color	1 Quick release	-	-	-	-	-	-
	2 Hub Shell	-	-	-	-	-	-
Front/	2 Quick release	- Front	- Front	- Rear	- Rear	- Rear	- Rear
Brake		CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
	•	CENTER EOCK DISC	CENTER EOCK DISC	8-10 speed, MTB	8-10 speed, MTB		
Spec		-	-	11-speed***	11-speed***	12	12
O.L.D.	(mm)	110	110	148	148	148	148
Wheel	l Size	622 x 24C (29 inch)	584 x 24C (650B = 27.5 inch)	622 x 24C (29 inch)	584 x 24C (650B = 27.5 inch)	622 x 24C (29 inch)	584x24C (650B=27.5 inch)
External serration	with	1	<b>√</b>	-	-	-	-
disc brake rotor lock ring	without	-	-	-	-	-	-
	Туре	Tubeless	Tubeless	Tubeless	Tubeless	Clincher	Clincher
Tire	Recommended size	29 x 2.00 - 2.40	27.5 x 2.00 - 2.40	29 x 2.00 - 2.40	27.5 x 2.00 - 2.40	29 x 2.00 - 2.40	27.5 x 2.00 - 2.40
	Height (mm)	21	21	21	21	21	21
	Width (mm)	28.8	28.8	28.8	28.8	29.6	29.6
Rim	Rim joint	Welding	Welding	Welding	Welding	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM Requires rim tape	- <b>√</b> (24 - 622)	- <b>√</b> (24 - 584)	- <b>√</b> (24 - 622)	<b>√</b> (24 - 584)	<b>√</b> (24 - 622)	- <b>√</b> (24 - 584)
	Number	24	24	24	24	24	24
	Straight pull	<b>✓</b>	<b>√</b>	<b>∠</b> 4	<b>√</b>	-	-
Spokes	J-bend	-	-	-	-	1	1
"	Butted	2	2	2	2	2.3	2.3
	Bladed	-	-	- (		-	-
Axle fixing		15 mm E-THRU	15 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
Quick release skewer	133 mm	-	-	-	•	-	-
length	168 mm 173 mm	-	-	-		-	-
	173 mm 100 x 15	-	-	-	·	-	-
Thus Aula (Lamath s	110 x 15	7	1			-	-
Thru Axle (Length x Inner diameter ; mm)	142 x 12	-	-		-	-	-
	148 x 12	-	-	1	1	1	1
MICRO	SPLINE	-	-	-		1	1
HG spline (RO	AD 11-speed)	-	-		-	-	-
HG spline (M		-	-	-	-	-	-
HG spline		-	-	7	7	-	-
Ratchet sys Quick eng		-		Pawl type	Pawl type	Pawl type	Pawl type
Quick eng	Stainless ball	-		-	-	-	-
Bearing	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Harla	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Laburinth & Contact
ا دمما	Hub	Labyrintii & Contact				Labyillitii & Contact	Labyrinth & Contact
Seal -	FREEHUB body	-		Contact	Contact	Contact	Contact
Seal Internal gre	FREEHUB body ease sleeve	1	-	Contact ✓	Contact ✓	Contact -	Contact -
	FREEHUB body ease sleeve Material	- Aluminum	Aluminum	Contact  ✓  Aluminum	Contact  ✓  Aluminum	Contact - Aluminum	Contact - Aluminum
Internal gre	FREEHUB body ease sleeve Material Finish	- Aluminum Anodized	Aluminum Anodized	Contact  Aluminum  Anodized	Contact  ✓  Aluminum  Anodized	Contact - Aluminum Anodized	Contact - Aluminum Anodized
Internal gre	FREEHUB body ease sleeve Material Finish Material	Aluminum Anodized Stainless steel	Aluminum Anodized Stainless steel	Contact  Aluminum  Anodized  Stainless steel	Contact  Aluminum  Anodized  Stainless steel	Contact - Aluminum Anodized Stainless steel	Contact - Aluminum Anodized Stainless steel
Internal gre Rim Spoke	FREEHUB body ease sleeve Material Finish	- Aluminum Anodized	Aluminum Anodized	Contact  Aluminum  Anodized	Contact  ✓  Aluminum  Anodized	Contact - Aluminum Anodized	Contact - Aluminum Anodized
Internal gre	FREEHUB body ease sleeve Material Finish Material Finish	Aluminum Anodized Stainless steel Black	Aluminum Anodized Stainless steel Black	Contact  Aluminum  Anodized  Stainless steel  Black	Contact  Aluminum  Anodized  Stainless steel  Black	Contact - Aluminum Anodized Stainless steel Black	Contact
Internal gre Rim Spoke Nipple	FREEHUB body vase sleeve Material Finish Material Finish Material Finish Material Finish Material	Aluminum Anodized Stainless steel Black Aluminum	Aluminum Anodized Stainless steel Black Aluminum	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel
Internal gre Rim Spoke	FREEHUB body vase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Anodized Stainless steel Black Aluminum Black	Aluminum Anodized Stainless steel Black Aluminum Black	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -	Contact  Aluminum  Anodized Stainless steel Black Aluminum Black Steel -	Contact	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel
Internal gre Rim Spoke Nipple	FREEHUB body vase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material	Aluminum Anodized Stainless steel Black Aluminum Black	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum	Contact  Aluminum  Anodized  Stainless steel  Black  Brass  Black  Steel  -  Aluminum	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel - Aluminum
Rim - Spoke - Nipple - FREEHUB body -	FREEHUB body vase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Anodized Stainless steel Black Aluminum Black - Aluminum Anodized	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized	Contact  Aluminum  Anodized  Stainless steel  Black  Brass  Black  Steel  -  Aluminum  Painted	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel - Aluminum Painted
Rim - Spoke - Nipple - FREEHUB body -	FREEHUB body vase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  Steel	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel - Aluminum Painted Steel	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel - Aluminum Painted Steel
Internal gre Rim Spoke Nipple FREEHUB body Hub shell	FREEHUB body ase sleeve  Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Anodized Stainless steel Black Aluminum Black - Aluminum Anodized	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  Steel  Steel  Steel  Steel	Contact  Aluminum  Anodized  Stainless steel  Black  Brass  Black  Steel  -  Aluminum  Painted	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel - Aluminum Painted
Internal gre Rim Spoke Nipple FREEHUB body Hub shell	FREEHUB body vase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material	Aluminum Anodized Stainless steel Black Aluminum Black - Aluminum Anodized Aluminum Anodized	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  Steel  -  Steel  -  Steel  -  Steel  -  Steel  -  Steel  -  Steel	Contact  Aluminum  Anodized Stainless steel Black Aluminum Black Steel  - Aluminum Anodized Steel  - Steel	Contact	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel - Aluminum Painted Steel
Internal gre Rim Spoke Nipple FREEHUB body Hub shell Axle	FREEHUB body vase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material	Aluminum Anodized Stainless steel Black Aluminum Black  Aluminum Anodized Aluminum Anodized Aluminum	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized Stainless steel Black Aluminum Black Steel - Aluminum Anodized Steel	Contact  Aluminum  Anodized  Stainless steel  Black  Brass  Black  Steel  Aluminum  Painted  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized  Stainless steel  Black  Brass  Black  Steel  -  Aluminum  Painted  Steel  -  -  -  -  -  -
Rim Spoke Nipple FREEHUB body Hub shell Axle  Quick release lever Quick release	FREEHUB body vase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material	Aluminum Anodized Stainless steel Black Aluminum Black  Aluminum Anodized Aluminum Anodized Aluminum Anodized	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel - Aluminum Painted Steel
Rim Spoke Nipple FREEHUB body Hub shell Axle  Quick release lever	FREEHUB body vase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Finish Color Material Finish	Aluminum Anodized Stainless steel Black Aluminum Black  Aluminum Anodized Aluminum Anodized Aluminum Anodized	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized Stainless steel Black Aluminum Black Steel Aluminum  Anodized Steel	Contact  Aluminum  Anodized  Stainless steel  Black  Brass  Black  Steel  -  Aluminum  Painted  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel - Aluminum Painted Steel
Rim Spoke Nipple FREEHUB body Hub shell Axle  Quick release lever Quick release	FREEHUB body Pase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Anodized Stainless steel Black Aluminum Black  Aluminum Anodized Aluminum Anodized	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized  Stainless steel  Black  Brass  Black  Steel  -  Aluminum  Painted  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized  Stainless steel  Black  Brass  Black  Steel  -  Aluminum  Painted  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -
Rim Spoke Nipple FREEHUB body Hub shell Axle Quick release lever Quick release housing Quick release nut	FREEHUB body vase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish	Aluminum Anodized Stainless steel Black Aluminum Black	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized  Stainless steel  Black  Brass  Black  Steel  Aluminum  Painted  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel - Aluminum Painted Steel
Rim Spoke Nipple FREEHUB body Hub shell Axle  Quick release lever Quick release housing Quick release nut Disc brake rotor lock	FREEHUB body vase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized  Stainless steel  Black  Brass  Black  Steel  -  Aluminum  Painted  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel - Aluminum Painted Steel
Rim Spoke Nipple FREEHUB body Hub shell Axle Quick release lever Quick release housing Quick release nut	FREEHUB body vase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Anodized Stainless steel Black Aluminum Black - Aluminum Anodized Aluminum Anodized Aluminum Anodized Steel Painted	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Steel Painted	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized  Stainless steel  Black  Brass  Black  Steel  -  Aluminum  Painted  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  - Aluminum Anodized Stainless steel Black Brass Black Steel Aluminum Painted Steel
Rim Spoke Nipple FREEHUB body Hub shell Axle  Quick release lever Quick release housing Quick release nut Disc brake rotor lock	FREEHUB body vase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Steel Painted CATEYE RR-550-WUW SW	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  CATEYE RR-550-WUW  SW	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel - Aluminum Painted Steel	Contact  - Aluminum Anodized Stainless steel Black Brass Black Steel Aluminum Painted Steel
Rim Spoke Nipple FREEHUB body Hub shell Axle  Quick release lever Quick release housing Quick release nut Disc brake rotor lock	FREEHUB body Pase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Anodized Stainless steel Black Aluminum Black  Aluminum Anodized Aluminum Anodized Aluminum Anodized Careve RR-550-WUW CATEYE RR-550-WUW	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Steel Painted CATEYE RR-550-WUW CATEYE RR-550-WUA	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized Stainless steel Black Aluminum Black Steel Aluminum  Anodized  Steel	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel - Aluminum Painted Steel	Contact  Aluminum Anodized Stainless steel Black Brass Black Steel  - Aluminum Painted Steel
Internal gre Rim Spoke Nipple FREEHUB body Hub shell Axle Quick release lever Quick release housing Quick release nut Disc brake rotor lock	FREEHUB body Pase sleeve Material Finish	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Steel Painted CATEYE RR-550-WUA SW CATEYE RR-550-WUA	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  - Aluminum  Anodized  Steel	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  Aluminum  Anodized  Steel	Contact  Aluminum  Anodized  Stainless steel  Black  Brass  Black  Steel  Aluminum  Painted  Steel  -  -  CATEYE RR-550-WUM SW  CATEYE RR-550-WUA	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel Aluminum Painted Steel
Internal gre Rim Spoke Nipple FREEHUB body Hub shell Axle Quick release lever Quick release housing Quick release nut Disc brake rotor lock	FREEHUB body Pase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Anodized Stainless steel Black Aluminum Black  Aluminum Anodized Aluminum Anodized Aluminum Anodized Careve RR-550-WUW CATEYE RR-550-WUW	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Steel Painted CATEYE RR-550-WUW CATEYE RR-550-WUA	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  -  -  -  -  -  -  -  -  -  -  -	Contact  Aluminum  Anodized Stainless steel Black Aluminum Black Steel Aluminum  Anodized  Steel	Contact - Aluminum Anodized Stainless steel Black Brass Black Steel - Aluminum Painted Steel	Contact  Aluminum Anodized Stainless steel Black Brass Black Steel  - Aluminum Painted Steel
Rim Spoke Nipple FREEHUB body Hub shell Axle Quick release lever Quick release nut Disc brake rotor lock ring Reflector	FREEHUB body Pase sleeve Material Finish	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized Care Re-550-WUW SW CATEYE RR-550-WUA SW	Aluminum Anodized Stainless steel Black Aluminum Black	Contact  Aluminum Anodized Stainless steel Black Aluminum Black Steel Aluminum Anodized Steel	Contact  Aluminum  Anodized Stainless steel Black Aluminum Black Steel Aluminum Anodized Steel CATEYE RR-550-WUW SW  CATEYE RR-550-WUA SW  CATEYE RR-550-WUA SW	Contact	Contact  - Aluminum Anodized Stainless steel Black Brass Black Steel Aluminum Painted Steel
Internal gre Rim Spoke Nipple FREEHUB body Hub shell Axle  Quick release lever Quick release housing Quick release nut Disc brake rotor lock	FREEHUB body lase sleeve Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish JIS/CPSC AS DIN V/O Quick release, rim alve stem, lock ring)	Aluminum Anodized Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized Careye RR-550-WUW SW CATEYE RR-517-WUA	Aluminum Anodized Stainless steel Black Aluminum Black	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  -  CATEYE RR-550-WUW  SW  CATEYE RR-317-WUA	Contact  Aluminum  Anodized  Stainless steel  Black  Aluminum  Black  Steel  -  Aluminum  Anodized  Steel  -  CATEYE RR-550-WUW  SW  CATEYE RR-550-WUA  SW  CATEYE RR-550-WUA	Contact  Aluminum  Anodized  Stainless steel  Black  Brass  Black  Steel  Aluminum  Painted  Steel  -  CATEYE RR-550-WUW  SW  CATEYE RR-550-WUA  SW  CATEYE RR-550-WUA	Contact  - Aluminum Anodized Stainless steel Black Brass Black Steel Aluminum Painted Steel

Ser	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	WH-MT500-CL-F-275	WH-MT500-CL-R-275	WH-MT500-CL- F15-275	WH-MT500-CL- R12-275	WH-MT500-CL- F15-B-275	WH-MT500-CL- R12-B-275
Model	namo	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL
Spo		F-275	R-275	F15-275	R12-275	F15-B-275	R12-B-275
	1 Hub Shell	Black	Black	Black	Black	Black	Black
Color	1 Quick release	Black	Black	-	-	-	-
Color	2 Hub Shell	-	-	-	-	-	-
	2 Quick release		-	-	-		-
Front. Brake		Front CENTER LOCK Disc	Rear CENTER LOCK Disc	Front CENTER LOCK Disc	Rear CENTER LOCK Disc	Front CENTER LOCK Disc	Rear CENTER LOCK Disc
		CLIVILIX LOCK DISC	8-10 speed, MTB	CLIVIER LOCK DISC	8-10 speed, MTB	CENTER LOCK DISC	8-10 speed, MTB
Spe		-	11-speed***	-	11-speed***	-	11-speed***
O.L.D.	(mm)	100	135	100	142	110	148
Whee	l Size	584 x 24C (650B = 27.5 inch)	584 x 24C (650B = 27.5 inch)	584 x 24C (650B = 27.5 inch)	584 x 24C (650B = 27.5 inch)	584 x 24C (650B = 27.5 inch)	584 x 24C (650B = 27.5 inch)
External serration	with	-	-	1	-	1	-
disc brake rotor lock ring	without	-	-	-	-	-	-
Tire	Туре	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
Tire	Recommended size	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40
	Height (mm)	21	21	21	21	21	21
	Width (mm)	29.6	29.6	29.6	29.6	29.6	29.6
Rim	Rim joint Brazed reinforcement	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	OFFSET RIM	-	-	-	-		-
	Requires rim tape	<b>√</b> (24 - 584)	<b>√</b> (24 - 584)	<b>√</b> (24 - 584)	<b>√</b> (24 - 584)	<b>√</b> (24 - 584)	<b>√</b> (24 - 584)
	Number	24	24	24	24	24	24
	Straight pull	-	-	-		-	-
Spokes	J-bend	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
	Butted Bladed	2.3	2.3	2.3	2.3	2.3	2.3
Axle fixing		Quick release	Ouick release	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU
	133 mm	Quick release ✓	- Quick release	-	-	-	-
Quick release skewer length	168 mm	-	1			-	-
leligtii	173 mm	-	1	-	-	-	-
	100 x 15	-	-	1	-	-	-
Thru Axle (Length x	110 x 15	-	-	·	-	1	-
Inner diameter ; mm)	142 x 12	-	-		1	-	-
MICRO	148 x 12	-	-	-	-	-	1
HG spline (RO		-			-	-	-
HG spline (M		-		-	-	-	-
HG spline	(Others)	-	1	-	1	-	1
Ratchet sy		-	Pawl type	-	Pawl type	-	Pawl type
Quick eng		-	-	-	-	-	-
Bearing	Stainless ball  Cup	-	-	-	-	-	-
bearing	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Seal	FREEHUB body	-		-	Contact	-	Contact
Internal gre		1	J	1	<b>√</b>	1	1
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
<u> </u>	Finish Material	Anodized Stainless steel	Anodized Stainless steel	Anodized Stainless steel	Anodized Stainless steel	Anodized Stainless steel	Anodized Stainless steel
Spoke	Finish	Black	Black	Black	Black	Black	Black
Min I -	Material	Brass	Brass	Brass	Brass	Brass	Brass
Nipple	Finish	Black	Black	Black	Black	Black	Black
FREEHUB body	Material		-	-	Steel	-	Steel
,	Finish	Aluminum	Aluminum	Alumainum	Alumainum	Alumain	Aluminum
Hub shell	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted
	Material	Steel	Steel	Aluminum	Steel	Aluminum	Steel
Axle	Finish		-	Anodized	-	Anodized	-
	Material	Aluminum	Aluminum	-	-	-	-
Quick release lever	Finish	Painted	Painted	-	-	-	-
	Color	Black	Black	-	-	-	-
Quick release housing	Ma <mark>terial</mark> Finish	Steel Painted	Steel Painted	-	-	-	-
	Material	Resin & Steel	Resin & Steel	-	-	-	-
Quick release nut	Finish	-	-	-	-	-	-
Disc brake rotor lock	Material	-	-	Steel	-	Steel	-
ring	Finish	-	-	Painted	-	Painted	-
	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
Reflector	AS	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA
	DIN	CATEYE RR317-WUA	SW CATEYE RR317-WUA	SW CATEYE RR317-WUA	CATEYE RR317-WUA	CATEYE RR317-WUA	CATEYE RR317-WUA
Average weight (g) (v	v/o Quick release, rim	SW 962	SW 1147	SW 936	SW 1133	SW 946	SW 1145
tape, tubeless tape, v	raive stem, lock ring)	302	*** Spoke protector	330	*** Spoke protector	3.5	*** Spoke protector
No	te	-	is available only for 9 & 10-speed	-	is available only for 9 & 10-speed	-	is available only for 9 & 10-speed

#### МТВ

SL

SLMT

SMSL

SMCD

SIVICR

ВВ

ВВ

MF

ΗВ

НВ

FΗ

CI-DECK

Ser	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	WH-MT500-CL-F-29	WH-MT500-CL-R-29	WH-MT500-CL- F15-29	WH-MT500-CL- R12-29	WH-MT500-CL- F15-B-29	WH-MT500-CL- R12-B-29
Model	namo	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL
Spo		F-29	R-29	F15-29	R12-29	F15-B-29	R12-B-29
	1 Hub Shell	Black	Black	Black	Black	Black	Black
Color	1 Quick release	Black	Black	-	-	-	-
Color	2 Hub Shell	-	-	-	-	-	-
2 Quick release		-	-	-	-	<u>-</u>	-
Front		Front CENTER LOCK Disc	Rear CENTER LOCK Disc	Front CENTER LOCK Disc	Rear CENTER LOCK Disc	Front CENTER LOCK Disc	Rear CENTER LOCK Disc
Brake		CENTER LOCK Disc	8-10 speed, MTB	CENTER LOCK Disc	8-10 speed, MTB	CENTER LOCK Disc	8-10 speed, MTB
Spe	eds	-	11-speed***	-	11-speed***	-	11-speed***
O.L.D.		100	135	100	142	110	148
Whee		622 x 24C (29 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)
External serration disc brake rotor lock	with	-	-	<b>,</b>	-	<b>1</b>	-
ring	without	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
Tire	Type Recommended size	29 x 2.00 - 2.35	29 x 2.00 - 2.35	29 x 2.00 - 2.35	29 x 2.00 - 2.35	29 x 2.00 - 2.35	29 x 2.00 - 2.35
	Height (mm)	23 x 2.00 - 2.33	21	21	29 x 2.00 - 2.33	21	23 x 2.00 - 2.33
	Width (mm)	29.6	29.6	29.6	29.6	29.6	29.6
Rim	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
Milli	Brazed reinforcement	-	-	-	-		-
	OFFSET RIM	- (24, 622)	- <b>√</b> (24 - 622)	- (24, 622)	<b>√</b> (24 - 622)	- <b>√</b> (24 - 622)	- (24, 622)
	Requires rim tape Number	<b>√</b> (24 - 622) 24	<b>√</b> (24 - 622) 24	<b>√</b> (24 - 622) 24	<b>√</b> (24 - 622) 24	24	<b>√</b> (24 - 622) 24
	Straight pull	-	-	-	-	-	-
Spokes	J-bend	1	1	1	1	1	1
·	Butted	2.3	2.3	2.3	2.3	2.3	2.3
	Bladed			-	-		-
Axle fixin		Quick release	Quick release	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU
Quick release skewer	133 mm	1	-			-	-
length	168 mm 173 mm	-	1			-	-
	100 x 15	-	-		-	-	-
Thru Axle (Length x	110 x 15	-	-	<u> </u>	-	1	-
Inner diamèter ; mm)	142 x 12	-	-	-	1	-	-
	148 x 12	-	-	-	-	-	✓
MICRO		-	-	-	-	-	-
HG spline (RO HG spline (M		-	-		-	-	-
HG spline		-	1		1	-	1
Ratchet sy		-	Pawl type	-	Pawl type	-	Pawl type
Quick eng		-		-	-	-	-
	Stainless ball	-	-	-	-	-	-
Bearing	Cup Cone	- CBN	- CBN	CBN	CBN	- CBN	- CBN
	Hub	Labvrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact		Labvrinth & Contact
Seal	FREEHUB body	-	-	-	Contact	-	Contact
Internal gre	ease sleeve	1	1	1	1	1	✓
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized Stainless steel	Anodized Stainless stank	Anodized	Anodized	Anodized	Anodized
Spoke	Material Finish	Stainless steel  Black	Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black
	Material	Brass	Brass	Brass	Brass	Brass	Brass
Nipple	Finish	Black	Black	Black	Black	Black	Black
FREEHUB body	Material	-	-	-	Steel	-	Steel
	Finish	Ali ma'r m	A la series series	- Al. mer !	A la una (	- Al. mer !	- Al.,,,,,,
Hub shell	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted
	Material	Steel	Steel	Aluminum	Steel	Aluminum	Steel
Axle	Finish	-	-	Anodized	-	Anodized	-
	Material	Aluminum	Aluminum	-	-	-	-
Quick release lever	Finish	Painted	Painted	-	-	-	-
	Color	Black	Black	-	-	-	-
Quick release housing	Material Finish	Steel Painted	Steel Painted	-	-	-	-
	Material	Resin & Steel	Resin & Steel	-	-	-	-
Quick release nut	Finish	-	-	-	-	-	-
	Material	-	-	Steel	-	Steel	-
Disc brake rotor lock	Finish	-	CATEVE DD FF0 14"	Painted	CATEVE DD EEG 14"	Painted	CATEVE DD EEG 14##
Disc brake rotor lock ring	1 1111311		1. ALEYE RR-550-\A/I  \A/		CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	JIS/CPSC			SW			
ring	JIS/CPSC	CATEYE RR-550-WUW SW CATEYE RR-550-WUA	SW	SW CATEYE RR-550-WUA		CATEYE RR-550-WUA	
		SW CATEYE RR-550-WUA SW	SW CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
ring	JIS/CPSC	SW CATEYE RR-550-WUA SW CATEYE RR317-WUA	SW CATEYE RR-550-WUA SW CATEYE RR317-WUA	CATEYE RR-550-WUA SW CATEYE RR317-WUA	CATEYE RR-550-WUA SW CATEYE RR317-WUA	CATEYE RR-550-WUA SW CATEYE RR317-WUA	CATEYE RR-550-WUA SW CATEYE RR317-WUA
ring Reflector	JIS/CPSC AS DIN	SW CATEYE RR-550-WUA SW CATEYE RR317-WUA SW	SW CATEYE RR-550-WUA SW CATEYE RR317-WUA SW	CATEYE RR-550-WUA SW CATEYE RR317-WUA SW	CATEYE RR-550-WUA SW CATEYE RR317-WUA SW	CATEYE RR-550-WUA SW CATEYE RR317-WUA SW	CATEYE RR-550-WUA SW CATEYE RR317-WUA SW
ring	JIS/CPSC  AS  DIN  V/o Quick release, rim /alve stem, lock ring)	SW CATEYE RR-550-WUA SW CATEYE RR317-WUA	SW CATEYE RR-550-WUA SW CATEYE RR317-WUA	CATEYE RR-550-WUA SW CATEYE RR317-WUA	CATEYE RR-550-WUA SW CATEYE RR317-WUA	CATEYE RR-550-WUA SW CATEYE RR317-WUA	CATEYE RR-550-WUA SW CATEYE RR317-WUA

Sei	ies	SHIMANO
Mode	el no.	WH-MT15-A-F15-275
Model	name	WH-MT15-A
	ec.	F15-275
	1 Hub Shell	Black
Color	1 Quick release	Black
	2 Hub Shell	White
Eront	2 Quick release /Rear	Black Front
	type	CENTER LOCK Disc
	eds	-
	(mm)	100
Whee	l Size	584 x 19C (650B =
		27.5 inch)
External serration disc brake rotor lock	with	✓
ring	without	-
Tire	Туре	Clincher
	Recommended size	27.5 x 1.90 - 2.25
	Height (mm) Width (mm)	21 24.6
	Rim joint	Sleeve
Rim	Brazed reinforcement	-
	OFFSET RIM	-
	Requires rim tape	<b>√</b> (20-584)
	Number	28
	Straight pull	-
Spokes	J-bend	1
	Butted	2.0
	Bladed	<b>√</b>
Axle fixin	g method	15 mm E-THRU
Quick release skewer	133 mm	-
length	168 mm	-
	173 mm	-
	100 x 15 110 x 15	<b>√</b>
Thru Axle (Length x Inner diameter; mm)	142 x 12	-
inner didineter , inni,	142 x 12	
MICRO	SPLINE	<u> </u>
	AD 11-speed)	-
	ITB 7-speed)	-
	(Others)	-
Ratchet sy	stem type	-
Quick eng	gagement	-
	Stainless ball	-
Bearing	Cup	- CDN
	Cone Hub	CBN
Seal	FREEHUB body	Labyrinth & Contact
Internal ar	ease sleeve	
internar gr	Material	Aluminum
Rim		
	Finish Material	Anodized (Black rim
Rim Spoke	Finish	
Spoke	Finish Material Finish Material	Anodized (Black rim Stainless steel Black Brass
	Finish Material Finish Material Finish	Anodized (Black rim Stainless steel Black
Spoke Nipple	Finish Material Finish Material Finish Material	Anodized (Black rim Stainless steel Black Brass
Spoke	Finish Material Finish Material Finish Material Finish	Anodized (Black rim Stainless steel Black Brass Silver
Spoke Nipple	Finish Material Finish Material Finish Material Finish Material Finish	Anodized (Black rim Stainless steel Black Brass Silver
Spoke Nipple FREEHUB body	Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Anodized (Black rim Stainless steel Black Brass Silver 
Spoke Nipple FREEHUB body	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Anodized (Black rim Stainless steel Black Brass Silver - Aluminum Painted Aluminum
Spoke Nipple FREEHUB body Hub shell	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Anodized (Black rim Stainless steel Black Brass Silver - - Aluminum Painted Aluminum Anodized
Spoke Nipple FREEHUB body Hub shell Axle	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material	Anodized (Black rim Stainless steel Black Brass Silver - Aluminum Painted Aluminum
Spoke Nipple FREEHUB body Hub shell	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Anodized (Black rim Stainless steel Black Brass Silver - - Aluminum Painted Aluminum Anodized
Spoke Nipple FREEHUB body Hub shell Axle Quick release lever	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material	Anodized (Black rim Stainless steel Black Brass Silver  Aluminum Painted Aluminum Anodized
Spoke Nipple FREEHUB body Hub shell Axle	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color	Anodized (Black rim Stainless steel Black Brass Silver  Aluminum Painted Aluminum Anodized
Spoke  Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Anodized (Black rim Stainless steel Black Brass Silver - - Aluminum Painted Aluminum Anodized - - -
Spoke Nipple FREEHUB body Hub shell Axle Quick release lever Ouick release	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Color Material Finish Material Finish Color Material Finish Material Finish	Anodized (Black rim Stainless steel Black Brass Silver - - Aluminum Painted Aluminum Anodized - - - -
Spoke Nipple FREEHUB body Hub shell Axle Quick release lever Quick release housing Quick release nut Disc brake rotor lock	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish	Anodized (Black rim Stainless steel Black Brass Silver - - - - - - - - - - - - - - - - - - -
Spoke  Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing  Quick release nut	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Color Material Finish Material Finish Color Material Finish Material Finish	Anodized (Black rim Stainless steel Black Brass Silver - - - Aluminum Painted Aluminum Anodized - - - - - - - - - - - - - - - - - - -
Spoke Nipple FREEHUB body Hub shell Axle Quick release lever Quick release housing Quick release nut Disc brake rotor lock	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish	Anodized (Black rim Stainless steel Black Brass Silver  Aluminum Painted Aluminum Anodized Steel Painted CATEYE RR-550-WUV SW
Spoke Nipple FREEHUB body Hub shell Axle Quick release lever Quick release housing Quick release nut Disc brake rotor lock	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish	Anodized (Black rim Stainless steel Black Brass Silver  Aluminum Painted Aluminum Anodized Steel Painted CATEYE RR-550-WUV SW CATEYE RR-550-WUV SW
Spoke Nipple FREEHUB body Hub shell Axle Quick release lever Quick release housing Quick release nut Disc brake rotor lock ring	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish JIS/CPSC	Anodized (Black rim Stainless steel Black Brass Silver Aluminum Painted Aluminum Anodized Steel Painted CATEYE RR-550-WUA SW CATEYE RR-357-WUA SW
Spoke  Nipple  FREEHUB body  Hub shell  Axle  Quick release lever  Quick release housing  Quick release nut  Disc brake rotor lock ring  Reflector	Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Anodized (Black rim Stainless steel Black Brass Silver Aluminum Painted Aluminum Anodized Steel Painted CATEYE RR-550-WUV SW CATEYE RR-550-WUV CATEYE RR-517-WUA



#### мтв

#### CI-DECK

Ser	ries	SHIMANO CI-DECK	SHIMANO CI-DECK	SHIMANO CI-DECK	SHIMANO CI-DECK	SHIMANO CI-DECK	SHIMANO CI-DECK
Mode	el no.	ID-CI300-7R	ID-CI300-6R	ID-CI300-LC	ID-CI400	SM-CI300	SM-CI301
Compatible s	shifting lever	SL-RS34/RS35/RS36/ RS45/RS47	SL-RS34/RS35/RS36/ RS45/RS47	-	-	-	-
Front	speeds	-	-	-	-	-	-
Rear s	peeds	7	6	-	-	-	-
Shifting lever compa	atible rear derailleur pe	Top normal	Top normal	-	-	-	-
CI-DEC	K cable	Stainless steel	Stainless steel	-	-	-	-
CI-DECK o	able type	TX50	TX50	-	-	-	-
OPTICAL GEAR	Front	-	-	-	-	-	-
DISPLAY	Rear	7-speed	6-speed	-	-	-	-
	22.2	-	-	-	-	-	-
Clamp band diameter (mm)	25	-	-	-	-	-	-
	22.2/25.0	-	-	-	-	1	-
CI-DECK upper	Material	Resin	Resin	Resin	4	-	-
cover	Color	Painted	Painted	Painted	-	-	-
CL DECK hade	Material	Resin	Resin	Resin	-	-	-
CI-DECK body	Color	-	-	-		-	-
Clamp band	Material	-	-			Resin	-
Clamp band	Color	-	-			-	-
No	ote	Use with SM-CI300	Use with SM-CI300	Accessory cover, use with SM-CI300	Analog compass, use with SM-CI300	Bracket for ID- CI300/ID-CI400/SC- CI300	Cowling use with SM-CI300



SL

SLMT

SMSL BL

BL

SI

FD

BR

BR

BR

SMCD

SMCR

ВВ

ВВ

~<

MF

НВ

НВ

---

FH

. . . .

CI-DECK



# TREKKING

	Page	
Shifting Lever	102	SL
Brake Lever (Hydraulic Disc Brake)	103	BL
Brake Lever	104	BL
Rear Derailleur	105	RD
Front Derailleur	106	FD
Brake (V-BRAKE)	108	BR
Crankset	109	FC
Front Hub (Rim/Disc Brake)	111	НВ
FREEHUB (Rim/Disc Brake)	112	FH



### Shifting Lever

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE	SHIMANO DEORE
Model no.		SL-T8000-R	SL-T8000-L	SL-T6000-R	SL-T6000-L
Color	1	Series color	Series color	Series black	Series black
	2	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	3	-	2/3
Rear speeds		10	-	10	-
Compatible rea	r derailleur type	MTB 10-speed	-	MTB 10-speed	-
I-SPEC B-type	e compatible	-	-	-	-
I-SPEC II o	ompatible	-	-	-	-
Shifting lever	position adjust	-	-	-	-
Shifting lever	rotation adjust	-	-	-	-
Shifting lever cable adjust		1	1	1	1
2/3 mode	converter	-	-	-	
Max. multiple shift	ts (Main lever/rear)	4	-	3	-
	MULTI RELEASE	1	-	-	-
Release function	INSTANT RELEASE	1	1	-	-
	2-WAY RELEASE	1	1	1	1
	with	1	1	1	1
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-
	without	-	-		-
Multi-Bearing construction		2	2		-
Shifting lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
Shifting lever bracket	Finish	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	GFRP & Steel	GFRP & Steel
	Finish	Painted	Painted	-	-
	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
Release lever body	Finish			-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP
	Finish	Painted	Painted	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		126	120	-	-
Note					

#### TREKKING

## Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE
Model no.		BL-T8100	BL-T8000	BL-T6000
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever siz	e (finger)	3	3	3
	1	Series color	Series color	Series black
Color	2	-	-	Series silver
	3	-	-	Black (SHIMANO logo)*
Brake h	ose (Kit)	SM-BH90-SBM	SM-BH90-SBM	SM-BH59-JK-SS
Hose	joint	Banjo	Banjo	Straight
Brake hose color	1	Black	Black	Black
(Kit)	2	-	-	-
J-Kit spec	(for OEM)	1	1	1
Recommended brake caliper		BR-M8100 BR-M8120	BR-M8000	BR-M6000
С	Oil		SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		1	1	1
5 1 11 .	Toolless	1	1	-
Reach adjust	Tool	-	-	1
Free stro	ke adjust	-	-	-
SERVO	WAVE	-	-	-
	Open clamp	1	1	1
Clamp band	I-SPEC II	1	1	1
	I-SPEC	-		-
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel
	Finish	Painted	Painted	-
Brake lever	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Average weight (g) (kit for front 800 mm, w/ 160 mm recommend disc brake rotor, w/ lock ring, w/o adapter, w/ 2 bolts, w/ Resin pad)		108 **	108 **	-
Note		** Single item	** Single item	* T6000 kit only



DD

FC

HR

EH



#### Brake Lever

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO	SHIMANO
Model no.		BL-T610	BL-T611	BL-T4000	BL-T4010
Color	1	Black	Black	Black	Black
	2	-	-	Silver	Silver
	3	-	-	-	-
	V-BRAKE	✓	<b>√</b> *	✓	<b>√</b> *
	Mechanical disc brake (MTB)	1	<b>√</b> *	1	<b>√</b> *
	Mechanical disc brake (Road)	-	-	-	-
Compatible brake type	Caliper (NEW SUPER SLR)	-	-	-	-
	Caliper (SUPER SLR)	-	-	-	-
	Cantilever brake	-	-	-	-
	Roller brake	-	-	-	-
Recommended	V-BRAKE	-	SM-PM70	-	SM-PM40
POWER MODULATOR	Mechanical disc brake (MTB)	-	SM-PM50	-	SM-PM50
Clamp band	Open clamp band	✓	1	-	-
	I-SPEC	<b>√</b> **	<b>√</b> **	-	-
	Diameter (mm)	22.2	22.2	22.2	22.2
Internal bu	ımper stop	✓	1	1	1
Lever siz	e (finger)	2	3	2	3
Brake ca	ble type	T-type	T-type	T-type	T-type
Power a	adjuster	-	-	-	-
SERVO WAVE		-	-		-
Reach adjust		1	1	1	1
Cable	adjust	1	_	1	✓
Cable ad	just type	Two hand	Two hand	Two hand	Two hand
	Material	Aluminum	Aluminum	Aluminum	Aluminum
Brake lever	Finish	Anodized	Anodized	Anodized	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Stainless clamp bolt		1	1	1	1
Average weight (g)			-	-	-
Note		For cross bike ** I-SPEC B-type	For Trekking  * POWER  MODULATOR must be used for front brake  ** I-SPEC B-type		* POWER MODULATOR must be used for front brake

#### TREKKING

### Rear Derailleur

Series		SHIMANO DEORE XT	SHIMANO DEORE	SHIMANO ALIVIO	SHIMANO ACERA
Model no.		RD-T8000-SGS	RD-T6000-SGS	RD-T4000	RD-T3000
Pulley cage		SGS	SGS	SGS	SGS
	1	Series color	Series black	Black	Black
Color	2	-	-	Silver	Silver
Rear speeds		10	10	9	9
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
	SHIMANO SHADOW	✓		-	
Top-Normal spring type	RD SHIMANO SHADOW	<u> </u>	·	<u> </u>	<u> </u>
	RD+ Double servo	<u> </u>	-	-	1
	Direct attachment		-	· · ·	-
	(Conventional)	<b>,</b>	<b>,</b>	<b>,</b>	✓
Mount	Direct mount compatible	<b>√</b> *	<b>√</b> *	-	-
	Riveted adapter (Road type)	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-
Mode co	onverter	-	-	-	-
Cable a	djuster	-	-	1	1
Max. front	difference	22T	22T	22T	22T
Total ca	apacity	47T	47T	45T	45 <b>T</b>
	Max.	36T	36T	34T	34T
Low sprocket	Min.	32T	32T	28T	28T
	Max.	11T	11T	11T	11T
Top sprocket	Min.	11T	11T	11T	11T
Fluoric coated	link bushings	4	3	2	1
	G pulley bearing	Sealed Bearing	-	-	-
	T pulley bearing	Sealed Bearing	-	-	-
Dullov	Teeth	11T	111	11T	11T
Pulley	Bolts material	Stainless steel	Stainless steel	Steel	Steel
	Sunken type pulley bolt	1	1	1	1
	Material	Aluminum	Steel	-	-
Bracket	Finish	Painted	Painted	-	-
	Hollow axle	1	1		-
B-axle	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-
	Hollow axle	1	1	-	-
B-axle 2	Material	Stainless steel	Stainless steel	-	-
	Finish	-		-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum
Bracket body	Finish	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel
P-axle	Finish	-	-	Painted	Painted
Dieta basika	Material	Aluminum	GFRP	Resin	Resin
Plate body	Finish	Painted	-	Painted	Painted
	Material	Aluminum	Aluminum	Aluminum	Steel
Outer link	Finish	Painted	Painted	Painted	Painted
	Material	Aluminum	Steel	Steel	Steel
Inner link	Finish	Painted	Painted	Painted	Painted
_	Material	Aluminum	Steel	Steel	Steel
Outer plate	Finish	Painted	Painted	Painted	Painted
	Material	Aluminum	Steel	Steel	Steel
Inner plate	Finish	Painted	Painted	Painted	Painted
	Material	Stainless steel	Steel	Stainless steel	Stainless steel
Cable fixing bolt	Finish	Plated	Plated	-	-
Charles a P. of	Material	Steel	Steel	Stainless steel	Steel
Stroke adjusting screw	Finish	Plated	Plated	-	Plated
Δverage v		253	-	-	- Inter
Average weight (g)  Note		* Possible to attach to direct mount in case bracket is removed.	* Possible to attach to direct mount in case bracket is removed.		-

SL

RI

BL

RD

-D

FH

#### Front Derailleur

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	
Mode	el no.		FD-T8000-H-3	FD-T8000-L-3	FD-T8000-L-6	FD-T6000-H3	FD-T6000-L3	FD-T6000-L6
		1	Series color	Series color	Series color	Series black	Series black	Series black
Color	Color 2		-	-	-	-	Series silver	Series silver
	Fre	ont	3	3	3	3	3	3
Speeds	Re	ar	10	10	10	10	10	10
Compatil	ole chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
	TOP S	WING	-	1	✓	-	1	✓
Action	Down	Swing	1	-	-	1	-	-
	SIDE S	WING	-	-	-	-	-	-
		28.6	✓* (w/ S size adapter)	✓* (w/ S size adapter)	✓* (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)
	Clamp Band (mm)	31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	✓	1	1	1	1	1
Mount		With bottom bracket plate	-	-	-	-	-	-
	E-type	Without bottom bracket plate	-	-	-		<b>Y</b> .	-
	Direct	Mount	-	-	-			-
	Dua	l-Pull	1	1	1	1	1	1
	Top-Pull	exclusive	-	-	-	-	-	-
Cable route type	Down-Pul	l exclusive	-	-	-		-	-
	Fron	t-Pull	-	-	-		-	-
Chain li	ne (mm)		50	50	50	50	50	50
Chain sta	ay angle		63-66	63-66	66-69	63-66	63-66	66-69
Top gea	r teeth		48T	48T	48T	44T/48T	44T/48T	44T/48T
Total ca	apacity		22T	22T	22T	22T	22T	22T
Applicable Top-Mi	d tooth dif	ference	12T	12 <b>T</b>	12T	12T	12T	12T
Multi access ca	ble fixing l	oolt	-	-	-	-	1	1
Angled strok	e adjust bo	lt	-	-	-	-	-	-
Angled clamp	band desi	gn	1	1	1	-	-	-
Link bu	ıshings		8	2	2	8	2	2
Front clamp band	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Front Clamp band	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Ciamp boil	Fin	ish	-		-	-	-	-
Bottom bracket	Mat	erial	-	-	-	-	-	-
plate	Fin	ish	V	-	-	-	-	-
Outer link	Mat	erial	Aluminum	Steel	Steel	Aluminum	Steel	Steel
Outer mix	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
e. mik	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
		ish	Chrome plated	Chrome plated	Chrome plated	Plated	Plated	Plated
Cable fixing bolt		erial ish	Stainless steel -	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Stroke adjusting screw		er <mark>ial</mark> iish	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Average weight (g) direct typ			169	155	155	-	-	-
No			* S-size adapter is available only OTC package	* S-size adapter is available only OTC package	* S-size adapter is available only OTC package			

#### TREKKING

#### Front Derailleur

Series			SHIMANO ACERA	SHIMANO ACERA	SHIMANO ACERA
Mode	el no.		FD-T3000-2-TS3	FD-T3000-TS3	FD-T3000-TS6
		1	Black	Series color	Black
Color	2		-	-	-
	Fro	ont	2	3	3
Speeds	Re	ar	9	9	9
Compati	ble chain		HG 9-speed	HG 9-speed	HG 9-speed
	TOP S	WING	1	1	✓
Action	Down	Swing	-	-	-
	SIDE S	WING	-	-	-
		28.6	√ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)
	Clamp Band (mm)	31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)
	` ′	34.9	1	1	✓
Mount	F.4	With bottom bracket plate	-	-	-
	E-type	Without bottom bracket plate	-	-	-
	Direct	Mount	-	-	-
	Dual	-Pull	✓	1	✓
Cable route type	Top-Pull exclusive		-	-	-
cable loute type	Down-Pull exclusive		-	-	-
	Fron	t-Pull	-	-	
Chain li	ne (mm)		48.8	50	50
Chain st	ay angle		63-68	63-66	66-69
Top gea	ar teeth		46T	44T/48T	44T/48T
Total c	apacity		16T	22T	22T
Applicable Top-Mi	d tooth diff	erence	-	12T	12T
Multi access ca	able fixing b	oolt	-	-	
Angled strok	e adjust bo	lt	-	-	-
Angled clamp	band design	gn	1	1	1
Link bu	ushings		-	-	-
Front clamp band	Material		Steel	Steel	Steel
•	Fin		Painted	Painted	Painted
Rear clamp band, base bracket		erial	Steel	Steel	Steel
base blacket	Fin		Painted	Painted	Painted
Clamp bolt		erial	Stainless steel	Stainless steel	Stainless steel
	Fin		•		-
Bottom bracket plate		erial	•	-	-
F-240		ish	Charles .	Christ	- Charl
Outer link	_	erial ish	Steel Painted	Steel Painted	Steel Painted
		erial	Steel	Steel	Steel
Inner link		ish	Painted	Painted	Painted
		erial	Steel	Steel	Steel
Chain guide		ish	Chrome plated	Chrome plated	Chrome plated
		erial	Stainless steel	Stainless steel	Stainless steel
Cable fixing bolt		ish	-	-	-
Ctuals adjusting		erial	Stainless steel	Steel	Steel
Stroke adjusting screw		ish	-	Zinc plated	Zinc plated
Average weight (g) direct typ			_	_	_
	e w/ bolt)			_	



BL

FD

BR

EC

НВ

FH

## Brake (V-BRAKE)

Se	ries	SHIMANO DEORE	SHIMANO
Mod	el no.	BR-T610	BR-T4000
	1	Black	Black
Color	2	-	Silver
	3	-	-
Brake	e type	V-BRAKE	V-BRAKE
	Standard 1	\$70C	S65T
	Standard 2	M70CT4	-
Brake shoe	Option 1	S70T	M65T4
	Option 2	-	M65T3
Cartridge s	shoe holder	1	-
Arch si	ze (mm)	107	107
_	X type	1	1
Spacer type	Y type	1	✓
Compatible lead	pipe angle (deg.)	45/90/135	45/90/135
Sleeve & B	ushing axle	1	1
	Material	Aluminum	Aluminum
V-arm/Caliper	Finish	Anodized	Painted
	Light weight link	-	-
_	Material	Aluminum	-
Cover	Finish	Painted	-
Fixing bolt length	16	1	1
(mm)	25	1	<b>4</b>
	Material	Steel	Steel
Fixing bolt	Finish	Plated	Zn plated
	Chamfered bolt	1	-
POWER M	ODULATOR	SM-PM70	SM-PM40
Linear	spring	1	1
Stainless cab	ole fixing bolt		-
Average	weight (g)	-	
Ne	ote		



#### TREKKING

#### Crankset

Model   Proc.   Proc	Series		SHIMANO DEORE XT	SHIMANO DEORE	SHIMANO	SHIMANO	SHIMANO ALIVIO	SHIMANO
Color	Mode	el no.	FC-T8000	FC-T6010	FC-T551	FC-T521	FC-T4060	FC-T4010
Color	1 1		Series color	Series black	Black			
Rear speeds	Color		-	-				
Compatible chain   HoX 10-speed   HGX 10-speed	Rear si		10	10				
P.C.D. (mm)							HG for 9-speed	HG for 9-speed
Spider/Gear arms	Chain lir	ne (mm)	50	50	50	50	50	50
Chainting combination	P.C.D.	(mm)	104/64	104/64	104/64	104/64	104/64	104/64
Crank arm langth   165.0   161.5   181.1   185.8   181.7   187.8   187.7   187.8   187.0   187.5   187.0   187.5   187.0   187.5   187.0   1	Spider/G	ear arms	4	4	4	4	4	4
C-factor (mm)	Chainring co	ombination	48-36-26T	48-36-26T				
Crank arm length								
Crank arm length (mm)	Q-racto							
Cank arm length  717.5   717.5	-						-	-
Cank am Hengh (mm)  77.5	ŀ							
175.0							•	-
177.5	(mm)							
180.0	ŀ			-	-	-		-
Optional chain guard   With bash guard   With bash guard   With bash guard   With chain guard   With guard   With chain guard   With guard   With chain guard   With guard	ŀ							
Mitch thain guard   Without chain guard								
Without chain-bash guard								
HOLLOWIECH II	Optional chain guard	•	•	•	-			
### APPLECE CRANKSET		guard	-	-	,	7	4	1
HOLLOWTECH crash arm	HOLLOW	VTECH II	1	1	-	-		-
OCTALINK			-	-	1		1	-
MOLLOWGLDE			-	-	- 4		-	
Outboard			-	-		1	-	1
Compatible bottom bracket type	HOLLOV	VGLIDE	-	-	-	•	-	-
Square	Compatible bettem		1	1	V		J	-
Recommended bottom bracket   Threaded (E-type)	bracket type	OCTALINK	-	-	-	1	-	<b>√</b>
Presed (15-type)   -		Square	-	-	-	-	-	-
Threaded (chain case)   Case			BB-MT800	SM-BB52	SM-BB52	BB-ES300	SM-BB52	BB-ES300
Description   Threaded (chain   Press-fit   BB-MT800-PA   BB-MT800-PA   Press-fit   BB-MT800-PA   Press-fit   BB-MT800-PA   Press-fit   BB-MT800-PA   Press-fit   Press-fit   BB-MT800-PA   Press-fit   Press-fi	Recommended		-	-	-	-	-	-
Press-fit   BB-MT800-PA   BB-MT800-PA   -   -   -   -   -	bottom bracket		-	SM-BB52	SM-BB52	-	SM-BB52	-
Threaded (normal)		,	BB-MT800-PA	BB-MT500-PA	-	-	-	-
Axic length of 8B			-		-	121-AK	-	126
Threaded bottom bracket shell width 73	Axle length of BB-	Threaded (E-type)	-		-	-	-	-
Threaded bottom bracket shell witch grant witch grant	UN/EŠ (mm)	Threaded (chain				121 AV		126 K
Threaded bottom bracket shell with (mm) with (mm) as 3		-	-					
Crank arm   83	Threaded bottom			_				
Crank arm Crank arm Crank arm Material Crank axe  Material Steel Steel Steel Steel Steel Plated Plat	bracket shell width (mm)					·	-	-
Crank arm								
Finish   Anodized   Anodized   Painted   Pai	Chain case						-	-
Crank axle   Finish   Plated	Crank arm							
Finish   Plated   P						Painted		
Spider arm   Material   Aluminum   Aluminum   - Aluminu	Crank axle					-		
Finish   Painted   Paint						Aluminu		
Spider arm cover   Material   -	Spider arm							
Outer ring  Material Aluminum								
Outer ringMaterialAluminumAluminumAluminumAluminumSteelSteelSteelMiddle ringMaterialAluminumSteelAnodizedAnodizedAnodizedFinishPlatedPaintedAluminum (48-36-26T) Steel + GF composite (44-32-24T)Steel (46-36-26T) Steel + GF composite (44-32-24T)SteelSteelInner ringMaterialAluminumSteelSteelSteelSteelFinishPlatedPaintedPlatedPaintedPaintedPlatedPaintedPlatedPaintedPaintedPaintedOuter/middle ring fixing boltMaterialAluminumStainless steelStainless steelStainless steelStainless steelInner ring fixing boltMaterialStainless steelStainless steelStainless steelStainless steelStainless steelStainless chain guard fixing boltCrank fixing bolt includedAverage weight (g) (175mm, w/o bottom bracket)868 (48-36-26T)	Spider arm cover							
Middle ring   Material   Aluminum   Steel   Steel   Anodized   Anodized   Anodized   Anodized   Painted   Painted			Aluminum					
Middle ring  Material  Aluminum  Steel  Aluminum  Aluminum  Steel Steel  Finish  Plated  Painted  Plated  Painted  Plated  Painted  Plated  Painted   Outer ring								
Middle ring  Material  Aluminum  Steel  Stee		7111311	Anouizeu	Allouized			, anneu	ranneu
Inner ring   Material   Aluminum   Steel   S	Middle ring	Material	Aluminum	Steel	(48-36-26T) Steel + GF composite	Steel + GF composite	Steel	Steel
Plated   Painted   Paint		Fin <mark>ish</mark>	Plated	Painted	Plated	Painted	Painted	Painted
Outer/middle ring fixing bolt Finish Anodized Stainless steel	Innor ring	Mate <mark>rial</mark>	Aluminum	Steel	Steel	Steel	Steel	Steel
Finish   Anodized   -   -   -   -   -   -   -     -     -	miler ring	Finish	Plated	Painted	Plated	Painted	Painted	Painted
Inner ring fixing bolt    Material   Stainless steel   Stainless s	Outer/middle ring			Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Inner ring fixing bolt Finish Stainless chain guard fixing bolt	fixing bolt	Finish	Anodized	-	-	-	-	-
Stainless chain guard fixing bolt  Crank fixing bolt included  Average weight (g) (175mm, w/o bottom bracket)  Stainless chain guard fixing bolt	Inner ring fixing bolt				Stainless steel	Stainless steel		Stainless steel
Crank fixing bolt included  V  V  V  Average weight (g) (175mm, w/o bottom bracket)  868 (48-36-26T)	Stainless shair a							
Average weight (g) (175mm, w/o bottom bracket) 868 (48-36-26T)		_						

SL

BL

BL

KD.

FD

вк

EC

HB

FH

#### Crankset

Sei	SHIMANO	
Mode	FC-T3010	
Mod		
Color	1 2	Black Silver
Danie -		
	peeds ble chain	9 HG for 9-speed
	ne (mm)	50
		104/64
	(mm)	4
	ear arms	48-36-26T
Chainring c	ombination	44-32-22T
Q-facto	or (mm)	187.3
	165.0	✓
	167.5	-
	170.0	1
Crank arm length (mm)	172.5	-
()	175.0	✓
	177.5	-
	180.0	-
	With bash guard	-
Optional chain guard	With chain guard	1
Cpaonai ciani gualu	Without chain/bash	1
	guard	•
	VTECH II	-
	RANKSET	-
	H crank arm	-
	LINK	-
HOLLO	WGLIDE	-
Compatible bottom	Outboard	-
bracket type	OCTALINK	-
	Square	✓
	Threaded (normal)	BB-UN300
Recommended	Threaded (E-type)	-
bottom bracket	Threaded (chain case)	BB-UN300-K
	Press-fit	-
	Threaded (normal)	LL123
Axle length of BB- UN/ES (mm)	Threaded (E-type)	-
UN/EŠ (mm)	Threaded (chain	LL123-K
	case)	
Threaded bottom	68	1
bracket shell width (mm)	73	1
	83	-
Chain case	compatible	1
Crank arm	Material	Aluminum
	Finish	Painted
Crank axle	Material	-
	Finish	-
Spider arm	Material	
-	Finish	
Spider arm cover	Material	
*	Finish	- CO. I
Outer ring	Material	Steel
-	Finish	Painted
Middle ring	Material	Steel
	Finish	Painted
Inner ring	Material	Steel
	Finish	Painted
Outer/middle ring fixing bolt	Material	Stainless steel
iig Doit	Finish Material	Ctainless stock
Inner ring fixing bolt	Material Finish	Stainless steel
	- (40 30 30T)	
Stainless chain g	- (48-36-26T) <b>√</b> (44-32-22T)	
Crank fixing	<b>√</b> (44 52 221)	
	•	
brac	175mm, w/o bottom ket)	-
No	ote	



#### TREKKING

#### Front Hub (Rim/Disc Brake)

Ser	ries	SHIMANO DEORE	SHIMANO
Mode	el no.	HB-T610	НВ-Т3000
	1 Hub Shell	Black	Black
	1 Quick release	Black	Black
Color	2 Hub Shell	-	Silver
	2 Quick release	-	Black
Brake	type	Rim brake	Rim brake
O.L.D.		100	100
	28H	-	-
Spoke hole	32H	1	1
-	36H	1	1
External serration	with	-	-
disc brake rotor lock ring	without	-	-
CENTER LOCK mo	ount cover option	-	-
Axle fixin	g method	Quick release	Quick release
Out discusting	129 mm	-	-
Quick release skewer length	133 mm	1	1
	100 x 15	-	-
Thru Axle (Length x Inner diameter ;	110 x 15	-	-
mm)	110 x 20	-	-
Flange dist	ance (mm)	71.6	71.6
Offset	: (mm)	0	0
P.C.D. Left/	Right (mm)	38/38	38/38
Flange diar	neter (mm)	48.4	48.4
Se	al	Labyrinth & Contact	Contact
Internal gre	ease sleeve	-	-
	Stainless ball	-	-
Bearing	Cup	-	-
	Cone	CBN	-
Hub shell	Material	Aluminum	Aluminum
nub sileli	Finish	Anodiz <mark>ed</mark>	Anodized
Axle	Material	Steel	Steel
Axie	Finish		-
Quick release lever	Material	Aluminum	Steel
Quick release level	Finish	Painted	Plated
Quick release	Material	Aluminum	Steel
housing	Finish	Painted	Plated
Quick release nut	Ma <mark>terial</mark>	Resin & steel	Resin & steel
Quick release nut	Finish	-	-
Disc brake rotor	Material	-	-
lock ring	Finish	-	-
Average v	weight (g)	-	-
No	ote		



BL

BL

-D

BR

FC

ЦΒ

FH

#### FREEHUB (Rim/Disc Brake)

Ser	ies	SHIMANO DEORE	SHIMANO	
Mode	el no.	FH-T610	FH-T3000	
	1 Hub Shell	Black	Black	
C. L.	1 Quick release	Black	Black	
Color	2 Hub Shell	-	Silver	
	2 Quick release	-	Black	
Brake	type	Rim brake	Rim brake	
Spe	eds	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	
O.L.D.	(mm)	135	135	
	28H	-	-	
Spoke hole	32H	1	1	
	36H	1	✓	
External serration	with	-	-	
rotor lock ring	without	-	-	
Internal serration	with	-	-	
rotor lock ring	without	-	-	
CENTER LOCK mo	unt cover option	-	-	
Axle fixin	g method	Quick release	Quick release	
	166 mm	-	1	
Quick release	168 mm	1	-	
skewer length	170 mm	-	✓	
	173 mm	1	-	
	135 x 10	-	-	
Th And a //	135 x 12	-	-	
Thru Axle (Length x Inner diameter ; mm)	142 x 12	-	-	
11111)	148 x 12	-	•	
	150 x 12	-	-	
Flange dist	ance (mm)	59.2	59.2	
Offset	(mm)	7.8	7.5	
P.C.D. Left/I	Right (mm)	44/45	45/45	
Flange diameter	Left/Right (mm)	53.8	53.8	
Quick eng	agement		-	
Seal	Hub	Labyrinth & Contact	Contact	
	FREEHUB body	Contact		
Internal gre	ease sleeve	1	-	
	Stainless ball	Y .	-	
Bearing	Cup	-	-	
	Cone	CBN	-	
FREEHUB body	Material	Steel	Steel	
,	Finish	-	-	
Hub shell	Material	Aluminum	Aluminum	
	Finish	Anodized	Anodized	
Axle	Material	Steel	Steel	
-	Finish	-	-	
Quick release lever	Material	Aluminum	Steel	
	Finish	Painted	Plated	
Quick release	Material	Aluminum	Steel	
housing	Finish	Painted	Plated	
Quick release nut	Material	Resin & Steel	Steel + Resin	
	Finish	-	-	
Rotor lock ring	Material	-	-	
_	Finish	-	-	
Average weight (g release noi	) (w/o axle, quick lock ring)	-	-	



# GRAVEL/ADVENTURE

	Page	
Single Lever (Hydraulic Disc Brake)	114	SL
Brake Lever (Sub Lever for Hydraulic Disc Brake)	115	BL
Shifting/Brake Lever (Hydraulic Disc Brake)	116	ST
Rear Derailleur	117	RD
Front Derailleur	118	FD
Brake (Hydraulic Disc Brake)	119	BR
Crankset	120	FC
Wheel (Disc Brake)	121	WH

### Single Lever (Hydraulic Disc Brake)

Series		SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	
Model no.			BL-RX810-L	BL-RX600-L	ST-RX810-LA
Color 1		Series color	Series color	Series color	
	. 1		- Ctandard	- Ctandard	- Ctandard
Bracket cover color		2	Standard -	Standard -	Standard -
Shifte	er type		Single Lever	Single Lever	Single lever for adjustable seat post
	Front	speeds	1	1	1
		peeds	-	-	-
		converter tiple shifts	-	-	-
	(Main le	ver/rear)	-	-	-
	deraille	ible rear eur type	-	-	-
		mpatible	-	-	-
	positio	g lever n adjust	-	-	-
		MULTI RELEASE	-	-	-
	Release function	INSTANT RELEASE	-	-	-
		2-WAY RELEASE	-	-	-
		With	-	-	-
	OPTICAL GEAR	With (removab	-	-	-
Shifting lever	DISPLAY	le)			
		Without Bearing	-	-	-
		uction	-	-	
	Shifting lever	Lever side	-	-	OT-SP41
	outer	Rear derailleur side	-	-	-
		Polymer- coated cable	-	-	
		OPTISLIC	-		1
	Shifting lever	SIL-TEC	-	-	-
	cable	Stainless Steel	-		-
		Included	-	-	-
		Pre assemble	-	-	
	Lever size	d e (Finger)	-	-	-
	Lever size (Finger)  Brake hose (Kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR
		joint	Straight	SM-BH90-J-SSR Straight	Straight
	Brake	1	Black	Black	Black
	hose color (kit)	2	-	-	-
	Recommer cali	nded brake per	BR-RX810	BR-RX810	BR-RX810
Brake lever	Brake fluid	SHIMAN O Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Purch	Oil Tool less		-	-
	Reach adjust	Tool	1	1	1
	$\overline{}$	leeding	1	1	1
		ke adjust	1	-	1
	_	clamp	-	-	-
Clamp band		PEC	-	-	-
	Diamet	er (mm)	23.8-24.2	23.8-24.2	23.8-24.2
Bracket	Mat	erial	Engineering Composite	Engineering Composite	Engineering Composite
	Finish		-	-	-
Brake lever	Material		Aluminum Painted	Aluminum Painted	Aluminum Painted
	Finish Main		Painted -	Painted -	Painted -
Shifter lever body		ease	Resin & Steel	Resin & Steel	Resin & Steel
Master cylinder		erial	-	-	-
Clamp band			- Steel	- Steel	- Steel
Average weight (g)			222	227	263
	ote				

## Brake Lever (Sub Lever for Hydraulic Disc Brake)

Ser	ries	SHIMANO GRX	SHIMANO GRX	
Mode	el no.	BL-RX812-R	BL-RX812-L	
Brake	type	Hydraulic disc brake	Hydraulic disc brake	
Lever size	e (finger)	1 1		
	1	Neutral	Neutral	
Color	2	-	-	
	3	-	-	
Brake h	ose (Kit)	-	-	
Hose	joint	Straight	Straight	
Brake hose color	1	Black	Black	
(Kit)	2	-	-	
Recommended	d brake caliper	BR-RX810	BR-RX810	
O	il	SHIMANO Mineral	SHIMANO Mineral	
Funnel b	oleeding	1	1	
Barah adisas	Toolless	-	-	
Reach adjust	Tool	1	1	
Free stro	ke adjust	-	-	
SERVO	WAVE	-	-	
	New band	1	1	
Clause band	Open clamp	-	-	
Clamp band	I-SPEC B	-	-	
	I-SPEC II	-	-	
Clause half	Material	Stainless steel	Stainless steel	
Clamp bolt	Finish	-	-	
Brake lever	Material	Aluminum	Aluminum	
вгаке течег	Finish	Anodized	Anodized	
Mostor adjude:	Material	Aluminum	Aluminum	
Master cylinder	Finish	Painted	Painted	
Average v	veight (g)	81.9	81.9	
No	ote	-		



### Shifting/Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	
Mode	Model no.		ST-RX810-R	ST-RX810-L	ST-RX600-R	ST-RX600-L	ST-RX400-R	ST-RX400-L
Color		1	Series color	Series color	Series color	Series color	Series color	Series color
	2	2	- Ctandard	- Ctandard	- Ctandard	- Ctandard	- Ctandard	- Ctandard
Bracket cover color	2		Standard -	Standard -	Standard -	Standard -	Standard -	Standard -
Shifter	type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
	Front	speeds	-	2	-	2	-	2
	Rears		11	-	11	-	10	-
	2/3 mode Max. mult	converter tiple shifts	-	-	-	-	-	-
	(Main le		2	-	2	-	2	-
	deraille	ur type	Road 11-speed	-	Road 11-speed	-	Road 10-speed	-
	I-SPEC co Shiftin	g lever	-	-	<del>-</del>	-	-	-
	position	n adjust MULTI	-	-	-	-	-	-
		RELEASE	-	-	-	-	-	-
	Release function	INSTANT RELEASE	-	-	-	-		-
		2-WAY RELEASE	-	-	-		-	-
[		With	-	-	-	-	-	-
	OPTICAL GEAR DISPLAY	With (removab le)	-	-	-	-		-
Shifting lever	DISFLAT	Without	-	-	-	-	-	-
	Multi-E constr	Bearing ruction	-	-			-	-
	Shifting	Lever	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
	lever outer	side Rear derailleur	OT-RS900		OT-RS900	OT-RS900	OT-RS900	OT-RS900
	casing	side Polymer-		OT-RS900	01-83900			
	Shifting lever cable	coated cable OPTISLIC	<b>,</b>	1	•		-	-
		К	-		•	-	1	1
		SIL-TEC Stainless	<del>-</del>	-	-	-	-	<del>-</del>
		Steel	-	-	-	-	-	-
		Included	1	1	1	1	1	✓
		Pre assemble d	1	1	•	✓	1	1
	Lever size	e (Finger)	-	-		- SM-BH90-JK-SSR	- SM-BH90-JK-SSR	- SM-BH90-JK-SSR
	Brake hose (Kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR	SM-BH90-J-SSR	SM-BH90-J-SSR	SM-BH90-J-SSR
	Hose Brake	joint 1	Straight Black	Straight Black	Straight Black	Straight Black	Straight Black	Straight Black
	hose color (kit)	2	-	-	-	-	-	-
I	Recommer	nded brake per	BR-RX810	BR-RX810	BR-RX810	BR-RX810	BR-RX400	BR-RX400
Brake lever	Brake fluid	SHIMAN O Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
		Oil						
	Reach adjust	Tool less Tool		-	-	-	-	- -
	Funnel k			1	1	1	1	1
[		ke adjust	1	1	-	-	-	-
	SERVO Open	WAVE	-	-	-	-	-	-
Clamp band		PEC	-	-	-	-	-	-
	Diamet	er (mm)	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2
Bracket	Mat	erial	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite
	Fin		-	-	-	-	-	-
Brake lever	Mat Fin	erial ish	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted
Ma			-	-	-	-	-	-
Shifter lever body		ease	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
Master cylinder	Mate Fin	erial ish	-	-	-	-	-	-
Clamp			Steel	Steel	Steel	Steel	Steel	Steel
Average w	veight (g)		286	284	307	306	307	306
Not	te							

#### GRAVEL/ ADVENTURE

#### Rear Derailleur

Series		SHIMANO GRX	SHIMANO GRX	SHIMANO GRX
Mod	el no.	RD-RX810	RD-RX812	RD-RX400
Pulley cage		-	-	-
Color 1 2		Series color	Series color	Series color
		-	-	-
Rears	peeds	11	11	10
Compati	ble chain	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-X 10-speed
	SHIMANO SHADOW RD	-	-	-
Top-Normal spring type	SHIMANO SHADOW RD+	1	1	<b>√</b>
	Double servo	-	-	-
	Direct attachment (Conventional)	1	1	1
Mount	Riveted adapter (Road type)	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-
Cable a	ndjuster	1	1	✓
Max. front	difference	17T	-	16T
Total c	apacity	40T	31T	41T
Low sprocket	Max.	34T	42T	36T
LOW sprocket	Min.	30T	40T	32T
Top sprocket	Max.	11T	11T	11T
Top sprocket	Min.	11T	11T	11T
Fluoric coated	l link bushings	4	4	4
	G pulley bearing	✓	✓	
	T pulley bearing	1	<b>4</b>	-
Pulley	Teeth	13T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	1	/	1
Bracket	Material	Aluminum	Aluminum	Steel
Вгаскет	Finish	Anodized	Anodized	Painted
	Hollow axle	1	1	✓
B-axle	Material	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-
	Hollow axle	-	-	-
B-axle 2	Material	Aluminum	Aluminum	Stainless steel
	Finish	Anodized	Anodized	-
Pracket hade	Material	Aluminum	Aluminum	Aluminum
Bracket body	Finish	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel
I -date	Finish	-	-	-
Plate body	Material	GFRP	GFRP	GFRP
i late body	Finish	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum
Jaces milk	Finish	Painted	Painted	Painted
Inner link	Material	GFRP	Aluminum	GFRP
ci iiik	Finish	-	Painted	-
Outer plate	Material	Aluminum	Aluminum	Steel
Catci piate	Finish	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Steel
initer place	Finish	Painted	Painted	Painted
Average	weight (g)	255	267	303
No	ote	-	-	-

SL

BL

RD

D

BR

FC

WH

#### Front Derailleur

Se	ries		SHIMANO GRX	SHIMANO GRX	
Mod	el no.		FD-RX810-F	FD-RX400-F	
		1	Series color	Series color	
Color		2	-	-	
	Fre	ont	2	2	
Speeds	Re	ear	11	10	
Compati	ble chain		HG-EV 11-speed HG-X11	HG-X 10-speed	
	TOP S	WING	<u> </u>	<u>-</u>	
Action		Swing		1	
		28.6	<u> </u>	<u> </u>	
	Clamp Band	31.8	-	-	
Mount	(mm)	34.9	-		
	Braze	ed-On		1	
Cable	adjust		•	<u> </u>	
Top-Pull exc		n	<u> </u>	-	
	ne (mm)		46	46	
Chain stay		<b>)</b>	61-66	61-66	
	ar teeth	,	46-48T	46T	
	apacity		17T	16T	
Applicable Top-Mi		ference	-	-	
Angled clamp			-	-	
Multi-Bearing		-	_	_	
	ushings		7	7	
		erial		-	
Front clamp band		ish	_		
		erial	-		
Rear clamp band, base bracket	-	ish	_	-	
		erial	GFRP	GFRP	
Outer link		ish	Painted	Painted	
		erial	Aluminum	Steel	
Inner link	<b></b>	ish	Plated	Plated	
		erial	Steel	Steel	
Chain guide	<b>-</b>	ish	Chrome plated	Chrome plated	
	Mat	erial	Stainless steel	Stainless steel	
Cable fixing bolt	Fin	ish		-	
Stroke adjusting	Mat	erial	Steel	Steel	
Stroke adjusting screw	Fin	ish	Black	Black	
Average weight (g Direct typ	) (Band type e: w/ bolt)	e: L size,	96	96	
No	ote				



#### GRAVEL/ ADVENTURE

### Brake (Hydraulic Disc Brake)

Ser	ries	SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	SHIMANO GRX
Mode	el no.	BR-RX810-F	BR-RX810-R	BR-RX400-F	BR-RX400-R
Brake	type	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
	1	Series color	Series color	Series color	Series color
Color	2	-	-	-	-
	3	-	-	-	-
Brake h	ose (Kit)	SM-BH90-JK-SSR SM-BH90-J-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR
Hose	joint	Straight	Straight	Straight	Straight
Brake hose color	1	Black	Black	Black	Black
(Kit)	2	-			-
ICE-TECHNOLOGIES pad compatible caliper		1	1	1	1
	Standard 1	K03S Resin	K03S Resin	K03S Resin	K03S Resin
Pad	Standard 2	L03A-Resin	L03A-Resin	L03A-Resin	L03A-Resin
	Option 1	K04S Metal	K04S Metal	K04S Metal	K04S Metal
	Option 2	L04C-Metal	L04C-Metal	L04C-Metal	L04C-Metal
	10 mm mount	-	1	-	1
	15 mm mount	-	✓	·	1
	20 mm mount	-	1	-	1
Fixing bolt Spec for rear mount	25 mm mount	-	✓	-	1
rear mount	30 mm mount	-	1		1
	35 mm mount	-	1	-	1
	15.2 mm	-			-
	18.7 mm	-	-	-	-
Recommende	d brake lever	ST-RX810 BL-RX810 ST-RX815	ST-RX810 BL-RX810 ST-RX815	ST-RX400	ST-RX400
Recommende	d brake rotor	SM-RT800 RT-MT800	SM-RT800 RT-MT800	SM-RT64	SM-RT64
0	il	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY	BLEEDING	1	1	1	1
Moun	t type	Flat mount	Flat mount	Flat mount	Flat mount
Pist	ton	2	2	2	2
Piston r	material	Ceramic	Ceramic	Resin	Resin
	MONO-BODY	-	-	-	-
Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel
Caliper fixing bolt	Tool size	4 mm	4 mm	4 mm	4 mm
	Anti <mark>loosen</mark> method	Bolt fix pin, snap ring	Bolt fix pin, snap ring	Bolt fix pin, snap ring	Bolt fix pin, snap ring
Pad n	nount	Pad axle	Pad axle	Pad axle	Pad axle
Average v	veight (g)	148	138	-	-
No	ote	Front spec with adaptor	Front spec with adaptor	Front spec with adaptor	Front spec with adaptor

SL

BL

' 1

D

BR

WH

#### Crankset

Ser	ies	SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	SHIMANO GRX
Mode	el no.	FC-RX810-2	FC-RX810-1	FC-RX600-11	FC-RX600-10	FC-RX600-1
	1	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-
Rear s	peeds	11	11	11	10	11
Compati	ble chain	HG-EV 11-speed, HG-X11	HG-EV 11-speed, HG-X11	HG-EV 11-speed, HG-X11	HG-10-speed	HG-EV 11-speed, HG-X11
Chain li	ne (mm)	46.9	49.7	46.9	46.9	49.7
P.C.D. Left/	Right (mm)	110/80	110	110/80	110/80	110
Spider/G	ear arms	4	4	4	4	4
Chain ring combination		48-31T	42T/40T	46-30T	46-30T	40T
Q-factor		151	151	151	151	151
	165	-	-	1	1	1
	167.5	-	-	-	-	-
Crank arm length	170	1	1	1	1	1
(mm)	172.5	<b>√</b>	1	<b>/</b>	1	1
	175	1	1	1	1	•
	177.5	-	-	-		-
	180	-	-	-	-	-
Optional chain	With chain guard	-	-	-	-	-
guard	Without chain guard	1	1	1	1	1
HOLLOV		1	1	-		-
2-PIECE C		-	-	/	1	1
HOLLOWTECH crank arm		1	1	-		-
OCTALINK		-	-	-	-	-
HOLLO		-	-	•	-	-
Compatible bottom	Outboard	<b>/</b>	1		1	1
bracket type	OCTALINK	-	-	-	-	-
	Square Threaded (normal)	SM-BBR60	SM-BBR60	- BB-RS500	BB-RS500	BB-RS500
Recommended bottom bracket	Pressfit	SM-BB72	SM-BB72	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB
Axle length of BB- UN/ES (mm)	Threaded (normal)	-	<u> </u>	-	-	-
Threaded bottom	68	1	1	1	1	1
bracket shell width (mm)	70	1	1	1	1	1
Correlation of the Correlation o	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank arm	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Cuank aula	Material	Steel	Steel	Steel	Steel	Steel
Crank axle	Finish	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-
Spider arm	Finish	-	-	-	-	-
Spider arm cover	Material		-	-	-	-
	Finish	-	-	-	-	-
Outor -i	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer ring	Finish	Anodized	Anodized (teeth), Painted (body)	Anodized	Anodized	Anodized (teeth), Painted (body)
Middle ring	Material		-	-	-	-
windule filly	Finish	-	-	-	-	-
Inner ring	Material	Aluminum	-	Aluminum	Aluminum	-
	Finish	Anodized	-	Anodized	Anodized	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Stainless Steel	Stainless Steel	Stainless Steel
TIXING DOIT	Finish	Anodized	Anodized	-	-	-
Inner ring fixing bolt	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Crank fixing		1	✓ 	1	1	1
Average weight (g) ( brac		710	656 (42T) 644 (40T)	806	810	743
No	te	-	-	-	-	-

#### GRAVEL/ ADVENTURE

### Wheel (Disc Brake)

Model no.	OB O-TL OB CK disc speed OB = 27.5
SPEC	CK disc speed DB = 27.5
Color	Speed  OB = 27.5  rnal)
Front/Rear	speed OB = 27.5 rnal) d
Brake type	speed OB = 27.5 rnal) d
Speeds	speed 0B = 27.5 rnal) d
O.L.D. (mm)	DB = 27.5
Rim	rnal) d
Rim	d
Rim joint   Welded   Welded   Welded   Welded   Brazed reinforcement	d
Number (Front/Rear)   24   24   24   24   24   24   24   2	J
Spokes   Straight spoke   J	J
Bladed	J
Axle Fixing method	J
133	
Quick release skewer	4
length (mm)	
168	
173	
Axle length (mm) 100 100 142 142  Axle diameter (mm) 12 12 12 12 12 12 12 100 x 8	A
100 x 8	
Thru Axle (Length x Inner diameter; mm)  Inner diameter; mm)    100 x 12	
Thru Axle (Length x   110 x 20	
135 x 10	
142 x 12	
Bearing Stainless ball	
Bearing Cup Polish Polish Polish Polish Polish Cone CBN finish CBN	
Disc mount  CENTER LOCK  CENTER LOCK   CENTER LOCK   CENTER LOCK   COVER option  140 mm Disc brake  rotor compatible	
Disc mount  CENTER LOCK mount cover option  140 mm Disc brake rotor compatible	sh
140 mm Disc brake rotor compatible	
I rotor compatible I	
OTTBAL (2.1)	
D2 rim	
OFFSET RIM  Digital adjustment system	
Scal Hub Contact Contact Contact Contact	
FREEHUB body   -   Contact   Contact     Internal grease sleeve   \(  \)   \(  \)	.t
Requires rim tape	
Tire         Type         Tubeless         Tubeless         Tubeless         Tubeless         Tubeless         Tubeless           Recommended size         32-622 - 42-622         38-584 - 53-584         32-622 - 42-622         38-584 - 53	
Rim Material Aluminum	ım
Spoke Material Stainless steel Stainless steel Stainless steel Stainless s	teel
Material Aluminum Aluminum Aluminum Aluminum	
Finish Black Black Black Black	
FREEHUB body Material Steel Steel Finish	
Hub shall Material Aluminum Aluminum Aluminum Aluminum Aluminum	
Ariodized Anodized An	
Printsn	
Quick release lever Finish	
Quick release housing Finish	
Quick release nut Material	
CP-FH08 (23-28T CP-FH08 (23-28	
11-speed) 11-speed CP-WH41 (23-30T CP-WH41 (2	
10-speed) 10-speed	
CP-WH12 (32T 10/ CP-WH12 (3: 11-speed) 11-speed	d)
CATEYE RR-550-WUW CATEYE RR-550-WUW CATEYE RR-550-WUW CATEYE RR-55	d) 2T 10/
Reflector AS CATEYE RR-550-WUA	d) 2T 10/ d)
3VV 3VV 3VV 3VV 3VV 10VV 10VV 10VV 10VV	d) 2T 10/ d) 0-WUW
SW SW SW SW	d) 2T 10/ d) 50-WUW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)  769  737  951  920	d) 2T 10/ d) 50-WUW
Note	d) 2T 10/ d) 50-WUW

SL

BL

) I

D

-D

BR

FC

WH



	Page	
Shifting/Brake Lever	124	ST
Shifting/Brake Lever (Hydraulic Disc Brake)	129	ST
Shifting Lever	132	SL
Brake Lever	134	BL
Brake Lever (Hydraulic Disc Brake)	136	BL
Brake (Caliper Brake)	137	BR
Brake (Hydraulic Disc Brake)	141	BR
Brake (Mechanical Disc Brake)	143	BR
Brake (V-BRAKE)	144	BR
Brake (Cantilever Brake)	144	BR
Brake Cable	144	ВС
Rear Derailleur	145	RD
Front Derailleur	149	FD
Crankset	154	FC
Bottom Bracket (ногложтесн II)	159	ВВ
Bottom Bracket	159	ВВ
Cassette Sprocket	160	CS
Front Hub (Rim/Disc Brake)	163	НВ
FREEHUB (Rim/Disc Brake)	165	FH
Wheel (Rim Brake)	167	WH
Wheel (Disc Brake)	172	WH
Head Parts	175	НР

#### Shifting/Brake Lever

Se	ries		DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Mod	el no.		ST-R9100-R	ST-R9100-L	ST-9001	ST-R8000-R	ST-R8000-L	ST-6800
		1	Series color	Series color				
Color	:	2	-	-	-	-	-	-
		1	Series color	Series color	2-Tone	Black	Black	Black
Bracket cover color	:	2	-	-	-	-	-	White
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Front speeds		-	2	2	-	2	2	
	Rear speeds		11	-	11	11	-	11
	OPTICA DISE	L GEAR PLAY	-	-	-	-	-	-
	FLIGHT	T DECK	-	-	-	-	-	-
Shifting lever	Multi-Bearing construction		R:4 L:4	R:4 L:4	R:4 L:4	*	*	- *
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear deraille ur side	OT-RS900	OT-RS900	OT-SP41 Sealed	OT-RS900	OT-RS900	OT-SP41 Sealed
	Shifting lever	Materia I	Stainless steel	Stainless steel				
	cable	Finish	Polymer coated	Polymer coated				
	Shifting lever cable shippin g conditio n	Not Pre- Assemb led	1	1			1	1
		Pre- Assemb led	1	1	1	1	1	1
	Reach	adjust	Screw	Screw	Screw	Screw	Screw	Screw
	Clamp ba	and (mm)	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2
Brake lever	SLR	R-EV	1	1	1	1	1	1
	NEW SU	IPER SLR	-	-	-	-	-	-
	supe	r SLR	-	-		-	-	-
	Cable a bra	djuster cket	-	-	-	-	-	-
Bracket	Mat	erial	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
	Fin	ish	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
Main lever	Mat	erial	Carbon	Carbon	Carbon	CFRP	CFRP	CFRP
ividiii level	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Average	weight (g)		365 ( /pair)	365 ( /pair)	365 ( /pair)	220 ( /pc)	218 ( /pc)	425 ( /pair)
Ne	ote					* Use bush	* Use bush	* Use bush

#### Shifting/Brake Lever

Se	ries		SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO TIAGRA
Mod	el no.		ST-R7000-R	ST-R7000-L	ST-5800	ST-4700-R	ST-4700-L	ST-4703-L
Calan		1	Silky black	Silky black	Black	Series color	Series color	Series color
Color		2	Spark silver	Spark silver	Silver	-	-	-
Bracket cover color		1	Black	Black	Black	Black	Black	Black
Bracket cover color	2		-	-	White	-	-	-
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
	Front	speeds	-	2	2	-	2	3
	Rears	peeds	11	-	11	10	-	-
	OPTICA DISE	AL GEAR PLAY	-	-	-	-	-	-
	FLIGH	T DECK	-	-	-	-	-	-
Shifting lever	Multi-Bearing construction		0	0	0	0	0	0
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear deraille ur side	OT-RS900	OT-RS900	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	Shifting lever	Materia I	Stainless steel	Stainless steel				
	cable	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
	Shifting lever cable shippin g conditio n	Not Pre- Assemb led	✓	✓		1	1	✓
		Pre- Assemb led	1	1		1	1	•
	Reach	adjust	Screw	Screw	Screw	screw	Screw	Screw
	Clamp ba	and (mm)	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2
Brake lever	SLR	R-EV	1	1	1	1	1	✓
	NEW SU	JPER SLR	-	-	-	-	-	-
	supe	r SLR	-	-		-	-	-
	Cable a bra	adjuster cket	-	-	-	-	-	-
Bracket	Mat	erial	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Fin	nish	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
Main lever	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin	nish	Painted	Painted	Painted	Painted	Painted	Painted
Average v	weight (g)		251 ( /pc)	249 ( /pc)	486 ( /pair)	-	-	-
No	ote			-				

·H

WH

HP

### Shifting/Brake Lever

Series		SHIMANO	SHIMANO SORA	SHIMANO SORA	SHIMANO SORA	SHIMANO	SHIMANO CLARIS	
Mod	el no.		ST-R460	ST-R3000-R	ST-R3000-L	ST-R3030-L	ST-R353	ST-R2000-R
Color		1	Black	Series color	Series color	Series color	Black	Series color
Color	2	2	-	-	-	-	-	-
Bracket cover color		I	Black	Standard	Standard	Standard	Black	Black
Bracket cover color	-	2	-	-	-	-	-	-
Leve	r type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Front speeds		2	-	2	3	3	-	
	Rears	peeds	10	9	-	-	-	8
	OPTICA DISF	L GEAR PLAY	✓	-	-	-	1	-
	FLIGHT	T DECK	-	-	-	-	-	-
	Multi-E constr	Bearing uction	-	0	0	0	-	-
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Shifting lever		Rear deraille ur side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	Shifting lever	Materia I	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel
	cable	Finish	-	OPTISLICK	OPTISLICK	OPTISLICK	SIL-TEC	OPTISLICK
	Shifting lever cable	Not Pre- Assemb led	1	-		·	1	-
	shippin g conditio n	Pre- Assemb led	-	1		1	-	•
	Reach	adjust	Spacer Use	Screw	Screw	Screw	Spacer Use	Screw
	Clamp band (mm)		23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2
Brake lever	SLR	-EV	-		-	-	-	-
	NEW SU	PER SLR	<b>,</b>	1	1	1	1	<b>~</b>
	supe	r SLR	-	-		-	-	-
	Cable a bra	djuster cket	-	-	-	-	-	-
Bracket	Mat	erial	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Fin	ish	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
Main lever	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Average	weight (g)		-	-	-	-	-	-
Note		SHIMANO logo Compatible with Caliper/Canti/Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE				SHIMANO logo  Compatible with Caliper/Canti/Road disc brake  Not compatible with V-BRAKE/ Compact V-BRAKE		

#### Shifting/Brake Lever

Series		SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO TOURNEY	
Mod	el no.		ST-R2000-L	ST-R2030-L	ST-RS200-R	ST-RS200-L	ST-RS203-L	ST-A070
Color		1	Series color	Series color	Series color	Series color	Series color	Series color
Color	:	2	-	-	-	-	-	-
Bracket cover color		1	Black	Black	-	-	-	Black
Bracket cover color	2		-	-	-	-	-	-
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	DUAL CONTROL LEVER	
	Front	speeds	2	3	-	2	3	2
	Rears	peeds	-	-	8	-	-	7
Shifting lever	OPTICA DISE	L GEAR PLAY	-	-	✓	1	1	✓
	FLIGHT	T DECK	-	-	-	-	-	-
	Multi-I constr	Bearing ruction	-	-	-	-	-	-
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40
		Rear deraille ur side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SIS40
	Shifting lever	Materia I	Steel	Steel	Steel	Steel	Steel	Stainless steel *
	cable	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	-
	Shifting lever cable shippin g conditio n	Not Pre- Assemb led	-	-	-	-	-	•
		Pre- Assemb led	1	1	X	1	1	-
	Reach	adjust	Screw	Screw	1	1	1	Screw
	Clamp ba	and (mm)	23.8 - 24.2	23.8 - 24.2	22.2	22.2	22.2	23.8 - 24.2
Brake lever	SLR	R-EV	-		-	-	-	-
	NEW SU	JPER SLR	1	1	-	-	-	-
	supe	r SLR	-	-	<b>Y</b>	1	1	✓
	Cable a bra	djuster cket	-	-	1	1	1	-
Bracket	Mat	erial	GFRP	GFRP	Aluminum	Aluminum	Aluminum	GFRP
	Fin	nish	GFRP	GFRP	Painted	Painted	Painted	GFRP
Main lever	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
man rever	Fin	nish	Painted	Painted	Painted	Painted	Painted	Painted
Average	weight (g)		-	-	-	-	-	-
N	ote							* Option

CS

WH

LID

### Shifting/Brake Lever

Se	ries		SHIMANO TOURNEY
Mod	el no.		ST-A073-L
Calle		1	Series color
Color	:	2	-
Dunchest source solon		1	Black
Bracket cover color	:	2	-
Leve	r type		DUAL CONTROL LEVER
	Front	speeds	3
	Rears	peeds	-
	OPTICA DISE	L GEAR PLAY	1
	FLIGHT	T DECK	-
	Multi-Bearing construction		-
Shifting lever	Outer casing	Lever side	OT-SIS40
		Rear deraille ur side	OT-SIS40
	Shifting lever cable	Materia I	Stainless steel *
		Finish	-
	Shifting lever cable	Not Pre- Assemb led	1
	shippin g conditio n	Pre- Assemb led	-
	Reach	adjust	Screw
	Clamp ba	and (mm)	23.8 - 24.2
Brake lever	SLR	R-EV	-
	NEW SU	IPER SLR	-
	supe	r SLR	1
	Cable a bra	idjuster cket	-
Bracket	Mat	erial	GFRP
	Fin	ish	GFRP
Main lever	Mat	erial	Aluminum
	Fin	ish	Painted
Average	weight (g)		-
No	* Option		



### Shifting/Brake Lever (Hydraulic Disc Brake)

Se	eries		DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Mod	Model no.		ST-R9120-R	ST-R9120-L	ST-R8020-R	ST-R8020-L	ST-R8025-R	ST-R8025-L
	1	1	Series color	Series color	Series color	Series color	Black	Black
Color		2	-	-	-	-	-	-
	_	1	Standard	Standard	Standard	Standard	Black	Black
Bracket cover color		2	-	-	-	-	-	-
Chiffe	er type		DUAL CONTROL	DUAL CONTROL	DUAL CONTROL	DUAL CONTROL	DUAL CONTROL	DUAL CONTROL
311110			LEVER	LEVER	LEVER	LEVER	LEVER	LEVER
		speeds	-	2	-	2	-	2
		peeds	11	-	11	-	11	-
		converter	-	-	-	-	-	-
	Max. mul	tiple shifts ver/rear)	2	-	2	-	2	-
		ible rear eur type	Road 11-speed	_	Road 11-speed		Road 11-speed	_
			Koau 11-speeu	-	Road 11-speed	-	Road 11-speed	-
		mpatible	-	-	-	-	-	-
	Shiftin	g lever n adjust	-	-	-	-	-	-
		MULTI						
		RELEASE	-	-	-	-	-	-
	Release function	INSTANT RELEASE	-	-	-	-		-
		2-WAY						
		RELEASE	-	-	-			-
		With	-	-	-	-	-	-
	OPTICAL GEAR	With (removab	<u>-</u>	_	_			_
Shifting lever	DISPLAY	le)						
<b>3</b>		Without	-	-	-	-	-	-
	Multi-	Bearing ruction	-	-	-,		-	-
	Consti	Lever						
	Shifting lever	side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
	outer	Rear derailleur side	OT-RS900	OT-RS900	OT-RS900	OT-RS900	OT-RS900	OT-RS900
		Polymer- coated	1	1	1	1	1	1
		Cable OPTISLIC K	-			-	-	-
	Chiffein	SIL-TEC	_			-	_	_
	Shifting lever	Stainless	-			-	-	
	cable	Steel	-		-	-		_
		Included	1	1	1	1	1	1
		Pre assemble	1	1	,	1	1	1
	<del>  .                                     </del>	d						
		e (Finger)	-	-	-	-	-	-
		ose (Kit)	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR
		joint	Straight	Straight	Straight	Straight	Straight	Straight
	Brake hose	1	Black	Black	Black	Black	Black	Black
	color (kit)		-	-	-	-	-	-
		nded brake iper	BR-R9170	BR-R9170	BR-R8070	BR-R8070	BR-R8070	BR-R8070
Brake lever	Brake fluid	SHIMAN O Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Minera
	Reach adjust	Tool less	-	-	-	-	-	-
		Tool	1	1	1	1	1	1
		bleeding	<i>*</i>	1	1	1	1	1
		ke adjust	1	1	1	1	1	1
	_	WAVE	1	1	1	1	1	1
Clamp band		clamp PEC	-	-	-	-	<u>-</u>	-
Clamp band						23.8-24.2	23.8-24.2	
		er (mm)	23.8-24.2 Engineering	23.8-24.2 Engineering	23.8-24.2 Engineering	23.8-24.2 Engineering		23.8-24.2 Engineering
	Material		Engineering Composite	Composite	Engineering Composite	Composite	Engineering Composite	Engineering Composite
Bracket	IVIA	ish		-	-	-	-	-
Bracket				CFRP	Engineering	Engineering	Aluminum	Aluminum
	Fir	erial	CFRP		Composite	Composite		
Bracket	Fir Mat	erial	CFRP		Delinte I	Politica I	Delete I	Detect 1
	Fir Mat Fir	ish	Painted	Painted	Painted	Painted	Painted	Painted
Brake lever	Fir Mat Fir	nish ain	Painted -	Painted -	-	-	-	-
Brake lever	Fir Mat Fir M Rel	ain ease	Painted - Resin & Steel	Painted - Resin & Steel	- Resin & Steel	- Resin & Steel	- Resin & Steel	- Resin & Steel
Brake lever	Fir Mat Fir M Rel	nish ain ease erial	Painted - Resin & Steel -	Painted - Resin & Steel -	- Resin & Steel -	- Resin & Steel	- Resin & Steel -	- Resin & Steel
Brake lever Shifter lever body Master cylinder	Fir Mat Fir M Rel Mat	ain ease	Painted - Resin & Steel	Painted - Resin & Steel	- Resin & Steel 	Resin & Steel	- Resin & Steel - -	Resin & Steel
Brake lever Shifter lever body Master cylinder Clam	Fir Mat Fir M Rel	nish ain ease erial	Painted - Resin & Steel -	Painted - Resin & Steel -	- Resin & Steel -	- Resin & Steel	- Resin & Steel -	- Resin & Steel

ST

ST

BL

BR

RR

BR

DC.

RD

FC BB

BB CS

FH

WH

129

## Shifting/Brake Lever (Hydraulic Disc Brake)

Sei	ries		SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO TIAGRA	SHIMANO TIAGRA
Mode	Model no.		ST-R7020-R	ST-R7020-L	ST-R7025-R	ST-R7025-L	ST-4720-R	ST-4720-L
		1	Silky Black	Silky Black	Silky Black	Silky Black	Series color	Series color
Color	- :	2	-	-	-	-	-	-
Bracket cover color		1	Standard -	Standard -	Standard -	Standard -	Standard -	Standard -
Shifte	r type		DUAL CONTROL LEVER					
	Front	speeds	-	2	-	2	-	2
		peeds	11	-	11	-	10	-
		converter tiple shifts	-	-	-	-	-	-
	(Main le	ver/rear)	2	-	2	-	2	-
		ible rear eur type	Road 11-speed	-	Road 11-speed	-	Road 10-speed	-
		mpatible g lever	-	-	-	-	-	-
	positio	n adjust	-	-	-	-	-	-
		MULTI RELEASE	-	-	-	-	-	-
	Release function	INSTANT RELEASE	-	-	-	-		-
		2-WAY RELEASE	-	-	-		-	-
		With	-	-	-	-	-	-
Shifting lever	OPTICAL GEAR DISPLAY	With (removab le)	-	-	-	·		-
		Without	-	-	-	-	-	-
	Multi-l	Bearing ruction	-	-	-,		-	-
		Lever	OT CD41	OT CD41	OT SD41	OT CD41	OT CD41	OT SD44
	Shifting lever	side Rear	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
	outer casing	derailleur side	OT-RS900	OT-RS900	OT-RS900	OT-RS900	OT-SP41	OT-SP41
		Polymer- coated cable	-	-		-	-	-
		OPTISLIC K	1		1	1	1	1
	Shifting	SIL-TEC	-		-	-	-	-
	lever cable	Stainless	-		-	-	-	-
		Steel	-	-	-	-	-	-
		Pre	1	1	1	1	1	<i>,</i>
	Loversiz	assemble d e (Finger)			-	-	-	-
			SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-J-SSR	SM-BH90-J-SSR
	Brake hose (Kit)		SM-BH90-J-SSR	SM-BH90-J-SSR	SM-BH90-J-SSR	SM-BH90-J-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR
		joint	Straight	Straight	Straight	Straight	Straight	Straight
	Brake hose	1	Black	Black	Black	Black	Black	Black
	color (kit)	2 nded brake	-	-	-	-		-
Brake lever	cali	per	BR-R7070	BR-R7070	BR-R7070	BR-R7070	BR-4770	BR-4770
	Brake fluid	SHIMAN O Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach	Tool less	-	-	-	-	-	-
	Reach adjust	Tool	1	1	1	1	1	1
		bleeding	1	1	1	1	1	<b>√</b>
		ke adjust	-	-	-	-	-	-
	_	clamp	-	-	-	-	-	-
Clamp band	<u> </u>	PEC	-	-	-	-	-	-
<u> </u>		er (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
Bracket	Mat	erial	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite
вгаскеt	Fin	ish	-	-	-	-	-	-
Brake lever		erial	Aluminium	Aluminium	Aluminium	Aluminium	Aluminum	Aluminum
DI AKE IEVET		ish	Painted	Painted	Painted	Painted	Painted	Painted
Shifter lever body		ain ease	- Resin & Steel					
Master called a		erial	-	-	-	-	-	-
Master cylinder	Fin	ish	-	-	-	-	-	-
	band		Steel	Steel	Steel	Steel	Steel	Steel
	weight (g)		610 ( /pair)	610 ( /pair)	619 ( /pair)	619 ( /pair)		-
No	ote		-	-	For small hand.	For small hand.		

### Shifting/Brake Lever (Hydraulic Disc Brake)

Se	ries		SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mod	lel no.		ST-4725-R	ST-4725-L	ST-RS685-R	ST-RS685-L	ST-RS405-R	ST-RS405-L
		1	Series color	Series color	Series color	Series color	Dark Gray	Dark Gray
Color		2	-	-	-	-	-	-
Bracket cover color	1 2		Standard -	Standard -	Black -	Black -	Black -	Black -
Shifte	er type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
	Front	speeds	-	2	-	2	-	2
		speeds	10	-	11	-	10	10
		converter tiple shifts	-	-	-	-	-	-
	(Main le	ver/rear)	2	-	2	-	2	-
		ible rear eur type ompatible	Road 10-speed	-	Road 11-speed	-	Road 10-speed	-
		ig lever	_			-		_
	positio	n adjust	-	-	-	-	-	-
		MULTI	-	-	-	-	-	-
	Release function	INSTANT RELEASE	-	-	-	-		-
		2-WAY RELEASE	-	-	-			-
		With	-	-	-	-	-	-
Chifting laws	OPTICAL GEAR DISPLAY	With (removab le)	-	-	-			-
Shifting lever		Without	-	-	-	-	-	-
	Multi-l	Bearing ruction	-	-	-,		-	-
	Shifting	Lever	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
	lever outer casing	side Rear derailleur	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Polymer- coated	-	-	1	1	-	-
		Cable OPTISLIC K	1			-	1	1
	Shifting	SIL-TEC	-	-	-	-	-	-
	lever cable	Stainless	-	-	-	-	-	-
		Steel	-	-	-	-	-	-
		Included	1	1	1	1	1	1
		Pre assemble d	1	1	•	1	✓	1
	Lever siz	e (Finger)			-	-	-	-
	Brake h	ose (Kit)	SM-BH90-J-SSR SM-BH90-JK-SSR	SM-BH90-J-SSR SM-BH90-JK-SSR	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS	SM-BH59-J-SS
		joint	Straight	Straight	Straight	Straight	Straight	Straight
	Brake hose	1	Black	Black	Black	Black	Black	Black
	color (kit)	2	•	-	White	White	-	-
Brake lever	Kecommer	nded brake iper	BR-4770	BR-4770	BR-RS785	BR-RS785	BR-RS405	BR-RS405
brake lever	Brake fluid	SHIMAN O Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust	Tool less	-	-	-	-	-	-
		Tool	<b>V</b>	1	1	1	1	1
		bleeding	1	1	1	1	1	1
		ke adjust WAVE	-	-	1	1	-	-
		clamp	-	-	-	-	-	-
Clamp band		PEC	-	-	-	-	-	-
<u> </u>		er (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
Dunalisa	Mat	terial	Engineering Composite	Engineering Composite	Aluminum	Aluminum	Aluminum	Aluminum
Bracket	Fir	nish	-	-	Painted	Painted	Painted	Painted
Dual I	1	terial	Aluminum	Aluminum	Engineering Composite	Engineering Composite	Aluminum	Aluminum
Brake lever		nish	Painted	Painted	Painted	Painted	Painted	Painted
Chifton laver best		ain	-	-	-	-	-	-
Shifter lever body	<del>                                     </del>	ease	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin
Master cylinder		terial	-	-	-	-	-	-
		nish	- Steel	- Steel	- Steel	- Steel	- Steel	- Steel
Clamp band		- steel	-				-	
	weight (q)	Average weight (g) Note		-	649 (/pair)	649 (/pair)	-	-

51

ST

SL BL

RR

BR

BR

BR

RD

FC

ВВ

НВ

WH

WH

### **Shifting Lever**

Ser	ies	DURA-ACE	SHIMANO	DURA-ACE	SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO TIAGRA
Mode	el no.	SL-BSR1	SL-RS700	SL-7900	SL-4700	SL-4703	SL-4603
Color	1	Series color	Black	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	Bar end Shifter	RAPIDFIRE PLUS	Down Tube Shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Fronts	speeds	2	2	2/3	2	3	3
Rear s	peeds	11	11	10	10	-	-
Compatible rear	derailleur type	ROAD 11-speed	ROAD 11-speed	ROAD 10-speed	RD-4700	RD-4700	-
Shifting lever	oosition adjust	-	-	-	-	-	-
Shifting leve	r cable adjust	-	1	-	1	✓	✓
Max. multiple shift	s (Main lever/rear)	-	4	-	4	-	-
	MULTI RELEASE	·	* <b>√</b> (Right) / - (Left)	-	-	-	-
Release function	INSTANT RELEASE	-	1	-	✓ (rear)	-	-
	2-WAY RELEASE	-	✓	-	1	1	1
	With	-	-	-	1	1	✓
OPTICAL GEAR DISPLAY	With (removable)	-	-	-	-	-	-
	Without	✓	1	✓	-	-	-
Multi-Bearing	construction	-	R:2 L:2	-	R:2 L:2	2	2
Shifting lever bracket	Material	-	Aluminum	-	Aluminum	Aluminum	Aluminum
bracket	Finish	-	Painted	-	Painted	Painted	Painted
Main lever body	Material	Aluminum	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
Walli level body	Finish	Clear Coated	Painted	Clear Coated	Painted	Painted	Painted
Release lever body	Material	-	GFRP & Steel	-	Resin & Steel	Resin & Steel	Resin & Steel
Release level body	Finish	-	-	-		-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
J ung icver cable	Finish	SIL-TEC	SIL-TEC	SIL-TEC	-	-	-
Recommended Shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average v	veight (g)	153 ( /pair)	210 ( /pair)	63 ( /pair)	-	-	-
No	te		* Pull: single Push: double				

Ser	ies	SHIMANO	DURA-ACE	SHIMANO SORA	SHIMANO SORA	SHIMANO SORA	SHIMANO
Mode	el no.	SL-R460	SL-7700	SL-R3000-R	SL-R3000-L	SL-R3030-L	SL-R350-R
Color	1	Black	Series color	Series color	Series color	Series color	Black
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	Down Tube Shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front s	speeds	2	2/3	-	2	3	-
Rear s	peeds	10	9	9	-	-	9
Compatible rear	r derailleur type	ROAD 10-speed	ROAD 9-speed	RD-R3000	FD-R3000	FD-R3030	ROAD 9-speed
Shifting lever	position adjust	-	-	-	-	-	-
Shifting leve	r cable adjust	1	-	✓	✓	✓	✓
Max. multiple shift	s (Main lever/rear)	4	-	3	-	-	3
	MULTI RELEASE		-	-	-	-	-
Release function	INSTANT RELEASE	√ (right side)	-	-	-	-	-
	2-WAY RELEASE	1	-	1	1	1	1
	With	<b>~</b>	-	✓	1	✓	1
OPTICAL GEAR DISPLAY	With (r <mark>emov</mark> able)	-	-	-	-	-	-
	Without	-	✓	-	-	-	-
Multi-Bearing	construction	R:2 L:2	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum
bracket	Finish	Painted	-	Painted	Painted	Painted	Painted
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Walli level body	Finish	Painted	Clear Coated	Painted	Painted	Painted	Painted
Release lever body	Material	Resin & Steel	-	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
Melease level body	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	SUS	SUS	SUS	Stainless steel
Jimung lever cable	Finish	-	-	OPTISLICK	OPTISLICK	OPTISLICK	-
Recommended Shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average v	veight (g)	-	-	-	-	-	-
No	ote	SHIMANO logo					SHIMANO logo

#### Shifting Lever

Ser	ies	SHIMANO	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO	SHIMANO A050
Model no.		SL-R353	SL-R2000-R	SL-R2000-L	SL-R2030-L	SL-R400	SL-A050-7R
Color	1	Black	Series color				
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Down Tube Shifter	Handle Bar Mount Shifter
Front s	speeds	3	-	2	3	2/3	-
Rear s	peeds	-	8	-	-	8	7
Compatible rear	derailleur type	-	ROAD 8-speed	-	-	ROAD 8-speed	ROAD 8-speed
Shifting lever p	oosition adjust	-	-	-	-	-	-
Shifting lever	cable adjust	1	1	1	1	-	-
Max. multiple shift	s (Main lever/rear)	-	3	-	-	-	-
	MULTI RELEASE	-	-	-	-	-	-
Release function	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	<b>~</b>	1	✓	-	-
	With	✓	✓	✓	1	-	-
OPTICAL GEAR DISPLAY	With (removable)	-	-	-			-
	Without	-	-	-	_	1	✓
Multi-Bearing	construction	-	-	-		-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	Steel
bračket	Finish	Painted	Painted	Painted	Painted		Zinc plated
Main lever body	Material	Aluminum	Resin & Steel	Resin & Steel	Resin & Steel	Aluminum	Resin
Main lever body	Finish	Painted	-	-	-	Painted	-
Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	-	Resin
nelease level body	Finish	-	-	-		-	-
Shifting lever cable	Material	Stainless steel	Steel	Steel	Steel	Stainless steel	Steel
Jilliung lever cable	Finish	-	OPTISLICK	OPTISLICK	OPTISLICK	-	Standard
Recommended Shiftii	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40
Average v	veight (g)	-	-	-		-	-
No	te	SHIMANO logo					

Sei	ries	SHIMANO A050	SHIMANO	SHIMANO	
Mode	el no.	SL-A050-LN	SL-SY20A-7	SL-SY20A-6	
Color	1	Series color	Series color	Series color	
Color	2	-	-	-	
Shifte	r type	Handle Bar Mount Shifter	Down Tube Mou <mark>nt</mark> Shifter	Down Tube Mount Shifter	
Front :	speeds	2 (Friction)	2 (Friction)	2 (Friction)	
Rear s	peeds	-	7	6	
Compatible rea	r derailleur type	-	ROAD 8-speed	ROAD 6-speed	
Shifting lever	oosition adjust		-	-	
Shifting leve	r cable adjust	-	-	-	
Max. multiple shift	s (Main lever/rear)		-	-	
	MULTI RELEASE	-	-	-	
Release function	INSTANT RELEASE		-	-	
	2-WAY RELEASE	-	-	-	
	With	-	-	-	
OPTICAL GEAR DISPLAY	With (removable)	-	-	-	
	Without	✓	1	✓	
Multi-Bearing	construction	-	-	-	
Shifting lever bracket	Material	Steel	Steel	Steel	
bračket	Finish	Zinc plated	Zinc plated	Zinc plated	
Main lavan badı	Material	Resin	Resin	Resin	
Main lever body	Finish	-	-	-	
Release lever body	Material	Resin	Resin	Resin	
nelease lever body	Finish	-	-	-	
Chifting laws sable	Material	Steel	Steel	Steel	
Shifting lever cable	Finish	Standard	Standard	Standard	
Recommended Shifti	ng lever outer casing	OT-SIS40	OT-SIS40	OT-SIS40	
Average v	weight (g)	-	-	-	
No	ote		Stem and brazed on, band types are available	Stem and brazed on, band types are available	

RD

FD

ВВ

НВ

FH WH

WH

#### Brake Lever

Se	ries	DURA-ACE	SHIMANO TIAGRA	SHIMANO SORA	SHIMANO CLARIS	SHIMANO	SHIMANO
Mod	el no.	BL-TT79	BL-4700	BL-R3000	BL-R2000	BL-R780	BL-R550
	1	Black	Series color	Series color	Series color	Silver	Silver
Color	2	-	-	-	-	Black	Black
	3	-	-	-	-	-	-
	V-BRAKE	-	1	1	✓	1	-
	Mechanical disc brake (Road)	1	✓	1	1	1	1
Compatible brake type	Caliper (NEW SUPER SLR)	1	✓	1	✓	1	-
	Caliper (super SLR)	-	-	-	-	-	1
	Cantilever brake	✓	✓	1	1	1	1
	Roller brake	-	-	-	-	-	-
Recommended POWER	V-BRAKE	-	-	-	-	-	-
POWER MODULATOR	Mechanical disc brake (MTB)	-	-	-		•	-
	Open clamp band	-	-	-	-	-	-
Clamp band	I-SPEC compatible	-	-	-			-
	Diameter (mm)	*	22.2	22.2	22.2	22.2	22.2
Internal bu	umper stop	-	✓	1	1	1	-
Lever siz	e (finger)	-	2.5	2.5	2.5	2.5	2.5
Brake ca	ble type	-	T-type	T-type	T-type	T-type	T-type
Power	adjuster	-	-	-	-	-	-
SERVO	WAVE	-	-	-	·	-	-
Reach	adjust	1	<b>4</b>	1	1	✓	1
Cable	adjust	-	V	1	1	✓	✓
Cable ad	just type	-	Two hand	Two hand	Two hand	Two hand	Two hand
Brake lever	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
brake lever	Finish	Painted	Anodized	Anodized	anodized	Anodized	Anodized
Brake bracket	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
ы аке ргаскет	Finish	Painted	Painted	Painted	painted	Painted	Painted
Average v	Average weight (g)			-	-	170 ( /pair)	-
Note		* Fixation structure is expanding plug clamp, handle bar inside diameter: 19.0 - 22.5 dim, handle bar outside diameter: 22.2 - 24.0 dim.					

#### Brake Lever

Sei	ries	SHIMANO				
Mode	el no.	BL-R400				
	1	Series color				
Color	2	-				
	3	-				
	V-BRAKE	-				
	Mechanical disc brake (Road)	-				
Compatible brake type	Caliper (NEW SUPER SLR)	-				
	Caliper (super SLR)	✓				
	Cantilever brake	-				
	Roller brake	-				
Recommended	V-BRAKE	-				
POWER MODULATOR	Mechanical disc brake (MTB)	-				
	Open clamp band	-				
Clamp band	I-SPEC compatible	-				
	Diameter (mm)	23.8-24.2				
Internal bu	ımper stop	-				
Lever siz	e (finger)	-				
Brake ca	ble type	-				
Power a	adjuster	-				
SERVO	WAVE	-				
Reach	adjust	-				
Cable	adjust	-				
Cable ad	just type	-				
Dualta lavor	Material	Aluminum				
Brake lever	Finish	Barrel				
Buoko busakat	Material	Aluminum				
Brake bracket	Finish	Anodized				
Average v	Average weight (g)					
No						



ST

BL

21

3R

BR

IVD

CS

HR

FH

WH

WH

## Brake Lever (Hydraulic Disc Brake)

Sai	ries	SHIMANO				
Mode		BL-RS600				
Mode	ei no.	Hydraulic disc				
Brake	Brake type					
Lever size	3					
	1	Black				
Color	2	-				
	3	-				
Brake h	SM-BH59-JK-SS					
Hose	Straight					
Brake hose color	1	Black				
Brake hose color (Kit)	2	-				
Recommended	Recommended brake caliper					
O	SHIMANO Mineral					
Funnel b	oleeding	1				
Danah adiwat	Toolless	-				
Reach adjust	Tool	1				
Free stro	ke adjust	-				
SERVO	WAVE	-				
	Open clamp	1				
Clamp band	I-SPEC B	-				
	I-SPEC II	1				
Clamp bolt	Material	Stainless steel				
	Finish	-				
Burlin Innov	Material	Aluminum				
Brake lever	Finish	Anodized				
	Material	Aluminum				
Master cylinder	Finish	Painted				
No	Note					



WH

### Brake (Caliper Brake)

Ser	ies		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Model no.		BR-R9100	BR-R9110-F	BR-R9110-R	BR-R9110-RS	BR-R8000	BR-R8010-F	
	1		Series color	Series color	Series color	Series color	Series color	Series color
Color	2	2	-	-	-	-	-	-
Brake	type		SLR EV Dual Pivot	Direct mount type	Direct mount type	Direct mount type	SLR EV Dual Pivot	Direct mount type
Reach	(mm)		51	51	51	51	51	51
	Stan	dard	R55C4	R55C4	R55C4	R55C4	R55C4	R55C4
Brake shoe	Optiona	al choice	R55C4 Carbon R55C4-A Carbon R55CT4	R55C4 Carbon R55C4-A Carbon R55CT4	R55C4 Carbon R55C4-A Carbon R55CT4	R55C4 Carbon R55C4-A Carbon R55CT4	R55C4 Carbon R55C4-A Carbon R55CT4	R55C4 Carbon R55C4-A Carbon R55CT4
Compa	tibility		SLR EV	SLR EV	SLR EV	SLR EV	SLR EV	SLR EV
		10.5	1	-	-	-		-
		12.5	1	-	-	-	1	-
A	Front (mm)	18.0	1	-	-	-	1	-
Assembly pivot nut (mm)		27.0	1	-	-		1	-
		32.0	1	-	-	-	1	-
	Rear (mm)	10.5	1	-	-	-		-
Cartridge shoe holder		1	1	1	1	<b>V</b>	•	
Tire guide bumpers		1	1	1	1	1	✓	
Quick release lever		1	✓	-	1	1	✓	
Shoe angle adjusting		1	✓	1	1	1	✓	
Spring tension	on adjustin	g	-	-	1	-	-	-
Maximun	n tire size		28C	28C	28C	28C	28C	28C
Rim wid	th (mm)		20.8 - 28	20.8 - 28	20.8 - 28	20.8 - 28	20.8 - 28	20.8 - 28
Cartridge shoe	Mat	erial	Magnesium	Magnesium	Magnesium	Magnesium	Aluminum	Aluminum
holder	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
C-arm	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
1-aiiii	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Mat	erial	Aluminum	-	-	-	Aluminum	-
Gate	Fin	ish	Anodized	-	-	-	Anodized	-
Quick release lever	Mat	erial	Resin	Resin	-	Resin	Resin	Resin
Quick release lever	Fin	ish	Painted	Painted	-	Painted	-	-
Titanium cab	le fixing bo	olt	1	1	1	1	-	-
Titanium	pivot bolt		1	√ (fixing bolt)	√ (fixing bolt)	✓ (fixing bolt)	-	-
Average v	veight (g)		326 ( /pair)	150 ( /pc)	139 ( /pc)	148 ( /pc)	182 (Front) 178 (Rear)	174 ( /pc)
No	ote				Need inline cable adjuster (SM-CB90) for cable adjusting and quick release feature.			

## Brake (Caliper Brake)

Ser	ies		SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO 105
Model no.		BR-R8010-R	BR-R8010-RS	BR-6800	BR-6810-F	BR-6810-RS	BR-R7000	
	1		Series color	Series color	Series color	Series color	Series color	Silky black
Color	2	2	-	-	-	-	-	Spark silver
Brake	type		Direct mount type	Direct mount type	SLR EV Dual Pivot	Direct mount type	Direct mount type	SLR EV Dual Pivot
Reach	(mm)		51	51	51	51	51	51
	Stan	dard	R55C4	R55C4	R55C4	R55C4	R55C4	R55C4
Brake shoe	Optiona	al choice	R55C4 Carbon R55C4-A Carbon R55CT4	R55C4 Carbon R55C4-A Carbon R55CT4	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon R55CT4
Compa	tibility		SLR EV	SLR EV	SLR EV	SLR EV	SLR EV	SLR EV
		10.5	-	-	1	-	-	✓
		12.5	-	-	1	-	-	1
A	Front (mm)	18.0	-	-	1	-	-	✓
Assembly pivot nut (mm)		27.0	-	-	1	-	-	1
		32.0	-	-	1	-	-	<b>√</b>
	Rear (mm)	10.5	-	-	1		1	1
Cartridge shoe holder			1	✓	1	1	1	✓
Tire guide bumpers		1	✓	1	1	1	✓	
Quick release lever		-	✓	1	1	1	✓	
Shoe angle adjusting		1	1	1	1	1	✓	
Spring tension	Spring tension adjusting		1	-	1	-	-	-
Maximun	n tire size		28C	28C	25C	28C	28C	28C
Rim wid	th (mm)		20.8 - 28	20.8 - 28	*19 - 28	*19 - 28	*19 - 28	20.8 - 28
Cartridge shoe	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Cartridge shoe holder	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
C-arm	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
1-aiiii	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Mat	erial	-	-	Aluminum	-	-	Aluminum
date	Fin	ish	-	-	Anodized	-	-	Anodized
Quick release lever	Mat	erial	4	Resin	Aluminum	Aluminum	Aluminum	Resin
Quick release level	Fin	ish		-	Painted	Painted	Painted	-
Titanium cab	le fixing bo	olt	-	-	-	-	-	-
Titanium <sub> </sub>	pivot bolt		-	-	-	-	-	-
Average v	veight (g)		160 ( /pc)	172 ( /pc)	335 ( /pair)	173 ( /pc)	168 ( /pc)	379 ( /pair)
No	te		Need inline cable adjuster (SM-CB90) for cable adjusting and quick release feature.		Maximum tire size: 25 mm Rim width: 19-26 mm/19-28 mm (R55C4-A Carbon)	Maximum tire size: 28 mm Rim width: 19-26 mm/19-28 mm (R55C4-A Carbon)	Maximum tire size: 28 mm Rim width: 19-26 mm/19-28 mm (R55C4-A Carbon)	-

WH

WH

### Brake (Caliper Brake)

Ser	ies		SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO TIAGRA	SHIMANO SORA	SHIMANO CLARIS
Model no.		BR-R7010-F	BR-R7010-R	BR-R7010-RS	BR-4700	BR-R3000	BR-R2000	
		1	Silky black	Silky black	Silky black	Series color	Series color	Series color
Color		2	-	-	-	-	-	-
Brake	type		Direct mount type	Direct mount type	Direct mount type	NEW SUPER SLR Dual pivot	NEW SUPER SLR Dual pivot	NEW SUPER SLR Dual pivot
Reach	(mm)		51	51	51	51	51mm	51mm
	Stan	dard	R55C4	R55C4	R55C4	R50T5	R50T5	R50T5
Brake shoe	Optiona	al choice	R55C4 Carbon R55C4-A Carbon R55CT4	R55C4 Carbon R55C4-A Carbon R55CT4	R55C4 Carbon R55C4-A Carbon R55CT4	R50T4	R50T4	R50T4
Compa	tibility		SLR EV	SLR EV	SLR EV	NEW SUPER SLR	NEW SUPER SLR	NEW SUPER SLR
		10.5	-	-	-	1	1	1
		12.5	-	-	-	1	1	1
	Front (mm)	18.0	-	-	-	1	✓	1
Assembly pivot nut (mm)		27.0	-	-	-	_	1	1
		32.0	-	-	-	1	1	1
	Rear (mm)	10.5	-	-	-	1	1	1
Cartridge shoe holder			1	1	1		-	-
Tire guide bumpers		1	1	•		-	-	
Quick release lever		1	-	1	1	1	1	
Shoe angle adjusting		1	1	1	1	1	1	
Spring tension	on adjustin	g	-	1		-	-	-
Maximun	n tire size		28C	28C	28C	28C	28 mm	28 mm
Rim wid	th (mm)		20.8 - 28	20.8 - 28	20.8 - 28	19 - 26	19 - 28	19 - 26
Cartridge shoe holder	Mat	erial	Aluminum	Aluminum	Aluminum	-	-	-
holder	Fin	ish	Painted	Painted	Painted	-	-	-
C 21111	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
C-arm	Fin	ish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Varm	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Y-arm	Fin	ish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Gate	Mat	erial	-	-	-	Aluminum	Aluminum	Aluminum
Gate	Fin	ish		-	-	Anodized	Anodized	Anodized
Quick release lever	Mat	erial	Resin	-	Resin	Resin	Resin	Resin
Quick release lever Finish		ish	-	-	-	Painted	-	-
Titanium cab	le fixing bo	olt		-	-	-	-	-
Titanium	pivot bolt			-	-	-	-	-
Average v	veight (g)		174 ( /pc)	173 ( /pc)	174 ( /pc)	-	-	-
No	ote		-	Need Inline cable adjuster (SM-CB90) for cable adjusting and quick release feature.	-			

139

### Brake (Caliper Brake)

Ser	ies		SHIMANO	SHIMANO
Mode	el no.		BR-R561	BR-R451
Color		1	Silver	Black
Color		2	Black	Silver
Brake	type		NEW SUPER SLR Dual pivot	SUPER SLR Dual Pivot
Reach	(mm)		49	57
	Stan	dard	R55C3	R50T2
Brake shoe	Optional choice		R55C for Ceramic rim R55C3 for Carbon rim	-
Compa	tibility		NEW SUPER SLR	SUPER SLR
		10.5	1	<b>~</b>
		12.5	1	1
Accombly pivot put	Front (mm)	18.0	1	✓
Assembly pivot nut (mm)		27.0	1	✓
		32.0	-	-
	Rear (mm)	10.5	1	<b>√</b>
Cartridge s	hoe holder		✓	-
Tire guide	bumpers		-	-
Quick rele	ease lever		1	✓
Shoe angle	adjusting		1	<b>~</b>
Spring tensi	on adjustin	g	-	-
Maximun	n tire size		28C	32C
Rim wid	th (mm)		19 - 26	19 - 26
Cartridge shoe holder	Mat	erial	Aluminum	-
holder	Fin	ish	Painted	-
C-arm	Mat	erial	Aluminum	Aluminum
C-arm	Fin	ish	Anodized	Painted
Y-arm	Mat	erial	Aluminum	Aluminum
r-arm	Fin	ish	Anodized	Painted
Gate	Mat	erial	Aluminum	Aluminum
Gate	Fin	ish	Anodized	Painted
Quick release lever	Mat	erial	Zinc	Resin
Finish			Plated	-
Titanium cab	le fixing bo	olt		-
Titanium	pivot bolt			-
Average v	veight (g)		-	-
No	ote		Maximum tire size: 28 mm	Quick release lever wider open Maximum tire size: 32 mm



WH

### Brake (Hydraulic Disc Brake)

		<b>-</b>		Г			
Series		DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO 105	SHIMANO 105
Model no.		BR-R9170-F	BR-R9170-R	BR-R8070-F	BR-R8070-R	BR-R7070-F	BR-R7070-R
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Color	1	Series color	Series color	Series color	Series color	Silky black	Silky black
	2	-	-	-	-	Spark silver	Spark silver
	3	-	-	-	-	-	-
Brake hose (Kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (Kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
ICE TECHNOLOGIES pad compatible caliper		1	1	1	1	1	✓
Brake Pad	Standard 1	K02Ti Resin K03Ti Resin	K02Ti Resin K03Ti Resin	K02S Resin K03S Resin	K02S Resin K03S Resin	K02S Resin K03 <mark>S Re</mark> sin	K02S Resin K03S Resin
	Standard 2	L02A Resin L03A Resin	L02A Resin L03A Resin	L02A Resin L03A Resin	L02A Resin L03A Resin	L02A Resin L03A Resin	L02A Resin L03A Resin
	Option 1	K04Ti Metal	K04Ti Metal	K04S Metal	K04S Metal	K04S Metal	K04S Metal
	Option 2	L04C Metal	L04C Metal	L04C Metal	L04C Metal	L04C Metal	L04C Metal
Fixing bolt spec for rear mount	10 mm mount	-	-	-	1	-	✓
	15 mm mount	-	-	-	1	-	✓
	20 mm mount	-	1	-	1	-	✓
	25 mm mount	-	1	-	1	-	✓
	30 mm mount	-	1	-	1	-	✓
	35 mm mount	-	-	7	1	-	✓
	15.2 mm	-		-	-	-	-
	18.7 mm	-	·	-	-	-	-
Recommended brake lever		ST-R9180 ST-R9170 ST-R9120	ST-R9180 ST-R9170 ST-R9120	ST-R8070 ST-R8020	ST-R8070 ST-R8020	ST-R7020 ST-R7025	ST-R7020 ST-R7025
Recommended disc brake rotor		SM-RT900	SM-RT900	SM-RT800	SM-RT800	SM-RT70	SM-RT70
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		1	1	1	1	1	✓
Mount type		Flat mount	Flat mount	Flat mount	Flat mount	Flat mount	Flat mount
Piston		2	2	2	2	2	2
Piston material		Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Caliper	MONO-BODY		-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodizing	Anodizing	Anodizing	Anodizing	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	4 mm	4 mm	4 mm	4 mm	4 mm	4 mm
	Anti loosen method	Bolt fix pin, snap ring	Bolt fix pin	Bolt fix pin, snap ring	Bolt fix pin	Bolt fix pin, snap ring	Bolt fix pin
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		133 ( /pc)	123 ( /pc)	148 ( /pc)	138 ( /pc)	147 ( /pc)	138 ( /pc)
Note						-	-

## Brake (Hydraulic Disc Brake)

Ser	ies	SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	BR-4770-F	BR-4770-R	BR-RS785	BR-RS405-F	BR-RS405-R
Brake	type	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
	1	Series color	Series color	Series color (ULTEGRA)	Dark Gray	Dark Gray
Color	2	-	-	-	-	-
	3	-	-	-	-	-
Brake ho	ose (Kit)	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS
Hose	joint	Straight	Straight	Straight	Straight	Straight
Brake hose color	1	Black	Black	Black	Black	Black
Brake hose color (Kit)	2	-	-	White	-	-
ICE TECHNOLOGIE cali	S pad compatible per	-	-	1	1	1
	Standard 1	K03S Resin	K03S Resin	J02A Resin J03A Resin	K02S Resin K03S Resin	K02S Resin K03S Resin
Brake Pad	Standard 2	K04S Metal	K04S Metal	J04C Metal	-	-
втаке гад	Option 1	L03A-R	L03A-R	G02A Resin G03A Resin	L02A Resin L03A Resin	L02A Resin L03A Resin
	Option 2	-	-	G03S Metal	-	-
	10 mm mount	-	1	-		1
	15 mm mount	-	1	-		1
	20 mm mount	-	1	-	-	1
Fixing bolt spec for	25 mm mount	-	1	-	-	1
Fixing bolt spec for rear mount	30 mm mount	-	1	-	-	1
	35 mm mount	-	1		-	1
	15.2 mm	-	-	-	-	-
	18.7 mm	-	-	1	-	-
Recommende	d brake lever	ST-4720 ST-4725	ST-4720 ST-4725	ST-R8070	ST-RS405 BL-RS600	ST-RS405 BL-RS600
Recommended	disc brake rotor	SM-RT64	SM-RT64	SM-RT99	SM-RT70	SM-RT70
0	il	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY	BLEEDING		1	1	✓	1
Moun	t type	Flat mount	Flat mount	Post-mount	Flat mount	Flat mount
Pist	ton	2	2	2	2	2
Piston r	naterial	Resin	Resin	Ceramic	Resin	Resin
	MONO-BODY		-	-	-	-
Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel
Caliper fixing bolt	Tool size	4 mm	4 mm	5 mm	4 mm	4 mm
	Anti loosen method	Bolt fix pin, snap ring	Bolt fix pin	Snap ring	Bolt fix pin, snap ring	Bolt fix pin
Pad n	nount	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average v	veight (g)	-	-	271 ( /pair)	-	-
No	te	-	-			

## Brake (Mechanical Disc Brake)

Sei	ries	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	BR-R317	BR-RS305-F	BR-RS305-R
Brake	type	Mechanical disc brake	Mechanical disc brake	Mechanical disc brake
Color	1	Black	Black	Black
Color	2	-	-	-
Compa	ntibility	NEW SUPER SLR	NEW SUPER SLR	NEW SUPER SLR
ICE TECHI pad compa	NOLOGIES tible caliper	-	1	1
	Standard	G03S Resin	K03S Resin	K03S Resin
Pad	Option 1	-	L03A Resin	L03A Resin
rau	Option 2	-	-	-
	Option 3	-	-	-
	10 mm mount	-	-	✓
	15 mm mount	-	-	✓
Fixing bolt spec for	20 mm mount	-	-	✓
rear mount	25 mm mount	-	-	✓
	30 mm mount	-	-	✓
	35 mm mount	-	-	1
Recommende	d Brake Lever	BL-R2000	-	_
Recommended	disc brake rotor	SM-RT54 (160 mm), SM-RT70 (140 mm)	SM-RT54/RT56 (160 mm), SM-RT70 (140 mm/160 mm)	SM-RT54/RT56 (160 mm), SM-RT70 (140 mm/160 mm)
Moun	t type	Post mount	Flat mount	Flat mount
Pis	ton	1	1	1
Piston r	naterial	-	-	-
	MONO-BODY	-	-	-
Caliper	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
	Material	Steel	Steel	Steel
Caliper fixing bolt	Tool size	5 mm	4 mm	4 mm
	Anti loosen method	Snap ring	Bolt fix pin/snap ring	Bolt fix pin
Pad n	nount	Pad ax <mark>le</mark>	Pad axle	Pad axle
Average v	weight (g)		-	-
No	ote	SHIMANO logo	SHIMANO logo	SHIMANO logo



## Brake (V-BRAKE)

Ser	Series					
Mode	BR-R353					
	1	Silver				
Color	2	Black				
	3	-				
Brake	type	V-BRAKE				
	Standard 1	S70T				
Brake shoe	Standard 2	-				
втаке зпое	Option 1	M70T4				
	Option 2	-				
Cartridge s	hoe holder	-				
Arch siz	ze (mm)	90				
S	X type	✓				
Spacer type	Y type	-				
Compatible lead	pipe angle (deg.)	45/90/135				
Sleeve & Bi	ushing axle	1				
V (C-1)	Material	Aluminum				
V-arm/Caliper	Finish	Painted				
Fixing bolt length	16	1				
Fixing bolt length (mm)	25	1				
	Material	Steel				
Fixing bolt	Finish	Plated (Black)				
	Chamfered bolt	-				
Link	wire	-				
Reinfor	ced link	-				
Parall	Parallel link					
POWER MO	-					
Linear	Linear spring					
Threaded bra	ike shoe post	1				
Average v	veight (g)	-				
No	ote	SHIMANO logo				

## Brake (Cantilever Brake)

Ser	ies	SHIMANO				
Mode	Model no.					
	1	Silver				
Color	2	-				
Brake	type	Cantilever brake				
Rea	ach	-				
	Standard	R50T2				
Brake shoe	Optional choice	-				
Compa	Compatibility					
Assembly pix	ot nut (mm)	-				
Cartridge s	hoe holder	-				
Tire guide	bumpers	-				
Quick rele	ease lever					
Toe-in	adjust	1				
Spring tension	on adjusting	1				
Cartridge shoe holder	Material	-				
holder	Finish					
Cantilever	Material	Aluminum				
Cantilever	Finish	Anodized				
Average v	veight (g)	175 g				
No	ote	Cyclecross usage				

## Brake Cable

Ser	ries	DURA-ACE	SHIMANO	SHIMANO
Mode	el no.	BC-9000	BC-R680	BC-1051
	High-tech Gray	1	1	1
	Black	1	1	1
	White	1	1	1
Color	Red	1	1	✓
Color	Blue	1	1	-
	Lime-Green	1	1	-
	Orange	1	1	-
	Yellow	1	1	-
Brake	type	Caliper	Caliper	Caliper
	Material	Stainless steel	Stainless steel	Steel
Inner cable	Coated	Polymer-coated cable	Polymer-coated cable	-
	Material	Steel (Plated)	Steel (Plated)	Steel
Outer casing	Prelubricated casings	1	1	-
No	ote			

## Rear Derailleur

Seri	ies	DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Model no.		RD-R9100-SS	RD-9000-SS	RD-R8000-SS	RD-R8000-GS	RD-6800-SS	RD-6800-GS
Pulley	cage	SS	SS	SS	GS	SS	GS
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Rear s	peeds	11	11	11	11	11	11
Compatib	ole chain	HG-EV 11-speed/HG- X11	HG-EV 11-speed/HG- X11	HG-EV 11-speed/HG- X11	HG-EV 11-speed/HG- X11	HG-EV 11-speed/HG- X11	HG-EV 11-speed/HG- X11
	SHIMANO SHADOW RD	<b>√</b>	-	1	1	-	-
Top-Normal spring type	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	-	1	-	-	1	1
	Direct attachment (Conventional)	<b>√</b> *	1	<b>√</b> *	<b>√</b> *	1	1
Mount	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Cable a	djuster	1	1	1	1	1	1
Max. front	difference	16T	16T	16T	16T	16T	16T
Total ca	pacity	35T	33T	35T	39T	33T	37T
Lauranna alrad	Max.	30T	28T	30T	34T	28T	32T
Low sprocket	Min.	25T	23T	25T	28T	23T	28T
Tom onweaket	Max.	14T	14T	14T	12T	14T	12T
Top sprocket	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated	link bushings	4	4	4	4	4	4
	G pulley bearing	✓	1	1	1	1	1
	T pulley bearing	1	1	1	1	1	1
Bullov	Teeth	11T	11T	11T	11T	11T	11T
Pulley	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	✓	<b>/</b>	1	1	<b>✓</b>	1
	Material	Aluminum	-	-	-	-	-
Bracket	Finish	Anodized	-	-	-	-	-
	Hollow axle	1	1	1	1	1	1
B-axle	Material	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel
•	Finish	Anodized	-		-	-	-
	Hollow axle	-	-	_	-	-	-
B-axle 2	Material	Aluminum	-	-	-	-	-
	Finish	Anodized	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Bracket body	Finish	Anodiz <mark>ed</mark>	Anodized	Painted	Painted	Painted	Painted
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
P-axle	Finish	Plated	Plated	Plated	Plated	Plated	Plated
	Material	CFRP	CFRP	GFRP	GFRP	CFRP	CFRP
Plate body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer link	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
	Material	Aluminum	Aluminum	GFRP	GFRP	Aluminum	Aluminum
Inner link	Finish	Anodized	Anodized	-	-	Painted	Painted
	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
Outer plate	Finish	Clear Coated	Clear Coated	Painted	Painted	Painted	Painted
	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
Inner plate	Finish	Clear Coated	Clear Coated	Painted	Painted	Painted	Painted
l Average w		158	158	200	210	195	207
			130			133	201
No	te	* w/o Bracket spec available		* w/o Bracket spec available	* w/o Bracket spec available		

ST

ST

SL

BL

DN

BR

BR

BR

ВС

RD FD

FC

BB BB

НВ

FH

WH

## Rear Derailleur

Seri	ies	SHIMANO ULTEGRA RX	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO TIAGRA
Mode	l no.	RD-RX800-GS	RD-R7000-SS	RD-R7000-GS	RD-5701-SS	RD-5701-GS	RD-4700-SS
Pulley	cage	GS	SS	GS	SS	GS	SS
Calcu	1	Series color	Silky black	Silky black	Black	Black	Series color
Color	2	-	Spark silver	Spark silver	Silver	Silver	-
Rear s <sub>l</sub>	peeds	11	11	11	10	10	10
Compatib	ole chain	HG-X11	HG-EV 11-speed/HG- X11	HG-EV 11-speed/HG- X11	HG 10-speed	HG 10-speed	HG-X Chain
	SHIMANO SHADOW RD	-	✓	1	-	-	-
Top-Normal spring type	SHIMANO SHADOW RD+	<b>√</b>	-	-	-	-	-
	Double servo	-	-	-	1	✓	1
	Direct attachment (Conventional)	<b>√</b> *	<b>√</b> *	<b>√</b> *	1	1	1
Mount	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Cable a	djuster	<b>✓</b>	1	1	1	1	<b>✓</b>
Max. front	difference	16T	16T	16T	16T	16T (Front double) 22T (Front triple)	16T
Total ca	pacity	39T	35T	39T	34T	40T	33T
Low sprocket	Max.	34T	30T	34T	30 <b>T</b>	32T (Front double) 30T (Front triple)	28T
	Min.	28T	25T	28T	25T	27T (Front double) 25T (Front triple)	25T
Top sprocket	Max.	11T	14T	12T	14T	12T (Front double) 14T (Front triple)	14T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated	link bushings	4	2	2	2	2	2
	G pulley bearing	✓	-	-	-	-	-
	T pulley bearing	✓	-	-	-	-	-
Pulley	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	✓	1	1	1	1	1
Bracket	Material	Aluminum	•	-	-	-	-
Didence	Finish	Anodized	-	-	-	-	-
	Hollow axle	1	-	-	-	-	-
B-axle	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Stainless steel
	Finish		-	-	Plated	Plated	-
	Hollow axle			-	-	-	-
B-axle 2	Material	-		-	-	-	-
	Finish		-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
-	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Alumi	Plated	Plated	Plated	Plated	Plated
Plate body	Material	Aluminum	GFRP	GFRP	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Ma <mark>terial</mark>	Aluminum Painted	GFRP -	GFRP -	Steel	Steel	Steel
	Finish Material				Plated	Plated Aluminum	Plated
Outer plate	Materia <mark>l</mark> Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted	Painted	Steel Plated
Inner plate	Material Finish	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
۸,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Painted 248	Painted 225	Painted 232	Painted 230	Painted 243	Plated -
Average w					230	243	-
No	te	* w/o bracket spec available	* w/o Bracket spec available	* w/o Bracket spec available			

ST

BR

BR

BR

BR

ВС

RD

FD

ВВ

ВВ

НВ

FH

WH

WH

### Rear Derailleur

Series		SHIMANO TIAGRA	SHIMANO SORA	SHIMANO SORA	SHIMANO	SHIMANO CLARIS	SHIMANO CLARIS
Mode	el no.	RD-4700-GS	RD-R3000-SS	RD-R3000-GS	RD-R350-GS	RD-R2000-SS	RD-R2000-GS
Pulley	/ cage	GS	SS	GS	GS	SS	GS
Calan	1		Series color	Series color	Black	Series color	Series color
Color	2	-	-	-	-	-	-
Rear s	speeds	10	9	9	9	8	8
Compati	ble chain	HG-X Chain	HG 9-speed	HG 9-speed	HG 9-speed	HG 8-speed	HG 8-speed
Ton Normal spring	SHIMANO SHADOW RD	-	-	-	-	-	-
Top-Normal spring type	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	1		1	1	1	<b>√</b>
	Direct attachment (Conventional)	1	<b>1</b>	1	1	1	✓
Mount	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Cable a	ndjuster	1	· ·	1	1	1	<b>√</b>
Max. front	difference	16T (Front double) 20T (Front triple)	16T	20T	20Т	16T	20T
Total c	apacity	41T	37T	43T	41T	37T	43T
Low sprocket	Max.	34T (Front double) 32T (Front triple)	32T	34T	32T	32T	34T
p. oenee	Min.	28T (Front double) 25T (Front triple)	25T	28T	25T	25T	28T
Top sprocket	Max.	12T	14T	14T	14T	13T	13T
Min.		11T	11T	11T	11T	11T	11T
Fluoric coated	Fluoric coated link bushings		2	2	2	-	-
	G pulley bearing	-	-	<u> </u>	-	-	-
	T pulley bearing	-	-	-	-	-	-
Pulley	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley bolt	✓		-	1	1	1
Bracket	Material	-	•	-	-	-	-
Diucket	Finish	-	-	-	-	-	-
	Hollow axle	-	-	-	-	-	-
B-axle	Material	Stainless stee <mark>l</mark>	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	<u> -</u>	-	Plated	Plated
	Hollow axle		-	-	-	-	-
B-axle 2	Material	-		-	-	-	-
	Finish			-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
-	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Plate body	Material Finish	Aluminum Painted	Resin Painted	Resin Painted	Resin	Resin Painted	Resin Painted
	Material	Aluminum	Aluminum	Aluminum	Painted Aluminum	Steel	Steel
Outer link	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Inner link	Finish	Plated	Painted	Painted	Painted	Painted	Painted
Out on 1.1	Material	Steel	Steel	Steel	Steel	Steel	Steel
Outer plate	Finish	Plated	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Inner plate	Finish	Plated	Painted	Painted	Painted	Painted	Painted
Average v	weight (g)	-	-	-	-	-	-
Ne	ote				SHIMANO logo		

147

## Rear Derailleur

l no. cage 1	RD-A070 Smart Series color					
1	Series color					
2	-					
peeds	7					
Compatible chain						
SHIMANO SHADOW RD	-					
SHIMANO SHADOW RD+	-					
Double servo						
Direct attachment (Conventional)	✓					
Riveted adapter (Road type)	✓					
Riveted adapter (BMX-Track type)	-					
djuster	✓					
difference	20T					
pacity	37T					
Max.	28T					
Min.	28T					
Max.	14T					
Min.	11T					
link bushings	-					
G pulley bearing	-					
T pulley bearing	-					
Teeth	11T/13T					
Bolts material	Steel					
Sunken type pulley bolt	-					
Material	-					
Finish	-					
Hollow axle	-					
Material	Steel					
Finish	MnPO4					
Hollow axle	-					
Material	-					
Finish						
Material	Resin					
Finish	-					
Material	Steel					
Finish	Plated					
Material	Resin					
Finish	-					
Material	Steel					
Finish	Painted					
Material	Steel					
Finish	Zinc plated					
Material	Steel					
Material Finish	Steel Painted					
Finish	Painted					
	shimano shadow RD shimano shadow RD shimano shadow RD shimano shadow RD shimano shiman					



ST

BR

BR

ВС

RD

FD

FC

ВВ

НВ

FH

WH

WH

## Front Derailleur

Sei	ries		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Mode	el no.		FD-R9100-F	FD-R9100-B	FD-9000-F	FD-9000-B	FD-R8000-F	FD-R8000-B
		1	Series color					
Color	-	2	-	-	-	-	-	-
	Fro	ont	2	2	2	2	2	2
Speeds	Re	ar	11	11	11	11	11	11
Compati	ble chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11
	TOP S	WING	-	-	-	-	-	-
Action	Down	Swing	1	1	1	1	1	1
	Clamp	28.6	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)
Mount	Band (mm)	31.8	-	1	-	1	-	1
		34.9	-	1	-	1	-	1
	Braze	ed-On	1	-	1		1	-
Cable	adjust	_	✓	✓	-	-	1	<b>✓</b> ✓
Top-Pull excl	lusive optio	n	-	-	-	-		-
Chain line (mm)		43.5	43.5	43.5	43.5	43.5	43.5	
Chain stay	angle (deg.)	)	61 - 66	61 - 66	61 - 66	61 - 66	61 - 66	61 - 66
Top gear teeth			50-55T	50-55T	50-55T	50-55T	46-53T	46-53T
Total c	apacity		16T	16T	16T	16T	16T	16T
Applicable Top-Mi	d tooth diff	erence	-	-	-	-	-	-
Angled clamp	band desig	gn	-	-	-	-	-	-
Multi-bearing	g construction	on	2	2	-		-	-
Link bu	ushings		8	8	7	7	8	8
Front clamp band	Mat	erial	-	Aluminum	-	Aluminum	-	Aluminum
	Fin	ish	-	Painted	-	Anodized	-	Painted
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Anodized	Anodized	Painted	Painted
Outer link	Mat	erial	CFRF	CFRF	Aluminum	Aluminum	GFRP	GFRP
	Fin	ish	Plated/Painted	Plated/Painted	Anodized	Anodized	Painted	Painted
Inner link	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin	ish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Chain guide	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
<b> </b>	Fin	ish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Chrome plated	Chrome plated
Cable fixing bolt	Mat	erial	Stainless steel					
	Fin	ish		-	-	-	-	-
Stroke adjusting screw	Mat	erial	Steel	Steel	Aluminum	Aluminum	Stainless steel	Stainless steel
		ish	Black	Black	Anodized	Anodized	Black	Black
Average weight (g Direct typ		e: L size,	70	85	66	78	92	106
Note								

## Front Derailleur

Ser	ies		SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105
Mode	el no.		FD-6800-F	FD-6800-B	FD-R7000-F	FD-R7000-B	FD-5700-F	FD-5703-F
Colon		1	Series color	Series color	Silky black	Silky black	Black	Black
Color	Color 2		-	-	Spark silver	Spark silver	Silver	Silver
S d.	Fro	ont	2	2	2	2	2	3
Speeds	Re	ear	11	11	11	11	10	10
Compatil	ole chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG 10-speed	HG 10-speed
Antina	TOP S	WING	-	-	-	-	-	-
Action	Down	Swing	✓	1	✓	✓	1	✓
	Clamp	28.6	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-	-
Mount	Band (mm)	31.8	-	1	-	<b>4</b>	-	-
		34.9	-	1	-	1	-	-
	Braze	ed-On	1	-	1	-	1	1
Cable	adjust		-	-	1	1	-	-
Top-Pull excl	usive optio	n	-	-	-	-		-
Chain lir	Chain line (mm)		43.5	43.5	43.5	43.5	43.5	45
Chain stay a	angle (deg.)	)	61 - 66	61 - 66	61 - 66	61 - 66	61 - 66	63 - 66
Top gea	Top gear teeth		46-53T	46-53T	46-53T	46-53T	50-56T	50T
Total ca	apacity		16T	16T	16T	16T	16T	20T
Applicable Top-Mi	d tooth diff	ference	-	-	-	-	-	11T
Angled clamp	band desi	gn	-	-		1	-	-
Multi-bearing	construction	on	-	-	-	-	-	-
Link bu	ıshings		7	7	7	7	-	-
	Mat	erial	-	Aluminum	-	Aluminum	-	-
Front clamp band	Fin	ish	-	Painted	-	Painted	-	-
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Outon liels	Mat	erial	Aluminum	Aluminum	GFRP	GFRP	Aluminum	Aluminum
Outer link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Mat	erial	Aluminum	Aluminum	Steel	Steel	Aluminum	Aluminum
mner link	Fin	ish	Painted	Painted	Plated	Plated	Painted	Painted
Chain guide	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide	Fin	iish	Chrome plated	Chrome plated	Chrome Plated	Chrome Plated	Chrome plated	Chrome plated
Cable fixing bolt	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cable fixing boit	Fin	ish	_	-	-	-	-	-
Stroke adjusting screw	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
screw	Fin	ish	-	-	Black	Black	-	-
Average weight (g) Direct type	(Band type e: w/ bolt)	e: L size,	89	104	95	111	89	114
No	te				-	-		

## Front Derailleur

Ser	ries		SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO	SHIMANO
Mode	el no.		FD-4700-F	FD-4700-B	FD-4703-F	FD-4703-B	FD-CX70-F-T	FD-CX70-F-D
		1	Series color	Series color	Series color	Series color	Gray	Gray
Color	:	2	-	-	-	-	-	-
	Fre	ont	2	2	3	3	2	2
Speeds	Re	ear	10	10	10	10	10	10
Compatil	ble chain		HG-X chain/CN- HG500	HG-X chain/CN- HG500	HG-X chain/CN- HG500	HG-X chain/CN- HG500	HG 10-speed	HG 10-speed
Action	TOP S	WING	=	-	-	-	=	-
Action	Down	Swing	✓	1	1	1	✓	✓
		28.6	-	<b>√</b> *	-	<b>√</b> *	-	-
	Clamp Band (mm)	31.8	-	1	-	1	-	-
Mount	()	34.9	-	1	-	1	-	-
	Braze	ed-On	1	-	1	-		1
Cable	adjust		-	-	-		-	-
Top-Pull excl	usive optio	n	-	-	-	-	4	-
Chain li	ne (mm)		43.5	43.5	45	45	43.5	43.5
Chain stay a	angle (deg.)	)	61 - 66	61 - 66	63 - 66	63 - 66	63 - 66	63 - 66
Top gea	Top gear teeth		46-52T	46-52T	50T	50T	46-52T	46-52T
Total capacity			16T	16T	20T	20T	16T	16T
Applicable Top-Mi	Applicable Top-Mid tooth difference		-	-	11T	11T	-	-
Angled clamp	band desi	gn	-	-		-	-	-
Multi-bearing	constructi	on	-	-	-	-	-	-
Link bu	ıshings		-			-	7	7
Fuent dans band	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	-	-
Front clamp band	Fin	ish	Painted	Painted	Painted	Painted	-	-
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Outor limb	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
mner link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain avida	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide	Fin	ish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing bolt	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cable lixing boil	Fin	ish		-	-	-	-	-
Stroke adjusting	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
screw	Fin	ish	-	-	-	-	-	-
Average weight (g) Direct type	(Band type: e: w/ bolt)	e: L size,	-	-	-	-	92	87
No	ote			* 28.6 mm Clamp band: 31.8 mm w/ Adapter		* 28.6 mm Clamp band: 31.8 mm w/ Adapter		

T

SL

BL

BR

BR

BR

RD

FD

FC BB

ВВ

НВ

FH

## Front Derailleur

Ser	ies		SHIMANO SORA	SHIMANO SORA	SHIMANO SORA	SHIMANO SORA	SHIMANO	SHIMANO CLARIS
Mode	el no.		FD-R3000-F	FD-R3000-B	FD-R3030-F	FD-R3030-B	FD-R353-B	FD-R2000-F
Calan		1	Series color	Series color	Series color	Series color	Black	Series color
Color	Color		-	-	-	-	-	-
	Fro	ont	2	2	3	3	3	2
Speeds	Re	ear	9	9	9	9	9	8
Compatil	ole chain		-	-	-	-	HG 9-speed	HG 8-speed
Antino	TOP S	WING	-	-	-	-	-	-
Action	Down	Swing	1	1	1	1	1	1
		28.6	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-	-
Mount	Clamp Band (mm)	31.8	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	-	-
		34.9	-	1	-	1	J	-
	Braze	ed-On	1	-	1	-	-	1
Cable	adjust		-	-	-	-	-	-
Top-Pull excl	Top-Pull exclusive option		-	-	-	-		-
Chain line (mm)		43.5	43.5	45	45	45	43.5	
Chain stay angle (deg.)		61 - 66	61 - 66	63 - 66	63 - 66	63 - 66	61 - 66	
Top gea	r teeth		46-52T	46-52T	50T	50T	50T	46-52T
Total ca	Total capacity		16T	16T	20T	20T	20T	16T
Applicable Top-Mi	d tooth diff	ference	-	-	11T	11T	11T	-
Angled clamp band design		<b>√</b>	1	~	1	-	✓	
Multi-bearing	Multi-bearing construction		-	-	-	-	-	-
Link bu	ıshings		-	-	-	-	-	-
Front clamp band	Mat	erial	-	Aluminum	-	Aluminum	Aluminum	-
Front clamp band	Fin	ish	-	Painted	-	Painted	Painted	-
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer lills	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
miner min	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
and guide	Fin	ish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing bolt	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Same many bort	Fin	ish	Ni plated	Ni plated	Ni plated	Ni plated	Ni plated	Ni Plated
Stroke adjusting screw	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
screw	Fin	ish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g) Direct type	(Band type e: w/ bolt)	e: L size,	-	-	-	-	-	-
No	te						SHIMANO logo	

ST

## Front Derailleur

Sei	ries		SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO A050
Mode	el no.		FD-R2000-B	FD-R2030-F	FD-R2030-B	FD-A070-A	FD-A073	FD-A050
	ı	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	Color		-	-	-	-	-	-
		ont	2	3	3	2	3	2 (Friction)
Speeds	Re	ar	8	8	8	7	7	7
Compati			HG 8-speed	HG 8-speed	HG 8-speed	HG	HG	HG
	TOP S	WING	-	-	-	-	-	-
Action	Down		1	1	1	1	1	/
		28.6	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
Mount	Clamp Band (mm)	31.8	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	(w/ M size adapter)	1
		34.9	1	-	1	1	1	-
	Braze	ed-On		1		;	-	-
Cable	adjust		-	-	-	-	-	-
Top-Pull excl	usive optio	n	-	-	-	-		-
Chain line (mm)		43.5	45	45	43.5	45	43.5	
Chain stay angle (deg.)		61 - 66	63 - 66	63 - 66	61 - 66	63 - 66	61 - 66	
Top gear teeth		46-52T	50T	50T	50T	50T	53T	
Total capacity		16T	20T	20T	16T	20T	16T	
Applicable Top-Mid tooth difference		-	11T	11T	-	11T	16T	
Angled clamp band design		1	1		1	1	-	
Multi-bearing	construction	on	-		-	-	-	-
Link bu	ıshings		-	-		-	-	-
F	Mat	erial	Steel	-	Steel	Steel	Steel	Steel
Front clamp band	Fin	ish	Painted	-	Painted	Painted	Painted	Zinc plated
Rear clamp band.	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
Rear clamp band, base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Zinc plated
Out on Park	Mat	erial	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel+Resin
Outer link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Zinc plated
Inner link	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
inner link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Zinc plated
Chain guida	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide	Fin	ish	Chrome plated	Chrome plated	Chrome plated	Painted	Painted	Chrome plated
Cable fixing bolt	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Cable lixing boil	Fin	ish	Ni Plated	Ni Plated	Ni Plated	Ni plated	Ni plated	Zinc plated
Stroke adjusting screw	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
screw	Fin	ish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g Direct typ	(Band type e: w/ bolt)	e: L size,	-	-	-	-	-	-
No	ote							

SL

BR

ВК

BR

ВС

BR

RD

FC FC

ВВ

CS HB

FH

WH

## Crankset

Ser	ies	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO 105
Mode	el no.	FC-R9100	FC-R9100-P	FC-R9100-P w/o gears	FC-9000	FC-R8000	FC-R7000
Color	1	Series color	Series color	Series color	Series color	Series color	Silky black
	. 2	-	-	-	-	-	Spark silver
Rear s Compatik		HG-EV 11-speed, HG- X11	HG-EV 11-speed, HG- X11	HG-EV 11-speed, HG- X11	HG-EV 11-speed, HG- X11	HG-EV 11-speed, HG- X11	HG-EV 11-speed, HG- X11
Chain lir	ne (mm)	43.5	43.5	43.5	43.5	43.5	43.5
P.C.D. Left /		110	110	110	110	110	110
Spider/G	_	4	4	4	4	4	4
Chainring co	ombination	55-42T 54-42T 53-39T 52-36T 50-34T	55-42T (option) 54-42T (option) 53-39T 52-36T 50-34T	-	55-42T 54-42T 53-39T 52-38T 52-36T 50-34T	50-34T 52-36T 53-39T 46-36T	50-34T 52-36T 53-39T
Q-fa	ctor	146	146	146	146	146	146
	160	-	-	-	-	-	✓
	165	✓	-	1	<b>√</b>	1	✓
[	167.5	1	-	1	1		-
Crank arm length	170	1	1	1	1	1	1
(mm)	172.5	1	1	1	1	1	<b>√</b>
	175	1	1	1	1	J	1
	177.5	1	-	1	<b>V</b>		-
	180	✓	-	1	1	-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain guard	1	1	1	1	<b>√</b>	<b>√</b>
HOLLOW		<b>√</b>	1	1	1	1	✓
2-PIECE CI		-	-	-	·	-	-
HOLLOWTEC		-	1	7	7	1	1
ОСТА	OCTALINK		-	-	-	-	-
HOLLOWGLIDE		1	1		1	<b>√</b> - (46-36T)	-
	Outboard	✓	1	1	1	1	✓
Compatible bottom bracket type	OCTALINK	-	-		-	-	-
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Square	-	-	-	-	-	-
Recommended	Threaded (normal)	BB-R9100	BB-R9100	BB-R9100	BB-R9100	SM-BBR60	SM-BBR60
bottom bracket	Press-fit	SM-BB92-41B	SM-BB92-41B	SM-BB92-41B	SM-BB92-41B	SM-BB72-41B	SM-BB72-41B
Axle length of BB- UN/ES (mm)	Threaded (normal)	-	-	-	-	-	-
Threaded bottom	68	1	1	1	1	1	1
bracket shell width (mm)	70	1	1	1	1	1	1
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank arm	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Crank axle	Finish	Plated	Plated	Plated	Plated	Plated	Plated
	Material	-		-	-	-	-
Spider arm	Finish		-	-	-	-	-
Cuida	Material	-	-	-	-	-	-
Spider arm cover	Finish		-	-	-	-	-
Outer ring	Material	Aluminum/CFRP	Aluminum/CFRP	Aluminum/CFRP	Aluminum/CFRP or GFRP	Aluminum/CFRP or Aluminum (46-36T only)	Aluminum/GFRP
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material		-	-	-	-	-
	Finish		-	-	-	-	-
Inner ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
-	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Stainless steel
ing boilt	Finis <mark>h</mark>	Anodized -	Anodized -	Anodized	Anodized -	Anodized -	-
Inner ring fixing bolt	Materi <mark>al</mark> Finish	-	-	-	-	-	-
Crank fixing I		1	1	1	1	1	1
Average weight (g) (1	170 mm, w/o bottom	650 (55-42T) 642 (54-42T) 626 (53-39T) 624 (52-36T) 614 (50-34T)	696 (53-39T) 695 (52-36T) 685 (50-34T)	-	639 (55-42T) 632 (54-42T) 618 (53-39T) 622 (52-38T) 618 (52-36T) 610 (50-34T)	690 (53-39T) 681 (52-36T) 674 (50-34T) 668 (46-36T)	713.4 (50-34T) 742.6 (52-36T) 757.8 (53-39T)
No	te		With power meter Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh	With power meter Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh		-	-

### Crankset

Series		SHIMANO	DURA-ACE	SHIMANO 105	SHIMANO 105	SHIMANO	SHIMANO TIAGRA
Mode	Model no.		FC-7710	FC-5750	FC-5703	FC-CX50	FC-4700
Color	1	Black	Series color	Black	Black	Silver	Series color
Color	2	-	-	-	-	Black	-
Rear s	peeds	11	-	10	10	10	10
Compatil	ole chain	HG-EV 11-speed, HG- X11	1/2 inch x 1/8 inch 1/2 inch x 3/32 inch	HG 10-speed	HG 10-speed	HG 10-speed	HG-X 10-speed
Chain lir	ne (mm)	43.5	42.5	43.5	45	43.5	43.5
P.C.D. Left /	Right (mm)	110	144	110	130/74	110	110
Spider/G	ear arms	4	5	5	5	5	4
Chainring co	ombination	52-36T 50-34T 46-36T	45T to 55T (1/2 inch x 1/8 inch, 1/2 inch x 3/ 32 inch)	50-34T	50-39-30T	46-36T	52-36T 50-34T 48-34T
Q-fa	ctor	150	136.3	146	154.76	150	150
	160	-	-	-	-	-	-
	165	1	1	1	1	-	1
	167.5	-	1	-	-	-	-
Cuanti auna lammah	170	1	1	1	1	1	1
Crank arm length (mm)	172.5	7	1	1	1	1	1
ł	175	7	1	1	1	•	1
}	177.5	_	-	-			-
}	180	-	-	-		-	-
	With chain guard	-		-			
Optional chain guard			-		-		-
	Without chain guard	✓	1	1	V		1
HOLLOV		-	-	1	1	-	-
2-PIECE C		1	-		-	7	1
HOLLOWTEC	H crank arm	-	1	1	1	-	-
ОСТА	LINK	-	✓			-	-
HOLLOV	VGLIDE	-	-	-	-	-	-
	Outboard	1	-	1	1	1	1
Compatible bottom bracket type	OCTALINK	-	✓	-	-	-	-
Diameter type	Square	-	-	- 1	-	-	-
Recommended	Threaded (normal)	BB-RS500	BB-7710, BB-7700	SM-BB5700	SM-BB5700	BB-RS500	BB-RS500
bottom bracket	Press-fit	BB-RS500-PB		SM-BB71-41B	SM-BB71-41B	SM-BB71-41B	BB-RS500-PB
Axle length of BB- UN/ES (mm)	Threaded (normal)	-	109.5	-	-	-	-
Threaded bottom	68	1	1	1	1	✓	1
bracket shell width (mm)	70	1	1	1	1	1	1
` ,	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank arm	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Steel	-	Steel	Steel	Steel	Steel
Crank axle	Finish	Plated	-	Plated	Plated	Plated	Plated
	Material	- riateu	-	- riateu	-	-	-
Spider arm	Finish		-	-	-	-	-
					-		-
Spider arm cover	Material			-	-	-	-
	Finish  Material	- Aluminum/Resin	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum/GFRP (52-36T, 50-34T) Aluminum/Resin (48-34T)
Outer ring	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized (52-36T, 50-34T) Anodized and Painted (48-34T)
Middle ring	Material	-	-	-	Aluminum	-	-
who are thing	Finish		-	-	Anodized	<u> </u>	-
Inner ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
milei ring	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Outer/middle ring	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Outer/middle ring fixing bolt	Finish	-	-	-	-	-	-
	Material	-	-	-	Stainless steel	-	-
nner ring fixing bolt	Finish	-	-	-	-	-	-
		1	1	1	1	1	1
Crank fixing	Crank fixing bolt included			<b>v</b>		<b>V</b>	
Crank fixing l Average weight (g) ( brac		908 (50-34T)	566 (52T, 1/2 inch x 1/	716	831	798	-

ST

ST

BL

BL BR

BR

BR BR

BR

ВС

RD FD

FC

BB BB

НВ

CS

FH

WH

НР

155

## Crankset

Ser	ies	SHIMANO TIAGRA	SHIMANO	SHIMANO	SHIMANO SORA	SHIMANO SORA	SHIMANO SORA
Mode	el no.	FC-4703	FC-R460	FC-RS400	FC-R3030	FC-R3030-CG	FC-R3000
Color	1	Series color	Black	Black	Series color	Series color	Series color
Color	2	-	-	-	·	-	-
Rear s	peeds	10	10	10	9	9	9
Compatik	ole chain	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed
Chain lir	ne (mm)	45	43.5	43.5	45	45	43.5
P.C.D. Left /	Right (mm)	110/74	110	110	110/74	130/74	110
Spider/G	ear arms	4	5	5	4	5	4
Chainring co		50-39-30T	48-34T 46-34T	50-34T	50-39-30T	50-39-30T	50-34T
Q-fa		158.8	149.9	150.3	158.8	158.8	150
	160	-	-	-	-	-	-
	165	1	✓	-	✓	1	1
	167.5	-	-	-	-	-	-
Crank arm length	170	<b>√</b>	1	1	✓	1	1
(mm)	172.5	1	-	-	-	-	-
	175	1	✓	<b>√</b>	1	1	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	1	-
,	Without chain guard	✓	1	1	1	-	1
HOLLOW		-	-	-	-		-
2-PIECE CI		<b>√</b>	1	1	1	1	1
	HOLLOWTECH crank arm		-	-	-		-
OCTALINK		-	-	-		- '	-
HOLLOV		-	-			-	-
Compatible bottom	Outboard	✓	1	1	1	J	✓
bracket type	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-RS500	BB-RS500	BB-RS500	BB-RS500	BB-RS500	BB-RS500
Axle length of BB- UN/ES (mm)	Press-fit Threaded (normal)	BB-RS500-PB	SM-BB71-41B	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB
Threaded bottom	68	1	1		1	1	1
bracket shell width		<b>√</b>		1	1	1	1
(mm)	70	-	-		-	-	•
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish Material	Anodized Steel	Painted Steel	Painted -	Painted	Painted	Painted Steel
Crank axle	Finish	Plated	Plated	-	Steel Plated	Steel Plated	Plated
	Material	Flateu	- Indied			- Flateu	
Spider arm	Finish	-	-	-	-	_	
	Material			_		_	_
Spider arm cover	Finish			_	_	_	_
	Material	Aluminum/GFRP	Aluminum	Aluminum	Aluminum/Resin	Aluminum/Resin	Aluminum/Resin
Outer ring	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Aluminum	-	-	Steel	Steel	-
Middle ring	Finish	Anodized	-	-	Painted	Painted	-
	Material	Steel	Aluminum	Aluminum	Steel	Steel	Steel
Inner ring	Finish	Plated	Anodized	Anodized	Painted	Painted	Painted
Outer/middle ring	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Outer/middle ring fixing bolt	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material Finish	Stainless steel	-	-	Stainless steel	Stainless steel	Stainless steel
Crank fixing l		1	-	-	-	-	- 1
Average weight (g) (1		-	-	-	-	-	-
No			SHIMANO logo			w/ Chain guard spec.	
NO			Jiminato logo			Chair guara spec.	

ST

## Crankset

Ser	ies	SHIMANO SORA	SHIMANO	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS
Mode	el no.	FC-R3000-CG	FC-R345	FC-R2030	FC-R2030-CG	FC-R2000	FC-R2000-CG
	1	Series color	Silver	Series color	Series color	Series color	Series color
Color	2	-	Black	-	-	-	-
Rear s	peeds	9	9	8	8	8	8
Compatil	ble chain	HG 9-speed	HG 9-speed	HG 8-speed	HG 8-speed	HG 8-speed	HG 8-speed
Chain lin	ne (mm)	43.5	43.5	45	45	43.5	43.5
P.C.D. Left /	Right (mm)	110	110	110/74	110/74	110	110
Spider/G	ear arms	5	5	4	4	4	4
Chainring c	ombination	50-34T	50-34T	50-39-30T	50-39-30T	50-34T	50-34T
Q-fa	ctor	150	152.2	158.8	158.8	150	150
	160	-	-	-	-	-	-
	165	1	-	1	1	1	1
	167.5	-	-	-	-	-	-
Crank arm length	170	1	1	1	1	1	1
(mm)	172.5	-	-	-	-	-	-
	175	1	1	1	1	1	1
	177.5	-	-	-	-	-	-
	180	_	_	_	-	_	_
	With chain guard	1	1	_	1		1
Optional chain guard	Without chain guard	-	1	1	-	1	-
HOLLOV		-	-	-	-	-	-
		1		1	7		<b>√</b>
2-PIECE CRANKSET  HOLLOWTECH crank arm			-	-			
		-	-	-	-	-	-
OCTALINK HOLLOWGLIDE		-	1	-		-	-
HOLLO		-	-	-	-	-	-
Compatible bottom	Outboard	1	-	1		1	1
bracket type	OCTALINK	-	1	-	•	-	-
	Square	-	-	-	-	-	-
Recommended	Threaded (normal)	BB-RS500	BB-ES300	BB-RS500	BB-RS500	BB-RS500	BB-RS500
bottom bracket	Press-fit	BB-RS500-PB	-	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB
Axle length of BB- UN/ES (mm)	Threaded (normal)	-	113	-	-	-	-
Threaded bottom	68	✓		<b>√</b>	1	✓	1
bracket shell width (mm)	70	✓	1	1	1	✓	✓
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank arm	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	-	Steel	Steel	Steel	Steel
Crank axle	Finish	Plated	-	Plated	Plated	Plated	Plated
	Material	-	-	-	-	-	-
Spider arm	Finish	-	-	-	-	-	-
	Material	-	-	-	-	-	-
Spider arm cover	Finish	-	-	-	-	-	-
	Material	Aluminum/Resin	Aluminum	Steel/Resin	Steel/Resin	Steel/Resin	Steel/Resin
Outer ring	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
	Material	-	-	Steel	Steel	-	-
Middle ring	Finish	-	-	Painted	Painted	-	-
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Inner ring	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outor/middle :::	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Outer/middle ring fixing bolt	Finish	-	-	-	-	-	-
-	Material	Stainless steel	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel
nner ring fixing bolt	Finish	- Starriess steer	-	-	-	-	-
Crank fixing		1	-	- ·	-	-	-
		-					7
Average weight (g) (170 mm, w/o bottom bracket)		-	-	_	-	-	-
brac	ket)	1					

BL BL

BR

BR

BR BC

RD

FC FC

BB BB

НВ

FH

WH

### Crankset

Optional chain guard Wi	1 2 eds chain (mm) ght (mm) r arms sibination or 160 165 167.5 170 172.5 175 177.5 180 With chain guard	FC-RS200  Black  - 8  HG 8-speed  43.5  110  5  50-34T  46-34T  153.7  -  -  -  -  -  -  -  -  -  -  -  -  -	FC-A070  Series color  - 7/8  HG  43.5  Riveted  5  50-34T  169	FC-A073  Series color  - 7/8  HG  45  Riveted  5  50-39-30T  171.5
Rear spee Compatible Chain line ( P.C.D. Left / Rig Spider/Gear Chainring coml Q-facto  Crank arm length (mm)  Optional chain guard Will HOLLOWTE	2 eds chain (mm) ght (mm) r arms abination or 160 165 167.5 170 172.5 175 177.5 180 With chain guard	- 8 HG 8-speed 43.5 110 5 50-34T 46-34T 153.7	- 7/8 HG 43.5 Riveted 5 50-34T 169	- 7/8 HG 45 Riveted 5 50-39-30T 171.5
Rear spee Compatible Chain line ( P.C.D. Left / Rig Spider/Gear Chainring coml Q-facto  Crank arm length (mm)  Optional chain guard Will HOLLOWTE	eds chain (mm) ght (mm) r arms abination or 160 165 167.5 170 172.5 175 177.5 180 With chain guard	8 HG 8-speed 43.5 110 5 50-34T 46-34T 153.7	HG 43.5 Riveted 5 50-34T 169	HG 45 Riveted 5 50-39-30T 171.5
Compatible Chain line ( P.C.D. Left / Rig Spider/Gear Chainring coml Q-factor  Crank arm length (mm)  Optional chain guard W Wi HOLLOWTE	chain (mm) ght (mm) r arms abination or 160 165 167.5 170 172.5 175 177.5 180 With chain guard	HG 8-speed  43.5  110  5  50-34T  46-34T  153.7  -  -  -  -  -  -  -  -  -  -  -  -	HG 43.5 Riveted 5 50-34T 169	HG 45 Riveted 5 50-39-30T 171.5
Chain line ( P.C.D. Left / Rig Spider/Gear Chainring coml Q-facto  Crank arm length (mm)  Optional chain guard William	(mm) ght (mm) r arms abination or 160 165 167.5 170 172.5 175 177.5 180 With chain guard	43.5 110 5 50-34T 46-34T 153.7	43.5 Riveted 5 50-34T 169	45 Riveted 5 50-39-30T 171.5
P.C.D. Left / Rig Spider/Gear Chainring coml Q-facto  Crank arm length (mm)  Optional chain guard With	ght (mm) r arms sibination or 160 165 167.5 170 172.5 175 177.5 180 With chain guard	110 5 50-34T 46-34T 153.7	Riveted 5 50-34T 169	Riveted 5 50-39-30T 171.5
Spider/Gear Chainring coml Q-facto  Crank arm length (mm)  Optional chain guard With	r arms abination  r 160 165 167.5 170 172.5 175 177.5 180 With chain guard	5 50-34T 46-34T 153.7	5 50-34T 169	5 50-39-30T 171.5
Crank arm length (mm)  Optional chain guard William (Modern Policy Control of the	160 160 165 167.5 170 172.5 175 177.5 180 With chain guard	50-34T 46-34T 153.7 - - - - - -	50-34T 169	50-39-30T  171.5  -  -  -  -  -  -  -  -  -
Q-factor Q-factor Crank arm length (mm)  Optional chain guard With	160 165 167.5 170 172.5 175 177.5 180 With chain guard	46-34T 153.7 - - - - - - - -	169	171.5
Crank arm length (mm)  Optional chain guard W	160 165 167.5 170 172.5 175 177.5 180 With chain guard	- / / - / / - / / - / / - / / - / / - / / - / / - / / / - / / / / - /	- - - - -	- - - - -
Optional chain guard With	165 167.5 170 172.5 175 177.5 180 With chain guard	/ - - - - -	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Optional chain guard With	167.5 170 172.5 175 177.5 180 With chain guard	-	- · · · · · · · · · · · · · · · · · · ·	- - - - -
Optional chain guard With	170 172.5 175 177.5 180 With chain guard /ithout chain guard		- - -	- - -
Optional chain guard With	172.5 175 177.5 180 With chain guard	- - - -	-	- - -
Optional chain guard With HOLLOWTE	175 177.5 180 With chain guard /ithout chain guard	- -	-	-
Optional chain guard Wi HOLLOWTE	177.5 180 With chain guard /ithout chain guard	-	-	-
Optional chain guard Wi HOLLOWTE	180 With chain guard /ithout chain guard	-		
Optional chain guard Wi HOLLOWTE	With chain guard ithout chain guard		-	
Optional chain guard Wi HOLLOWTE	ithout chain guard	✓		-
HOLLOWTE			1	✓
		✓	1	1
	HOLLOWTECH II		-	-
2-PIECE CRAN		-	-	-
HOLLOWTECH c	crank arm	-	-	-
OCTALIN		-	-	-
HOLLOWGI	HOLLOWGLIDE		-	-
Commodible bessess	Outboard	-	-	-
Compatible bottom bracket type	OCTALINK	-	-	-
	Square	✓	1	1
	hreaded (normal)	BB-UN300	BB-UN300	BB-UN300
bottom bracket	Press-fit	-	-	
ON/E3 (IIIII)	Threaded (normal)	MM110	MM110	LL113
Threaded bottom bracket shell width	68	<b>√</b>	1	1
(mm)	70	✓	1	1
Crank arm	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Crank axle	Material	-	-	-
	Finish	-	-	
Spider arm	Material	-	-	-
·	Finish	-	-	-
Spider arm cover	Material		•	-
	Finish	- Charle	- Charles	- Ct I
Outer ring	Material	Steel	Steel	Steel
-	Finish	Painted	Painted	Painted
Middle ring	Material		-	Steel
	Finish Material	- Ctool	- Stool	Painted
Inner ring		Steel	Steel	Steel
	Finish	Painted Stainless steel	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	-	-
iixiiig Soit	Finish	•	-	-
Inner ring fixing bolt	Material		-	-
Cupyle States at 1	Finish		-	-
Crank fixing bolt		1	-	-
Average weight (g) (170 bracket	mm, w/o bottom   t)	-	-	-
Note				

## **Bottom Bracket (HOLLOWTECH II)**

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	BB-R9100	SM-BB92-41	SM-BB72-41	SM-BBR60	BB-RS500	BB-RS500-P
HOLLOWTECH II bottom bracket	Threaded bottom bracket type	1	-	-	1	1	-
bottom bracket	Press-Fit type	-	1	1	-	-	✓
Threaded bottom bracket shell width (mm)	68	1	-	-	✓	1	-
	70	1	-	-	1	✓	-
Press-Fit bottom bracket shell width (mm)	86.5	-	✓ (SM-BB92-41B)	✓ (SM-BB72-41B)	-	-	✓ (BB-RS500-PB)
Small bal	l bearing	1	1	1	✓	-	-
A damas u	Material	Aluminum	Resin	Resin	Aluminum	Aluminum	Resin
Adapter	Finish	Anodized	-	-	Anodized	Anodized	-
Average v	weight (g)	65	54	69	77	92	71
No	ote						

### **Bottom Bracket**

Se	ries		DURA-ACE	DURA-ACE	SHIMANO 105	SHIMANO
Mod	el no.		BB-7700	BB-7710	BB-5500	BB-ES51
	Hollo	w pipe	1	1		1
Spindle	ОСТА	ALINK	1	1	1	1
	Squar	e type	-	-		-
Axle length/shell width (mm)	109.5	68 (BC1.37)	1	1	✓ (for double)	-
	109.5	70 (M36)	1		✓ (for double)	-
	MM110.	68 (BC1.37)	-	-	-	-
	0	70 (M36)		-	-	-
	11112.0	68 (BC1.37)			-	-
	LL113.0	70 (M36)	7/	-	-	-
	113	68 (BC1.37)		-	-	✓ (for double)
		70 (M36)		-	-	✓ (for double)
	118.5	68 (BC1.37)		-	✓ (for triple)	-
	110.5	70 (M36)	-	-	√ (for triple)	-
	121	68 (BC1.37)	-	-	-	✓ (for triple)
Spindle	Mat	terial	Steel	Steel	Steel	Steel
	Fir	nish	Plated	Plated	Plated	Plated
Left hand adapter	Mat	terial	Aluminum	Aluminum	Aluminum	Resin
Leit Hand adapter	Fir	nish	Anodized	Anodized	Anodized	-
Average	weight (g)		173	244	-	-
Ne	Note		-	For track	-	-

ST

ST

SL

BL

RR

DD

FD

.

вв

.5

·IB

...

WH

WH

HP

## Cassette Sprocket

Sei	ries	DURA-ACE	SHIMANO ULTEGRA	SHIMANO	
Mode	el no.	CS-R9100	CS-R9100 CS-R8000		
Ту	pe	HG-EV	HG-EV	HG-EV	
Spe	eds	11	11	11	
Compati	ble chain	HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11	
Combination name (Group name)		11-25T 11-28T 11-30T 12-25T 12-28T	11-25T 11-28T 11-30T 12-25T 14-28T 11-32T	11-34T	
	Combination 1	11-12-13-14-15-16-17*-19*-21*-23*-25*T	11-12-13-14-15-16-17-19-21-23-25T	11-13-15-17-19-21-23-25-27-30-34T	
	Combination 2	11-12-13-14-15-17-19*-21*-23*-25*-28*T	11-12-13-14-15-17-19-21-23-25-28T	-	
Combination	Combination 3	11-12-13-14-15-17-19*-21*-24*-27*-30*T	11-12-13-14-15-17-19-21-24-27-30T	-	
* Titanium gear	Combination 4	12-13-14-15-16-17-18*-19*-21*-23*-25*T	12-13-14-15-16-17-18-19-21-23-25T	-	
" Illamum gear	Combination 5	12-13-14-15-16-17-19*-21*-23*-25*-28*T	14-15-16-17-18-19-20-21-23-25-28T	-	
	Combination 6	-	11-12-13-14-16-18-20-22-25-28-32T	-	
	Combination 7	-	-	-	
	QTY (pcs)	2	1	2	
Spider arm	Material	Carbon	Carbon/Aluminum	Aluminum	
	Finish	-	Anodized	Anodized	
Titanium gear	Finish	Titanium	-	-	
Aluminum gear	Finish	-	-	-	
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	
Lock ring	Material	Aluminum	Aluminum	Aluminum	
Lock filing	Finish	Anodized	Anodized	Anodized	
Average v	veight (g)	175 (11-25T) 193 (11-28T) 211 (11-30T) 189 (12-25T) 205 (12-28T)	232 (11-25T) 251 (11-28T) 269 (11-30T) 243 (12-25T) 300 (14-28T) 292 (11-32T)	335	
No	ote	* Titanium gear	-	-	

Ser	ries	SHIMANO 105	SHIMANO 105	SHIMANO ULTEGRA	
Mode	el no.	CS-R7000	CS-HG700-11	CS-6700	
Ту	pe	HG-EV	HG-EV	HG	
Spe	eds	11	11	10	
Compati	ble chain	HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11	HG 10-speed	
Combination nar	me (Group name)	11-28T 11-30T 11-32T 12-25T	11-34T	11-25T 11-28T 12-25T 12-30T	
	Combination 1	11-12-13 <mark>-14-</mark> 15-17-19-21-23-25-28T	11-13-15-17-19-21-23-25-27-30-34T	11-12-13-14-15-17-19-21-23-25T	
	Combination 2	11-12-13-14-15-17-19-21-24-27-30T	-	11-12-13-14-15-17-19-21-24-28T	
Combination	Combination 3	11-12-13-14-16-18-20-22-25-28-32T	-	12-13-14-15-16-17-19-21-23-25T	
* Titanium gear	Combination 4	12-13-14-15-16-17-18-19-21-23-25T	-	12-13-14-15-17-19-21-24-27-30T	
" I Italiiuiii gear	Combination 5	-	-	-	
	Combination 6	-	-	-	
	Combination 7	-	-	-	
	QTY (pcs)	1	1	1	
Spider arm	Material	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	
Titanium gear	Fini <mark>sh</mark>	-	-	-	
Aluminum gear	Finish	-	-	-	
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	
Lock ring	Material	Steel	Steel	Aluminum	
Lock Hilly	Finish	Nickel plated	Nickel plated	Anodized	
Average v	weight (g)	284 (11-28T) 304 (11-30T) 320 (11-32T) 269 (12-25T)	379	229 (11-25T) 242 (11-28T) 238 (11-25T) - (12-30T)	
No	ote	-	-	-	

## Cassette Sprocket

Ser	ries	SHIMANO 105	SHIMANO	SHIMANO SORA
Mode	el no.	CS-5700	CS-HG500-10	CS-HG50-9
Ту	pe	HG	HG	HG
Spe	eds	10	10	9
Compati	ble chain	HG 10-speed	HG-X 10-speed/HG 10-speed/CN-HG500	HG 9-speed
Combination name (Group name)		11-25T 11-28T	11-25T 12-28T 11-32T 11-34T	11-30T (bQ) 12-25T 13-25T 14-25T
	Combination 1	11-12-13-14-15-17-19-21-23-25T	11-12-13-14-15-17-19-21-23-25T	11-12-14-16-18-20-23-26-30T (bQ)
	Combination 2	11-12-13-14-15-17-19-21-24-28T	12-13-14-15-17-19-21-23-25-28T	12-13-14-15-17-19-21-23-25T
Combination	Combination 3	-	11-12-14-16-18-20-22-25-28-32T	13-14-15-16-17-19-21-23-25T
* Titanium gear	Combination 4	=	11-13-15-17-19-21-23-26-30-34T	14-15-16-17-18-19-21-23-25T
" Titanium gear	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
	QTY (pcs)	1	-	-
Spider arm	Material	Aluminum	-	-
	Finish	Anodized	-	-
Titanium gear	Finish	-	-	
Aluminum gear	Finish	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel	Steel
Lock fillig	Finish	Nickel plated	Nickel plated	Nickel plated
Average v	weight (g)	245 (11-25T) 255 (11-28T)	·	-
No	ote	-	-	-

Sei	ries	SHIMANO SORA	SHIMANO CLARIS	SHIMANO TOURNEY A070
Mode	el no.	CS-HG400-9	CS-HG50-8	CS-HG41-7
Ту	pe	HG	HG	HG
Spe	eds	9	8	7
Compati	ble chain	HG 9-speed	CN-HG71	IG/HG
Combination name (Group name)		11-25T (G)	11-28T (bf) 11-30T (an) 11-32T (aw) 11-34T (Ca) 12-23T (U) 12-25T (W) 13-26T (V)	11-28T (ac)
-	Combination 1	11-12-13-15-17-19-21-23-25T (G)	11-13-15-17-19-21-24-28T (bf)	11-13-15-18-21-24-28T (ac)
	Combination 2	-	11-13-15-17-20-23-26-30T (an)	-
Combination	Combination 3	-	11-13-15-18-21-24-28-32T (aw)	-
* Titanium gear	Combination 4	-	11-13-15-18-21-24-28-34T (Ca)	-
* Titanium gear	Combination 5	-	12-13-14-15-17-19-21-23T (U)	-
	Combination 6	-	12-13-15-17-19-21-23-25T (W)	-
	Combination 7	-	13-14-15-17-19-21-23-26T (V)	-
	QTY (pcs)	-	-	-
Spider arm	Material	-	-	-
	Finish	-	-	-
Titanium gear	Finish	-	-	-
Aluminum gear	Finish	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel	Steel
Lock filly	Finish	Nickel plated	Nickel plated	Phosphate coated
Average v	weight (g)	-	-	-
No	ote	NEW gear combination	-	-

SL

BL

BR

BR

BR

RD

FC

ВВ

cs

НВ

WH

## Cassette Sprocket

Se	ries	SHIMANO TOURNEY A070		
Mod	el no.	CS-HG20-7		
Ту	pe	HG		
Spe	eds	7		
Compati	ble chain	IG/HG		
Combination nar	me (Group name)	12-28T (E)		
	Combination 1	12-14-16-18-21-24-28T (E)		
	Combination 2	-		
Combination	Combination 3	-		
* Titanium gear	Combination 4	-		
* I itanium gear	Combination 5	-		
	Combination 6	-		
	Combination 7	-		
	QTY (pcs)	-		
Spider arm	Material	-		
	Finish	-		
Titanium gear	Finish	-		
Aluminum gear	Finish	-		
Steel gear	Finish	Brown&Black		
Lock ring	Material	Steel		
Lock ring	Finish	Phosphate coated		
Average v	weight (g)	-		
No	ote	-		



## Front Hub (Rim/Disc Brake)

Ser	ries	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO 105	SHIMANO 105
Mode	el no.	HB-9000	HB-7710	HB-7600	HB-6800	HB-R7000	HB-R7070
	1 Hub Shell	Series color	Silver	Silver	Series color	Silky black	Silky black
	1 Quick release	Series color	Silver	Silver	Series color	Black	-
Color	2 Hub Shell	-	-	-	-	Spark silver	-
	2 Quick release	-	-	-	-	Black	-
Brake	type	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	CENTER LOCK disc brake
O.L.D.	(mm)	100	100 (Front), 120 (Rear)	100 (Front), 120 (Rear)	100	100	100
	24H	✓	-	-	-	-	-
Spoke hole	28H	1	✓	✓	-	-	-
Spoke Hole	32H	1	✓	✓	✓	✓	✓
	36H	1	✓	✓	✓	✓	✓
Axle fixin	g method	Quick release	Nut	Nut	Quick release	Quick release	12 mm E-THRU
Quick release	129 mm	-	-	-	-	-	-
skewer length	133 mm	1	-	-	1	1	-
	100 x 8	-	-	-	-	-	-
Thru Axle (Length x	100 x 12	-	-	-	-	-	<b>1</b>
Inner diameter ; mm)	100 x 15	-	-	-	-	-	-
	110 x 20	-	-	-	-	-	-
Flange dist	ance (mm)	74.0	74.0 (Front) 72.5 (Single Thread, Rear) 67.0 (Double Thread, Rear)	72.3 (Front) 75.5 (Single Thread, Rear) 65.0 (Double Thread, Rear)	71.6	71.6	59.6
Offset (mm)		0	0 (Front) 2.75 (Single Thread, Rear) 0 (Double Thread, Rear)	0(Front) 5.25(Rear)	0	0	6
P.C.D. Left/	Right (mm)	38	38 (Front), 44 (Rear)	67	40	38	44
Flange diameter	Left/Right (mm)	48.4	46 (Front), 52 (Rear)	75	50.4	48.4	52.8
Se	al	Labyrinth & Contact	Dust Cap	Dust Cap	Labyrinth & Contact	Contact	Contact
Internal gro	ease sleeve	1	·	-	J	1	✓
Digital adjust	ment system	1	-	-	J	-	-
	Stainless ball	1	1	1	-	-	-
Bearing	Cup	Super Finishing **	Polish	CBN, Polish	Polish	Polish	Polish
	Cone	CBN, Polish	CBN, Polish	CBN, Polish	CBN, Polish	CBN, Polish	CBN, Polish
	CENTER LOCK	-	-	-	-	-	1
	External serration disc brake rotor lock ring		-	-	-	-	-
Disc mount	CENTER LOCK mount cover option	-		-	-	-	-
	6-bolt	• -	-	-	-	-	-
	140 mm disc brake rotor compatible		-	=	-	-	<b>*</b>
11.4.4.11	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Aluminum	Steel	Steel	Aluminum	Steel	Aluminum
Axle	Finish	Anodized	Plating	Plating	Anodized	-	Anodized
Outstand 1	Material	Aluminum	-	-	Aluminum	Aluminum	-
Quick release lever	Finish	Anodized	-	-	Anodized	Anodized	-
Quick release	Material	Anodized	-	-	Aluminum	Aluminum	-
housing	Finish	Silver	-	-	Anodized	Anodized	-
	Material	Anodized	-	-	Resin	Resin	-
Quick release nut	Finish	Silver	-	-	Black	Black	-
Radial	lacing	1	-	-	1	1	-
Average weight (g)	(w/o axle and lock g)	120	298 (rear w/ lock rin), 203 (front)	313 (rear LF w/ lock rin) 241 (front LF)	158	155	165
No	ote	* Aero spoke hole available(18H/24H) ** Super Finishing	For Track * Dishing Distance R (Single Thread): 2.75 mm / (Double Thread): 0			-	-

ST

Т

L

BL

BR

BR

\_\_

D.C.

RD

FC

RR

cs

НВ

WH

FH

## Front Hub (Rim/Disc Brake)

Ser	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO TOURNEY A070
Mode	el no.	HB-RS770	HB-RS400	HB-RS470	HB-RS300	HB-RM40
	1 Hub Shell	Black/Silver	Black	Black	Silver	Black
	1 Quick release	-	Black	-	Silver	Black
Color	2 Hub Shell	-	Silver	-	Black	Silver
	2 Quick release	-	Black	-	Black	Black
Brake	type	CENTER LOCK disc brake	Rim brake	CENTER LOCK disc brake	Rim brake	Rim brake
O.L.D.	O.L.D. (mm)		100	100	100	100
24H		-	-	-	-	-
	28H	1	1	1	1	-
Spoke hole	32H	1	1	1	1	1
	36H	1	1	-	1	1
Axle fixin	g method	12 mm E-THRU	Quick release	12 mm E-THRU	Quick release	Quick release
	129 mm	-	-	-	1	1
Quick release skewer length	133 mm	-	1	_	1	1
	100 x 8	<u>-</u>	-	-	-	<u> </u>
Thru Axle (Lenath v	100 x 12	1		1		
Thru Axle (Length x Inner diameter ; mm)	100 x 12	-	-	-		-
,	110 x 20			-		
Flance dist		59.6	71.6	59.6	71.6	71.6
Flange distance (mm)						
Offset (mm)		6	0	6.3	0	0
P.C.D. Left/	-	44 52.8	38	44	38	38
_	Flange diameter Left/Right (mm)		48.4	52.8	48.4	46
	eal	Labyrinth & Contact	Contact	Contact	Contact	-
Internal gr		-	1	1	·	-
Digital adjust	_	-	-		-	-
	Stainless ball	-	-	-	-	-
Bearing	Cup	CBN	Polish	Polish	-	-
	Cone	CBN	CBN	CBN, Polish	-	-
	CENTER LOCK	✓	-	1	-	-
	External serration disc brake rotor lock ring	-		-	-	-
Disc mount	CENTER LOCK mount cover option	-	-	-	-	-
	6-bolt	-		-	-	-
	140 mm disc brake rotor compatible	1	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
TIGO SHEH	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Steel	Aluminum	Steel	Steel
AVIE	Finish	Anodized	-	-	-	-
Quick release lever	Material		Aluminum	-	Aluminum	Steel
Quick lelease level	Finish	-	Painted	-	Painted	Plated
Quick release housing	Material	-	Aluminum	-	Steel	Steel
housing	Finish	-	Painted	-	Painted	Plated
Quick release nut	Material		Resin	-	Resin	Resin
Quick release nut	Finish	-	Black	-	Black	Black
Radial	Radial lacing		1	1	1	-
Average weight (g)	(w/o axle <mark>and lo</mark> ck ng)	125	-	-	-	-
No	ote	-		-		

## FREEHUB (Rim/Disc Brake)

Series		DURA-ACE	SHIMANO ULTEGRA	SHIMANO 105	SHIMANO 105	SHIMANO	SHIMANO
Mode	el no.	FH-9000	FH-6800	FH-R7000	FH-R7070	FH-RS770	FH-RS400
	1 Hub Shell	Series color	Series color	Silky black	Silky black	Black/Silver	Black
Color	1 Quick release	Series color	Series color	Black	Black	-	Black
Color	2 Hub Shell	-	-	Spark silver	-	-	Silver
	2 Quick release	-	=	Black	-	-	Black
Brake	type	Rim brake	Rim brake	Rim brake	CENTER LOCK disc brake	CENTER LOCK disc brake	Rim brake
Rear s	peeds	11/10*	11/10*	11/10*	11/10*	11/10*	11/10
O.L.D.		130	130	130	142	142	130
	24H	1	-	-	-	-	-
	28H	1	-	-	-	1	<b>√</b>
Spoke hole	32H	1	1	1	1	1	1
	36H	1	1	1	1	1	- ·
External serration	With	-	-	-	-	-	<u> </u>
disc brake rotor lock	-	<u>-</u>	<u> </u>	_		-	
ring	Without						
Internal serration disc brake rotor lock	With	-	-	-	-	-	-
ring	Without	-	-	-	1	1	-
CENTER LOCK mo	· · · · · · · · · · · · · · · · · · ·	-	-	-	1		-
Axle fixin	g method	Quick release	Quick release	Quick release	12mm E-THRU	12mm E-THRU	Quick release
	161 mm	-	-	-	-	-	-
	163 mm	✓	1	✓	-	-	1
Quick release skewer	166 mm	-	-	-	-	-	-
length	168 mm	1	1	1	-	-	1
İ	170 mm	-	-	-	-	-	-
	173 mm	-	-			-	-
	135 x 10	-	-	A		-	-
	135 x 12	-	-			-	-
Thru Axle (Length x	142 x 12	-	_		1	1	
nner diameter ; mm)	148 x 12	_	_		-	-	
}	150 x 12	_	-		-	-	
		56.9 **	56.9	56.9	55.7	55.7	56.9
Flange distance (mm)		9.75 **	9.7	9.75	7.45	7.5	9.75
Offset (mm) P.C.D. Left/Right (mm)			-		44/45		44/45
	•	44/45	44/45	44/45		44/45	
Flange diameter		52.8/53.8	52.8/53.8	52.8/53.8	52.8/53.8	52.8/53.8	52.8/53.8
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal gre		1	1	1	1	-	✓
Digital adjust	ment system	1	✓	-	-	-	-
	Stainless ball	1	-	-	-	-	-
Bearing	Cup	CBN	Polish	Polish	Polish	CBN	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
FREEHUB body	Material	Titanium	Steel	Steel	Steel	Steel	Steel
FREEHUB BODY	Finish	-	-	-	-	-	-
District of	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Aluminum	Aliminum	Steel	Steel	Aluminum	Steel
Axle	Finish	Anodized	Anodized	-	-	Anodized	-
	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
Quick release lever	Finish	Anodized	Anodized	Anodized	-	-	Painted
	Color	9000SLV	Black	Black	-	-	Black
Ouisk volume	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
Quick release housing	Finish	Anodized	Anodized	Anodized	-	-	Painted
	Material	Aluminum	Resin	Resin	-	-	Resin
Quick release nut	Finish	Anodized	Black	Black	-	-	Black
	Material	Anodized -	- DIACK	- Black	-	-	- DIACK
Disc breke rotor lock ring	Finish	-	-	-	-	-	-
		-			-		
Radial Lacing  Average weight (g)			-	-		-	-
Average weight (g) (w/o axle and lock ring)		247	330	368	361	302	-
(w/o axle and lock ring)  Note		* Can be used for 10-speed with an additional spacer ** Aero spoke hole available *** Flange Distance:56.5, Dish:9.95(only for 28H), **** Super Finishing.	* Can be used for 10-speed with an additional spacer	* Can be used for 10-speed with an additional spacer	* Can be used for 10-speed with an additional spacer.	* Can be used for 10-speed with an additional spacer. For disc brake/ CENTER LOCK mount	* Can be used for 10-speed with an additional spacer

нв

FΗ

WH

## FREEHUB (Rim/Disc Brake)

Ser	ies	SHIMANO	SHIMANO	SHIMANO TOURNEY A070	SHIMANO	SHIMANO
Mode	el no.	FH-RS470	FH-RS300	FH-RM30-7-QR	FH-TY500-7-QR	FH-TY500-7-NT
	1 Hub Shell	Black	Silver	Silver	Black	Black
Color	1 Quick release	-	Silver	Silver	-	-
Color	2 Hub Shell	-	Black	-	-	-
	2 Quick release	-	Black	-	-	-
Brake	type	CENTER LOCK disc brake	Rim brake	Rim brake	Rim brake	Rim brake
Rear s	peeds	11/10*	8/9/10	7	7	7
O.L.D.	(mm)	142	130	130	130	130
	24H	-	-	-	-	-
	28H	1	1	-	-	-
Spoke hole	32H	1	1	1	1	1
	36H	_	1	-	1	1
External serration	With	_	-	_	-	-
disc brake rotor lock	Without	-	_	_	1	1
ring					-	
Internal serration disc brake rotor lock	With	-	-	-	-	-
ring	Without	1	-	-	1	1
CENTER LOCK mo		-	-	-		
Axle fixin	g method	12mm E-THRU	Quick release	Quick release	Quick release	Nut
	161 mm	-	-	1	1	-
	163 mm	-	1	-	-	-
Quick release skewer	166 mm	-	-	-	-	-
length	168 mm	-	1	-	-	-
	170 mm	-	-	-	-	-
	173 mm	-	-			-
	135 x 10	-	-			-
Thru Axle (Length x Inner diameter ; mm)	135 x 12	_	_			_
	142 x 12	1	_			-
	148 x 12	-	-	•	-	-
et 11 a	150 x 12	-	-	-	-	-
Flange dist		55.7	57.9	59.2	57.4	57.4
Offset		7.45	8.4	5.5	7.1	7.1
P.C.D. Left/	•	44/45	45	45	45	45
Flange diameter	_	52.8/53.8	53.8	53.8	53.8	53.8
Seal	Hub	Contact	Contact	-	-	-
	FREEHUB body	Contact	Contact	-	-	-
Internal gre	ease sleeve	1	1	-	-	-
Digital adjust	ment system	-	-	-	-	-
	Stainless ball	-	-	-	-	-
Bearing	Cup	Polish	-	-	-	-
	Cone	CBN	-	-	-	-
	Material	Steel	Steel	Steel	Steel	Steel
FREEHUB body	Finish	-		-	-	-
	Material	Aluminum	Aluminum	Aluminum (2 pcs)	Aluminum	Aluminum
Hub shell	Finish	Anodized	Anodized	Shiny	Painted (Black)	Painted (Black)
	Material	Steel	Steel	Steel	Steel	Steel
Axle	Finish	7	-	-	-	-
	Material	-	Aluminum	Steel	Steel	-
Quick release lever	Finish		Painted	Plated	Plated	-
Quick release lever	Color			Black	Black	
			Black			-
Quick release housing	Material		Steel	Steel	Steel	
Jusning	Finish		Painted	Painted	Painted	-
Quick release nut	Material	-	Resin	Resin	Steel + Resin	-
	Finish	-	Black	Black	-	-
Disc breke rotor lock	Material	-	-	-	-	-
ring	Fini <mark>sh</mark>	-	-	-	-	-
Radial		-	-	-	-	-
Average v (w/o axle ar	veight (g) nd lock ring)		-	-	-	-
No		* Can be used for 10-speed with an additional spacer			O.L.D.: 135 mm Available (Refer to MTB FREEHUB specification table)	O.L.D.: 135 mm Available (Refer to MTB FREEHUB specification table

НВ

FΗ

WH

WH

Ser	ies		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Mode	el no.		WH-R9100-C60-CL-F	WH-R9100-C60-CL-R	WH-R9100-C60-TU-F	WH-R9100-C60-TU-R	WH-R9100-C40-CL-F	WH-R9100-C40-CL-R
Model Sp			WH-R9100-C60-CL F	WH-R9100-C60-CL R	WH-R9100-C60-TU F	WH-R9100-C60-TU-R R	WH-R9100-C40-CL F	WH-R9100-C40-CL R
35	1 Hub		Series color	Series color	Series color	Series color	Series color	Series color
Color	1 Quick 2 Hub		Series color	Series color	Series color	Series color	Series color	Series color
	2 Quick		-	-	-	-	-	-
Front Brake			Front Rim brake	Rear Rim brake	Front Rim brake	Rear Rim brake	Front Rim brake	Rear Rim brake
Spe	eds		-	10*/11	-	10*/11	-	10*/11
O.L.D. (mm) Whee		7)	100 622 x 17C	130 622 x 17C	100 700C	130 700C	100 622 x 15C	130 622 x 15C
	Height		50	50	60	60	35	35
Rim	Width Rim		22.4 Sleeved	22.4 Sleeved	28 	28	20.8 Welded	20.8 Welded
	Brazed rein Num		- 16	- 21	- 16	- 21	- 16	- 21
Cmakes	Straigh		<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	Z1 <b>√</b>
Spokes		ded	1	1	1	1	1	1
	But Fixing r		Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
		129 mm	-	-	-	-	-	-
	Quick	133 mm 161 mm	-	-	-	-	-	-
Avia	release	163 mm	-	1	-	1	-	1
Axle	skewer length	166 mm 168 mm	-	-	-	-	-	-
		170 mm	-	-	-		-	-
	Len	173 mm gth	108	141	108	141	108	141
	Diam 100	neter	15	14	15	14	15	14
	100	x 12	-	-	-			-
Thru Axle (Length x	100 110		-	-	-	-	-	-
Inner diameter ; mm)	135	x 10	-	-	-	-	-	-
	135 142	x 12 x 12	-	-	-		-	-
	150	x 12	-	-			-	-
Bearing	Stainle	ess ball up	✓ CBN finish	✓ CBN finish	CBN finish	CBN finish	✓ CBN finish	✓ CBN finish
Dearing	Co	ne	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
	CENTER LO	R LOCK OCK mount	-	-		-	-	-
Disc mount		option	-	-		-	-	-
	comp		-	-	-	-	-	-
OPT D2			-		-	1	-	-
OFFSE	T RIM		-		-	-	-	-
Digital adjust	ment syste Hu		✓ Contact	Contact	Contact	<b>√</b> Contact	✓ Contact	✓ Contact
Seal	FREEHU	JB body	-	Contact	-	Contact	-	Contact
Grease hold Requires		n	1	1	-	<b>√</b>	1	1
Tire	Ty	pe	Clincher	Clincher	Tubular	Tubular	Clincher	Clincher
	Recomme Mate		23-622 - 32-6 <mark>22</mark> Carbon+AL	23-622 - 32-622 Carbon+AL	23-28 inch - 28-28 inch Carbon	23-28 inch - 28-28 inch Carbon	23-622 - 28-622 Carbon+AL	23-622 - 28-622 Carbon+AL
Rim	Fin	ish	Painting	Painting	Painting	Painting	painting	painting
Spoke	Mate Fin		Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black
Nipple	Mate Fin		Aluminum Silver	Aluminum Silver	Aluminum Silver	Aluminum Silver	Aluminum Black	Aluminum Black
FREEHUB body	Mate	erial	-	Titanium (Rear)	- Sliver	Titanium (Rear)	- BIACK	Titanium
	Fin Mate		- Aluminum	Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum
Hub shell	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Mate Fin		Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Quick release lever	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin Mate		Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum
Quick release housing	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release nut	Mate Co	lor	Aluminum Series color	Aluminum Series color	Aluminum Series color	Aluminum Series color	Aluminum Series color	Aluminum Series color
Compatible Sp	oke protec	tor		CP-W124	-	CP-W124	-	CP-W124
Reflector	JIS/C	PSC	SW	SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	А	s	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA
	DI		SW CATEYE RR-317-WUA	SW CATEYE RR-317-WUA	SW CATEYE RR-317-WUA	SW CATEYE RR-317-WUA	SW CATEYE RR-317-WUA	SW CATEYE RR-317-WUA
Average weight (g) (v			SW	SW	SW	SW	SW	SW
tape, tubeless tape, v	/alve stem,	lock ring)	832	1019	666	830	674	834
No	te		-	* The adapter is needed to use 10-speed cassette	-	* The adapter is needed to use 10-speed cassette		* The adapter is needed to use 10-speed cassette
				sprocket		sprocket		sprocket

Ser	ies		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO	SHIMANO
Mode	el no.		WH-R9100-C40-TU-F	WH-R9100-C40-TU-R	WH-R9100-C24-CL-F	WH-R9100-C24-CL-R	WH-RS700-C30-TL-F	WH-RS700-C30-TL-R
Model Spo			WH-R9100-C40-TU F	WH-R9100-C40-TU R	WH-R9100-C24-CL F	WH-R9100-C24-CL R	WH-RS700-C30-TL F	WH-RS700-C30-TL R
	1 Hul	Shell release	Series color Series color	Series color Series color	Series color Series color	Series color Series color	Silver Silver	Silver Silver
Color	2 Hul	o Shell c release	-	-	-		- -	- -
Front	/Rear	release	Front	Rear	Front	Rear	Front	Rear
Brake Spe	eds		Rim brake	Rim brake 10*/11	Rim brake	Rim brake 10*/11	Rim brake	Rim brake 10*/11
O.L.D. (mm) Whee			100 700C	130 700C	100 622 x 15C	130 622 x 15C	100 622 x 15C	130 622 x 15C
D/		t (mm) n (mm)	37 28	37 28	23 20.8	24 20.8	24 20.8	31 20.8
Rim	Rim	joint nforcement	-	-	Sleeved	Sleeved	Welded -	Welded
	Nur	nber nt spoke	16 •	21	16 •	20 ✓	16 •	21
Spokes	Bla	ded	1	1	1	1	<i></i>	1
		tted method	<b>√</b> Quick release	Quick release	<b>√</b> Quick release	<b>√</b> Quick release	Quick release	✓ Quick release
		129 mm 133 mm	-	-	-	-	-	-
	Quick release	161 mm 163 mm	-	-	-	-	-	-
Axle	skewer length	166 mm 168 mm	- - -	-	-	-	-	-
		170 mm	-	-	-		-/	-
		173 mm	108	141	108	141	108	141
	100	neter ) x 8	15 -	14	15	14	16	16
	100	x 12 x 15	-	-	-	-		-
Thru Axle (Length x Inner diameter ; mm)		x 20 x 10	-	-	-	-	-	-
' '	135	x 12 x 12	-	-	-	·	-	-
	150	x 12 ess ball	-	-	-	·	-	-
Bearing	C	up	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
	CENTE	R LOCK	CBN finish -	CBN finish -	CBN finish -	CBN finish -	CBN finish -	CBN finish -
Disc mount	cover	OCK mount option	-	-	-	-	-	-
	comp	Disc rotor patible	-	-	-	-	-	-
OPT D2	rim		-			-	-	-
OFFSE Digital adjust		em	-	1	-	1	-	-
Seal	Н	ub JB body	Contact -	Contact Contact	Contact -	Contact Contact	Contact -	Contact Contact
Grease holdi Requires	ing functio		<b>/</b>	-	1	1	1	1
	Ty	/pe	Tubular	Tubular	Clincher	Clincher	Tubeless	Tubeless
Tire		ended size	inch	23-28 inch - 28-28 inch		23-622 - 28-622	23-622 - 32-622	23-622 - 32-622
Rim	Fir	terial nish	Carbon painting	Carbon painting	Carbon+AL painting	Carbon+AL painting	Carbon+AL painting	Carbon+AL painting
Spoke	Fir	terial nish	Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black
Nipple		terial nish	Aluminum Black	Aluminum Black	Aluminum Black	Aluminum Black	Aluminum Black	Aluminum Black
FREEHUB body		terial nish	-	Titanium -	-	Titanium -	-	Steel -
Hub shell	Mat	terial nish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Axle	Mat	terial nish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Quick release lever	Mat	terial	Aluminum	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Quick release housing	Mat	terial	Anodized Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Quick release nut	Mat	n <mark>ish</mark> terial	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Resin	Anodized Resin
Compatible Sp		tor	Series color	Series color CP-W124	Series color -	Series color CP-WH23 (23T) CP-W120	Black -	Black CP-W124
· · ·	, uc.	CDCC	CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW	CP-W020 (10-speed) CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW
Deficition		CPSC	SW CATEYE RR-550-WUA	SW	SW	SW	SW CATEYE RR-550-WUA	SW
Reflector		AS	SW	SW	SW	SW	SW	SW
Average weight (g) (v		oIN elease, rim	SW	SW	SW	SW	SW	SW
tape, tubeless tape, v	alve stem,	lock ring)	637	747 * The adapter is	618	835 * The adapter is	616	924 * The adapter is
No	te			needed to use 10-speed cassette sprocket		needed to use 10-speed cassette sprocket		needed to use 10-speed cassette sprocket

НВ

FH

WH

WH

Ser	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	WH-RS500-TL-F	WH-RS500-TL-R	WH-RS300-CL-F	WH-RS300-CL-R	WH-RS330-CL-F	WH-RS330-CL-R
Model		WH-RS500-TL	WH-RS500-TL	WH-RS300-CL	WH-RS300-CL	WH-RS330-CL	WH-RS330-CL
Spo	ec. 1 Hub Shell	F Silver	R Silver	F Black	R Black	F Black	R Black
Color	1 Quick release	Silver	Silver	Black	Black	Black	Black
	2 Hub Shell 2 Quick release	-	-	-	-	-	-
Front. Brake		Front Rim brake	Rear Rim brake	Front Rim brake	Rear Rim brake	Front Rim brake	Rear Rim brake
Spe	eds	-	10*/11	-	10*/11	-	10*/11
O.L.D. (mm) Whee		100 622 x 15C	130 622 x 15C	100 622 x 17C	130 622 x 17C	100 622 x 15C	130 622 x 15C
111100	Height (mm)	24	24	24	24	30	30
Rim	Width (mm) Rim joint	20.8 Welded	20.8 Welded	23.2 Sleeved	23.2 Sleeved	20.8 Sleeved	20.8 Sleeved
	Brazed reinforcement	1	<b>√</b>	-	-	-	-
Constant	Number Straight spoke	16 <b>√</b>	20 <b>✓</b>	16 •	20 <b>✓</b>	16 <b>✓</b>	21 <b>√</b>
Spokes	Bladed	1	1	1	1	1	1
	Butted Fixing method	<b>√</b> Quick release	✓ Quick release	<b>√</b> Quick release	<b>√</b> Quick release	Quick release	<b>√</b> Quick release
	129 mm	-	-	-	-		-
	133 mm Quick 161 mm	-	-	-	-	-	-
Axle	release 163 mm	-	<b>√</b>	-	1	-	1
Axie	length 168 mm	-	- ✓	-	· /		-
	170 mm 173 mm	-	-	-			-
	Length	108	141	108	141	108	141
	Diameter 100 x 8	14	14	9 -	10	9	10
	100 x 12	-	-	-	-		-
Thru Axle (Length x	100 x 15 110 x 20	-	-	-	-		-
Inner diamèter ; mm)	135 x 10 135 x 12	-	-	-	-	-	-
-	135 X 12 142 X 12	-	-	-		-	-
	150 x 12 Stainless ball	-	-			-	-
Bearing	Cup	Polish	Polish	Polish	Polish	Polish	Polish
	Cone CENTER LOCK	CBN/Polish -	CBN/Polish -	CBN -	CBN -	CBN/Polish -	CBN/Polish -
Disc mount	CENTER LOCK mount cover option	-	-		-	-	-
Disc mount	140 mm Disc rotor	-	-			-	-
OPT	compatible BAL	-	-	-	-	-	1
D2 OFFSE		-	•		-	-	-
Digital adjust	ment system	1		-	-	-	-
Seal	Hub FREEHUB body	Contact -	Contact Contact	Contact	Contact Contact	Contact	Contact Contact
Grease hold		J	1	10.622	1	1	1
Requires	rım tape Type	- Tubeless	- Tubeless	18-622 Clincher	18-622 Clincher	Clincher	Clincher
Tire	Recommended size Material	23-622 - 32-6 <mark>22</mark> Aluminum	23-622 - 32-622 Aluminum	23-622 - 32-622 Aluminum	23-622 - 32-622 Aluminum	23-622 - 32-622 Aluminum	23-622 - 32-622 Aluminum
Rim	Finish	Anodized	Anodized	Black	Black	Painted	Painted
Spoke	Material Finish	Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
FREEHUB body	Finish Material	Black -	Black Steel	Black Anodized -	Black Anodized Steel	Black -	Black Steel
	Finish Material	- Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum
Hub shell	Finish	Anodized	Anodized	Anodized	Anodized		
Axle	Material Finish	Aluminum Anodized	Aluminum Anodized	Steel -	Steel -	Steel -	Steel -
Quick release lever	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum	Aluminum
Quick release housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
<u> </u>	Finish Material	An <mark>odized</mark> Resin	Anodized Resin	Anodized Resin	Anodized Resin	Anodized Resin	Anodized Resin
Quick release nut	Color	Black	Black CP-WH23 (23-28T)	Black	Black	Black	Black
Compatible Sp	ooke protector	,	CP-W120 (32T) CP-W020 (10-speed)	-	CP-WH23 (23-28T) CP-W120 (32T)	-	CP-W124
Reflector	JIS/CPSC	SW	SW	SW	SW	CATEYE RR-550-WUW SW	SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW		CATEYE RR-550-WUA SW		CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA
Average weight (g) (v	v/o guick release, rim	SW 705	SW 944	5W 770	SW 1057	SW 875	SW 1176
tape, tubeless tape, v	valve stem, lock ring)	703	* The adapter is	770	* The adapter is	0/3	* The adapter is
No	te		needed to use 10-speed cassette sprocket	-	needed to use 10-speed cassette sprocket		needed to use 10-speed cassette sprocket

Model Model n Spec Color Front/R Brake t Speec O.L.D. (mm) [F Wheel ]	1 Hub Shell 1 Quick release 2 Hub Shell 2 Quick release	WH-RS100-CL-F WH-RS100-CL F Black Black Black	WH-RS100-CL-R WH-RS100-CL R	WH-RS010-CL-F WH-RS010-CL	WH-RS010-CL-R WH-RS010-CL	WH-R501-A-CL-F	WH-R501-A-CL-R
Color Front/R Brake t Speec O.L.D. (mm) (F	1 Hub Shell 1 Quick release 2 Hub Shell 2 Quick release	F Black		WH-RS010-CL	WH-RS010-CI	WILL DECA A CL	
Color  Front/R  Brake t  Speec  O.L.D. (mm) (F	1 Hub Shell 1 Quick release 2 Hub Shell 2 Quick release Rear	Black	R	F	R	WH-R501-A-CL F	WH-R501-A-CL
Front/R Brake t Speed O.L.D. (mm) (F	1 Quick release 2 Hub Shell 2 Quick release Rear	Black	Black	F Black	R Black	F Black	R Black
Brake t Speed O.L.D. (mm) (F	2 Quick release Rear	_	Black -	Black	Black	Black Silver	Black Silver
Brake t Speed O.L.D. (mm) (F		-	-	Black	Black	Black	Black
O.L.D. (mm) (F	ype	Front Rim brake	Rear Rim brake	Front Rim brake	Rear Rim brake	Front Rim brake	Rear Rim brake
		100	10*/11 130	100	10*/11 130	100	8/9/10 130
l l		622 x 17C 24	622 x 17C 24	622 x 15C 24	622 x 15C 24	622 x 15C 24	622 x 15C 24
Rim	Width (mm)	23.2	23.2	20.8	20.8	20.8	20.8
L	Rim joint grazed reinforceme		Sleeved -	Sleeved -	Sleeved -	Sleeved -	Sleeved -
l . ⊢	Number Straight spoke	20	24 -	20	24	20	24 -
Spokes	Bladed Butted	-	-	-	-	1	1
	Fixing method	Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
	129 mm 133 mm		-	-	-	-	- -
	Quick release 163 mm	-	-	-	-	-	-
Axle	skewer 166 mm	-	-	-	-	-	-
	170 mm	-	-	-	,	-	-
	173 mm Length	108	- 141	108	141	108	- 141
	Diameter 100 x 8	9	10	9	10	9	10
	100 x 12	-	=	-			- -
Thru Axle (Length x	100 x 15 110 x 20	-	-	-	-	-	-
Inner diamèter ; mm)	135 x 10 135 x 12	-	-	-	:	-	-
	142 x 12 150 x 12	-	-		:	-	-
	Stainless ball	-	-	-	-	-	-
Bearing	Cup Cone	Polish CBN	Polish CBN	Polish CBN finish	Polish CBN finish	Polish CBN finish	Polish CBN finish
-	CENTER LOCK CENTER LOCK mour	- nt	-	-	-	-	-
Disc mount	cover option 140 mm Disc rotor	-	-	-	-	-	-
OPTB/	compatible	-	-	-	-	-	-
D2 rir	m	-	-	-	-	-	-
OFFSET Digital adjustm		-	-	-	-	-	-
Seal	Hub FREEHUB body	Contact -	Contact Contact	Contact	Contact Contact	Contact -	Contact Contact
Grease holdin Requires ri	g function	- 18-622	- 18-622	-	-	- J	-
Tire L	Type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
Rim	Recommended size Material	Aluminum	23-622 - 32-622 Aluminum	23-622 - 32-622 Aluminum	23-622 - 32-622 Aluminum	23-622 - 32-622 Aluminum	23-622 - 32-622 Aluminum
	Finish Material	Black Stainless steel	Black Stainless steel	Anodized Stainless steel	Anodized Stainless steel	Anodized Stainless steel	Anodized Stainless steel
Spoke	Finish Material	Black Brass	Black Brass	Black Brass	Black Brass	Black Brass	Black Brass
Nipple	Finish	Silver	Silver	Silver	Silver	Silver	Silver
FREEHUB body	Material Finish	-	Steel -	-	Steel -	-	Steel -
Hub shell	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Axle	Material Finish	Steel	Steel	Steel	Steel	Steel	Steel
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Quick release housing	Finish Material	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel
Quick release nut	Finish Material	Black Resin	Black Resin	Painted Resin	Painted Resin	Painted Resin	Painted Resin
Quick release nut	Color	Black	Black	Black	Black	Black	Black CP-FH06
Compatible Spo	oke protector		CP-WH24 CP-FH53 (34T)	-	CP-WH24 CP-FH53 (34T)	-	CP-FH31 CP-FH46 CP-WH24
T	JIS/CPSC	SW	SW	SW	CATEYE RR-550-WUW SW	SW	SW
Reflector	AS				CATEYE RR-550-WUA SW		
	DIN	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA
Average weight (g) (w/	o quick release, rir	SW n 827	SW 1105	SW 818	SW 1102	SW 820	SW 1069
tape, tubeless tape, va	=	-	* The adapter is needed to use 10-speed cassette	2.0	* The adapter is needed to use 10-speed cassette		.303

## Wheel (Rim Brake)

Sei	ries		SHIMANO	SHIMANO
Mode	el no.		WH-R501-CL-F	WH-R501-CL-R
	name		WH-R501-CL	WH-R501-CL
Sp	ec.	Chall	F	R
Color		Shell release	Black Black	Black Black
Color	2 Hub Shell		Silver Black	Silver
Front	2 Quick release Front/Rear			Black Rear
Brake	type		Front Rim brake	Rim brake
Speeds O.L.D. (mm) (Front/Rear)			100	8/9/10 130
	l Size		622 x 15C	622 x 15C
	Heigh Width	t (mm) ı (mm)	24 20.8	24 20.8
Rim	Rim	joint	Sleeved	Sleeved
		nforcement nber	20	24
Spokes	Straigh	t spoke	-	-
		ded ted	-	-
		method	Quick release	Quick release
		129 mm 133 mm	-	-
	Quick	161 mm	-	=
Axle	release skewer	163 mm	-	<b>√</b>
Avie	length	166 mm 168 mm		· ·
		170 mm	-	=
	Ler	173 mm gth	108	- 141
	Dian	neter	9	10
		x 8 x 12	-	-
	100 x 15		-	-
Thru Axle (Length x Inner diameter ; mm)	110 x 20 135 x 10		-	-
. ,	135	x 12	-	-
		x 12 x 12	-	-
	Stainless ball		-	-
Bearing		up one	Polish CBN finish	Polish CBN finish
	CENTE	R LOCK	-	-
Disc mount		OCK mount option	-	-
	140 mm	Disc rotor	-	-
OPT	BAL	atible	-	-
	rim T RIM		-	
Digital adjust		m	-	-
Seal		ub JB body	Contact	Contact
Grease hold			-	Contact -
Requires	rim tape		Climahan	Clinahau
Tire	Recomme	pe ended size	Clincher 23-622 - 32-6 <mark>22</mark>	Clincher 23-622 - 32-622
Rim	Mat	erial	Aluminum	Aluminum
		ish erial	Anodized Stainless steel	Anodized Stainless steel
Spoke	Fir	ish	Black	Black
Nipple		erial iish	Brass Silver	Brass Silver
FREEHUB body	Mat	erial		Steel
		erial	- Aluminum	Aluminum
Hub shell	Fir	ish	Anodized	Anodized
Axle		erial iish	Steel -	Steel -
Quick release lever	Mat	erial	Aluminum	Aluminum
	Mat	ish erial	Painted Steel	Painted Steel
Quick release housing	Fir	iish	Painted	Painted
Quick release nut		erial lor	Resin Black	Resin Black
Compatible Spoke protector		-	CP-FH06 CP-FH31 CP-FH46	
	JIS/0	CPSC	SW	CP-WH24 CATEYE RR-550-WUW SW
Reflector		ıs	CATEYE RR-550-WUA SW CATEYE RR-317-WUA	CATEYE RR-550-WUA SW CATEYE RR-317-WUA
	DIN			SW SW
Average weight (g) (v tape, tubeless tape, v No	w/o quick ro valve stem, ote	elease, rim lock ring)	820	1069



ST

o I

BL

JL.

BR

RR

---

00

FD

BB

НВ

FH

WH

## Wheel (Disc Brake)

Ser	ries	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Mode	el no.	WH-R9170-C60-TU- F12	WH-R9170-C60-TU- R12	WH-R9170-C40-TL- F12	WH-R9170-C40-TL- R12	WH-R9170-C40-TU- F12	WH-R9170-C40-TU- R12
Model	name	WH-R9170-C60-TU	WH-R9170-C60-TU	WH-R9170-C40-TL	WH-R9170-C40-TL	WH-R9170-C40-TU	WH-R9170-C40-TU
	EC	F12	R12	F12	R12	F12	R12
	1 Hub Shell 1 Quick release	Series color	Series color	Series color	Series color	Series color	Series color
Color	2 Hub Shell	-	-	-	-	-	-
	2 Quick release		-		-		-
Front		Front CENTER LOCK disc	Rear CENTER LOCK disc	Front CENTER LOCK disc	Rear CENTER LOCK disc	Front CENTER LOCK disc	Rear CENTER LOCK disc
Brake	••	brake	brake	brake	brake	brake	brake
Spe		100	10*/11	-	10*/11	- 100	10*/11
O.L.D. (mm) Whee		700C	142 700C	100 622 x 17C	142 622 x 17C	700C	142 700C
771100	Height (mm)	60	60	37	37	37	37
Rim	Width (mm) Rim joint	28	28	24	24	28	28
	Brazed reinforcement	-	-	-	-	-	-
	Number (Front/Rear)	24	24	24	24	24	24
Spokes	Straight spoke	1	1	1	1	1	1
	Bladed Butted	1	1	1	1	1	1
Axle Fixin	g method	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
	129	-	-	-	-	-	-
	133 161	-	-	-	-	-	-
Quick release skewer	163	-	-	-	-	A	-
length (mm)	166 168	-	-	-	-	-	-
	170	-	-	-		-	-
	173	-	-	-	-	-	-
	100 x 8 100 x 12	-	-	-	-		-
	100 x 12	-	-	-	-		-
Thru Axle (Length x	110 x 20	-	-	•	-	-	-
Inner diamèter ; mm)	135 x 10 135 x 12	-	-	-	:	-	-
	142 x 12	-	1	-	1	-	1
	150 x 12	-,	-	-	-	-	-
Bearing	Stainless ball Cup	✓ CBN finish	✓ CBN finish	CBN finish	CBN finish	CBN finish	✓ CBN finish
Dearing	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
	CENTER LOCK	1	1	1	1	1	1
Disc mount	CENTER LOCK mount cover option	-	-	-	-	-	-
	140 mm Disc brake rotor compatible	1	1	1	1	✓	1
OPT		-	<b>1</b>	-	1	-	1
	rim	1	1		-	-	-
OFFSE Digital adjust		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
Grease hold	FREEHUB body	-	Contact	-	Contact ✓	-	Contact
	rim tape	-		1	1	-	-
Tire	Туре	Tubular	Tubular	Tubeless	Tubeless	Tubular	Tubular
	Recommended size Material	23-622 - 32-622 Carbon	23-622 - 32-622 Carbon	23-622 - 32-622 Carbon	23-622 - 32-622 Carbon	23-622 - 32-622 Carbon	23-622 - 32-622 Carbon
Rim	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
-	Finish Material	Black Aluminum	Black Aluminum	Black Aluminum	Black Aluminum	Black Aluminum	Black Aluminum
Nipple	Finish	Silver	Silver	Black	Black	Black	Black
FREEHUB body	Material	-	Titanium	-	Titanium	-	Titanium
	Finish Material	- Alumin <mark>um</mark>	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Quick release lever	Material	Allodized	-	-	-	-	-
	Finish		-	-	-	-	-
Quick release housing	Material Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
_	Color poke protector	-	- CP-W1460	-	- CP-W1460	-	- CP-W1460
Companible sp	JIS/CPSC	CATEYE RR-550-WUW		CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW	
	JI3/CP3C	SW	SW	SW	SW	SW	SW
Reflector	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	SW	SW
	DIN	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA
Average weight (a) (v	w/o quick re <mark>lease,</mark> rim	SW	SW	SW	SW	SW	SW
tape, tubeless tape, v	valve stem, lock ring)	678	829	739	883	609	763
			* The adapter is needed to use		* The adapter is needed to use		* The adapter is needed to use
l No	ote		10-speed cassette		10-speed cassette		10-speed cassette
I		L	sprocket		sprocket		sprocket

## Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-RS770-C30-TL- F12	WH-RS770-C30-TL- R12	WH-RS370-TL-F12	WH-RS370-TL-R12	WH-RS171-CL- F12-700C	WH-RS171-CL- F12-650B
Model name		WH-RS770-C30-TL	WH-RS770-C30-TL	WH-RS370-TL	WH-RS370-TL	WH-RS171-CL	WH-RS171-CL
SPEC		F12	R12	F12	R12	F12-700c	F12-650b
	1 Hub Shell 1 Quick release	Black -	Black	Black -	Black	Black -	Black
Color	2 Hub Shell	-	-	-	-	-	-
Front	2 Quick release /Rear	- Front	Rear	- Front	Rear	- Front	- Front
	type	CENTER LOCK disc	CENTER LOCK disc	Disc brake	Disc brake	CENTER LOCK disc	CENTER LOCK disc
	eds	brake	<u>brake</u> 10*/11	Disc blake	10*/11	brake	brake
O.L.D. (mm)	(Front/Rear)	100	142	100	142	100	100
Whee	el Size Height (mm)	622 x 17C 28	622 x 17C 28	622 x 19C 19	622 x 19C 19	622 x 19C (700c) 19	584 x 19C (650b)
Rim	Width (mm)	23	23	24.6	24.6	24.6	24.6
······	Rim joint Brazed reinforcement	Welded -	Welded -	Welded -	Welded	Sleeved	Sleeved
	Number (Front/Rear)	24	24	24	24	28	28
Spokes	Straight spoke Bladed	1	<i></i>	-	1	-	-
	Butted	1	1	-	-	-	-
Axle Fixin		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
	129 133	-		-	-	-	-
Outale mala a l	161	-	-	-		-	-
Quick release skewer length (mm)	163 166	-	-	<del>-</del>	-	-	-
= ' '	168 170	-	-	-		_	-
	170	-	-	-		-	-
	100 x 8	-	-	-	-		-
	100 x 12 100 x 15	-	-	-	-	-	-
Thru Axle (Length x	110 x 20	-	-	-	-	-	-
Inner diameter ; mm)	135 x 10 135 x 12	-	-	-		-	-
	142 x 12	-	1		1	-	-
	150 x 12 Stainless ball	-	-	-		-	-
Bearing	Cup	CBN finish	CBN finish	Polish	Polish	Polish	Polish
	Cone CENTER LOCK	CBN finish  ✓	CBN finish  ✓	CBN finish	CBN finish  ✓	CBN finish  ✓	CBN finish  ✓
<u>.</u>	CENTER LOCK mount	-	-			-	-
Disc mount	cover option 140 mm Disc brake	1	1	1	1	1	1
OPT	rotor compatible	-	<b>√</b>	-		-	-
D2	rim	-			-	-	-
OFFSE Digital adjust		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
Grease hold	FREEHUB body	-	Contact	-	Contact	-	-
Requires		-		1	7	7	1
Tire	Type Recommended size	Tubeless 25-622 - 38-622	Tubeless 25-622 - 38-622	Tubeless 28-622 - 45-622	Tubeless 28-622 - 45-622	Clincher 28-622 - 42-622	Clincher 28-584 - 42-584
Rim	Material	Carbon+AL	Carbon+AL	Aluminum	Aluminum	Aluminum	Aluminum
	Finish Material	Painted Stainless steel	Painted Stainless steel	Anodized/Painted Stainless steel	Anodized/Painted Stainless steel	Anodized/Painted Stainless steel	Anodized/Painted Stainless steel
Spoke	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material Finish	Aluminum Black	Aluminum Black	Aluminum Black	Aluminum Black	Brass Silver	Brass Silver
FREEHUB body	Material	-	Steel	-	Steel	-	-
•	Finish Material	- Alumin <mark>um</mark>	Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum
Hub shell	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum -	Steel -	Aluminum -	Aluminum -
Quick release lever	Material		-	-	-	-	-
•	Finish Material	-	-	-	-	-	-
Quick release housing	Finish	-	-	-	-	-	-
Quick release nut	Material Color	-	-	-	-	-	-
					CP-FH08 (23T-28T		
Compatible spoke protector			CP-W1460	-	11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 11/ 10-speed)	-	-
	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
Reflector	AS	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA
	DIN	SW CATEYE RR-317-WUA	SW CATEYE RR-317-WUA	SW CATEYE RR-317-WUA		SW CATEYE RR-317-WUA	SW CATEYE RR-317-WUA
Average weight (g) (w/o guick release, rim		SW	SW	SW	SW	SW	SW
tape, tubeless tape, valve stem, lock ring)		733	904 * The adapter is	890	1090 * The adapter is	897	867
Note			needed to use 10-speed cassette sprocket	-	needed to use 10-speed cassette sprocket		

ST
SL
BL
BR
BR
BR

FD

ВВ

НВ

WH

## Wheel (Disc Brake)

Mode					SHIMANO
Model no.		WH-RS171-CL- R12-700C	WH-RS171-CL- R12-650B	WH-RX010-CL-F	WH-RX010-CL-R
Model name		WH-RS171-CL	WH-RS171-CL	WH-RX010-CL	WH-RX010-CL
SPE	:C	R12-700c	R12-650b	F	R
	1 Hub Shell 1 Quick release	Black	Black	Black	Black
Color	2 Hub Shell	-	-	Black -	Black -
	2 Quick release	-	-	-	-
Front/		Rear CENTER LOCK disc	Rear CENTER LOCK disc	Front CENTER LOCK disc	Rear CENTER LOCK disc
Brake	* *	brake	brake	brake	brake
Spec O.L.D. (mm) (		10*/11 142	10*/11 142	100	10*/11 135
Wheel		622 x 19C (700c)	584 x 19C (650b)	622 x 17C	622 x 17C
	Height (mm)	19	19	24	24
Rim	Width (mm) Rim joint	24.6 Sleeved	24.6 Sleeved	23 Sleeved	23 Sleeved
	Brazed reinforcement	-	-	-	-
I F	Number (Front/Rear) Straight spoke	28	28	28	28
Spokes	Bladed	-	-	-	-
Axle Fixing	Butted	- 12 mm E-THRU	- 12 mm E-THRU	- Quick release	- Quick release
Axie rixing	129		-		- Quick release
	133	-	-	1	-
Quick release skewer	161 163	-	-	-	-
length (mm)	166	-	-	-	
	168 170	-	-	-	-
	173	-	-	-	1
	100 x 8 100 x 12	-	-	-	-
	100 x 15	-	-	-	-
Thru Axle (Length x	110 x 20	-	-	-	-
Inner diameter ; mm)	135 x 10 135 x 12	-	-		-
]	142 x 12	1	<b>✓</b>	-	·
	150 x 12 Stainless ball	-	-	-	
Bearing	Cup	Polish	Polish	Polish	Polish
	Cone CENTER LOCK	CBN finish  ✓	CBN finish  ✓	CBN finish	CBN finish
J	CENTER LOCK mount	_		1	-
Disc mount	cover option 140 mm Disc brake	,	,		
OPTE	rotor compatible	-		7	-
D2 r		-		7	-
OFFSET		-	-	-	-
Digital adjusti	Hub	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	Contact	-	Contact
Grease holdi Requires		1	1	1	7
Tire	Туре	Clincher	Clincher	Clincher	Clincher
H	Recommended size Material	28-622 - 42-6 <mark>22</mark> Aluminum	28-584 - 42-584 Aluminum	25-622 - 38-622 Aluminum	25-622 - 38-622 Aluminum
Rim	Finish	Anodized/Painted	Anodized/Painted	Anodized (Black)	Anodized (Black)
Spoke	Material Finish	Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black
Nipple	Material	Brass	Brass	Brass	Brass
<del></del>	Finish Material	Silver Steel	Silver Steel	Silver -	Silver Steel
FREEHUB body	Finish	-	ì	- Al.,	-
Hub shell	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Axle	Material	Aluminum	Aluminum	Steel	Steel
	Finish Material		-	- Aluminum	- Aluminum
Quick release lever	Finish	-	-	Painted	Painted
Quick release housing	Material Finish	-	-	Steel Painted	Steel Painted
Quick release nut	Material		ı	Resin	Resin
	Color	- CP-FH08 (23T-28T	- CP-FH08 (23T-28T	Black	Black
		11-speed)	11-speed)		CP-FH08/CP-WH12
Compatible spoke protector		CP-WH41 (23-30T 10-speed)	CP-WH41 (23-30T 10-speed)	-	(11-speed), CP-FH40/CP-FH41/CP-
		CP-WH12 (32T 11/ 10-speed)	CP-WH12 (32T 11/ 10-speed)		WH12 (10-speed)
T	JIS/CPSC	CATEYE RR-550-WUW	CATEYE RR-550-WUW		CATEYE RR-550-WUW
		SW CATEYE RR-550-WUA	SW CATEYE RR-550-WUA	SW CATEYE RR-550-WUA	SW CATEYE RR-550-WUA
Reflector	AS	SW	SW	SW	SW
[	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim		1098	1067	982	1177
tape, tubeless tape, v	aive stem, lock ring)	* The adapter is	* The adapter is	332	* The adapter is
Note		needed to use	needed to use		needed to use
1		10-speed cassette sprocket	10-speed cassette sprocket		10-speed cassette sprocket

### **Head Parts**

Ser	DURA-ACE		
Mode	HP-7410		
Si	JIS ENGLISH		
Thr	BC 1 inch x 24 T.P.I.		
Sealed cartri	dge bearings	1	
Stack hei	ght (mm)	37.6	
Lock nut	Material	Aluminum	
Lock nut	Finish	Anodized	
Upper/Lower cups	Material	Aluminum	
Opper/Lower cups	Finish	Anodized	
Unner stem sens	Material	Aluminum	
Upper stem cone	Finish	Anodized	
Stem cone	Material	Aluminum	
Stem cone	Finish	Anodized	
Average weight (g)		101	
No	ote		



ST

ст

SL

*,* \_

RR

RD

FD

ΗВ

EH

WH



# URBAN

	Page	
Internal Geared Hub	178	SG
Chain Tensioner	183	СТ
Cassette Sprocket	184	CS
Shifting Lever	185	SL
Brake Lever (Hydraulic Disc Brake)	189	BL
Brake Lever	190	BL
Brake (Hydraulic Disc Brake)	190	BR
Brake (Roller Brake)	191	RB
Crankset	192	FC
Front Hub (Roller Brake)	193	НВ
FREEHUB (Roller Brake)	194	FH
FREEHUB (Band Brake)	195	FH
Head Parts	195	НР



Ser	ies	SHIMANO ALFINE	SHIMANO ALFINE	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Mode	el no.	SG-S7001-11	SG-S7001-8	SG-C7002-5CD	SG-C7000-5V	SG-C7000-5R	SG-C7000-5C
Function	n name	INTER-11	INTER-8	INTER-5E	INTER-5E	INTER-5E	INTER-5E
	1	Silver	Silver	Silver	Silver	Silver	Silver
Color	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Brake type	Mount Type	CENTER LOCK disc brake	CENTER LOCK disc brake	Coaster brake, Special disc brake mount for SM- RTC60	V-BRAKE	INTER-M	Coaster Brake
,	Recommended Model	-	BR-S7000	BR-M6100 BR-MT420	-	BR-C6000 BR-C3010 BR-C3000	-
Spe	eds	11	8	5	5	5	5
	Total	409%	307%	2.63	263%	263%	263%
	1	0.527	0.527	1	1	1	1
	2	0.681	0.644	1.277	1.277	1.277	1.277
	3	0.770	0.748	1.622	1.622	1.622	1.622
	4	0.878	0.851	2.07	2.07	2.07	2.07
	5	0.995	1	2.63	2.63	2.63	2.63
Gear ratio	6	1.134	1.223	-	-	-	-
	7	1.292	1.419	-	-	-	-
	8	1.462	1.615	-		-	-
	9	1.667	-			-	-
	10	1.888	-	-	-	-	-
	11	2.153	-		-	-	-
Shifting s		Top Normal	Top Normal	Top-Normal	Top Normal	Top Normal	Top Normal
Silent				1	1		
Gear change sup	port mechanism	1	1		1	1	1
Shifting POWE	-	1	1	1	1	1	1
Driving e		High	High	HIGH	High	High	High
w/ Left han	•	_			√	-	_
O.L.D.	-	135	135	135	135	135	135
Spoke		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
	28H		-	-	-	-	-
	32H	1	1	1	1	1	1
Spoke hole	36H	1	1	1	· /	1	1
	Others		_		<u> </u>	_	_
	182	-		_	-	_	_
	184			-	-	-	_
Axle length (mm)	187	1	1	1	<b>√</b>	1	<b>√</b>
. sac rength (min)	193	-	-	-	-	-	-
}	Others		-	-	-	-	-
Flange dist		57.3	57.3	58.3	58.3	58.3	58.3
Flange dian	1 1	104.3	104.3	105.2	105.2	105.2	105.2
Trange dian	Right	3.2	3.2	3.2	3.2	3.2	3.2
Flange width (mm)	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset		3.2	3.2	3.7	3.2	3.2	3.7
P.C.D Left/R	• •	92.6	92.6	92.6	92.6	92.6	92.6
r.c.D Leit/R	material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Average v		1665	1670	2010	1670	1670	1970
Average v No		-	-	2010	-	-	-
INO							

Ser	ries	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Mode	el no.	SG-C7000-5D	SG-C6011-8V	SG-C6011-8R	SG-C6001-8V	SG-C6001-8R	SG-C6001-8C
Functio	n name	INTER-5E	INTER-8	INTER-8	INTER-8	INTER-8	INTER-8
	1	Silver	Silver	Silver	Silver	Silver	Silver
Color	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
	Mount Type	CENTER LOCK disc brake	V-BRAKE	INTER-M	V-BRAKE	INTER-M	Coaster Brake
Brake type	Recommended Model	-	-	BR-C6000 BR-C3010 BR-C3000	-	BR-C6000 BR-C3010 BR-C3000	-
Spe	eds	5	8	8	8	8	8
	Total	263%	307%	307%	307%	307%	307%
	1	1	0.527	0.527	0.527	0.527	0.527
	2	1.277	0.644	0.644	0.644	0.644	0.644
	3	1.622	0.748	0.748	0.748	0.748	0.748
	4	2.07	0.851	0.851	0.851	0.851	0.851
	5	2.63	1	1	1	1	1
Gear ratio	6	-	1.223	1.223	1,223	1.223	1.223
	7	-	1.419	1.419	1.419	1.419	1.419
	8	-	1.615	1.615	1.615	1.615	1.615
	9	-	-	-		-	-
	10	-	-			-	-
	11	-	-		-	-	-
Shifting :		Top Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal
Silent		√	<b>✓</b>	201.1101.11101	<b>✓</b>	<b>✓</b>	<b>✓</b>
Gear change sup		· /	<b>1</b>	1		· /	1
Shifting POWE	-	1	1			1	1
Driving e		High	High	High	Standard	Standard	Standard
w/ Left har	•		√	riigii	✓	-	-
O.L.D.		135	132	132	132	132	132
Spoke		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
эрок	28H	-	-	-	-	#13/#1 <del>-1</del>	-
	32H			1	- -	- -	<b>√</b>
Spoke hole	36H	1	1	1	<b>4</b>	1	1
	Others		•	40H	-	40H	-
				4011	-	4011	-
	182				-	-	-
Avia langth (mm)	184		1	<b>√</b>	✓	1	1
Axle length (mm)	187		-	-	-	-	-
	193		-	-	-	- 202	-
Elanna ellet	Others	57.3	- 59.2	- 59.2	203	203	- 59.2
Flange dist		57.3 105.2	58.3	58.3	58.3	58.3	58.3 105.2
Flange diar			105.2	105.2	105.2	105.2	
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2	3.2
24 .	Left (mm)	3.2	3.2	3.2	3.2	3.2	3.2
Offset		3.2	2.7	2.7	2.7	2.7	2.55
P.C.D Left/F	-	92.6	92.6	92.6	92.6	92.6	92.6
Hub shell	material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	finish	Painted	Painted	Painted	Painted	Painted	Painted
Average v		1650	1685	1660	1735	1710	2040
No	ote	-	-	-	-	-	-

Ser	ies	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Mode	el no.	SG-C6001-8D	SG-C6001-8CD	SG-C3001-7R	SG-C3001-7C	SG-C3001-7C-DX	SG-C3001-7D
Functio	n name	INTER-8	INTER-8	INTER-7	INTER-7	INTER-7	INTER-7
	1	Silver	Silver	Silver	Silver	Silver	Silver
Color	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Brake type	Mount Type	CENTER LOCK disc brake	Coaster brake, Special disc brake mount for SM- RTC60	INTER-M	Coaster Brake	Coaster Brake	CENTER LOCK disc brake
	Recommended Model	-	-	BR-C3010 BR-C3000	-	-	-
Spe	eds	8	8	7	7	7	7
	Total	307%	307%	244%	244%	244%	244%
	1	0.527	0.527	0.632	0.632	0.632	0.632
	2	0.644	0.644	0.741	0.741	0.741	0.741
	3	0.748	0.748	0.843	0.843	0.843	0.843
	4	0.851	0.851	0.989	0.989	0.989	0.989
C	5	1	1	1.145	1.145	1.145	1.145
Gear ratio	6	1.223	1.223	1.335	1.335	1.335	1.335
	7	1.419	1.419	1.545	1.545	1,545	1.545
	8	1.615	1.615	-	-	-	-
	9	-	-			-	-
	10	-	-	-		-	-
	11	-	-	-	-	-	-
Shifting :	structure	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal
Silent	clutch	1	✓	-	-	-	-
Gear change sup	port mechanism	1	<b>✓</b>	-	-	-	-
Shifting POWE	R MODULATOR	1	<b>V</b>	-	-	-	-
Driving e	fficiency	Standard	Standard	Standard	Standard	Standard	Standard
w/ Left har	nd dust cap	-	-	-	-	-	-
O.L.D.	(mm)	135	135	130	127	127	135
Spoke	e size	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
	28H	-	-	-	-	-	-
	32H	1	1	1	1	1	1
Spoke hole	36H			1	1	1	1
	Others	-	-	-	-	-	-
	182	-	-	1	-	-	-
	184		-	-	-	1	-
Axle length (mm)	187	1	✓	-	-	-	1
	193	-	-	-	-	-	-
	Others		-	201	176	176	-
Flange dist	ance (mm)	57.3	58.3	54.6	56.2	56.2	54.6
Flange diar	neter (m <mark>m)</mark>	105.2	105.2	99.6	92.5	92.5	99.6
Elongo width (mm)	Right	3.2	3.2	3.2	2.3	2.3	3.2
Flange width (mm)	Left	3.2	3.2	3.2	2.7	2.7	3.2
Offset	(mm)	3.1	4	3.85	4.6	4.6	2.5
P.C.D Left/F	Right. (mm)	92.6	92.6	87	83.5	83.5	87
	material	Aluminum	Aluminum	Aluminum	Steel	Steel	Aluminum
Hub shell	finish	Painted	Painted	Painted	Plated	Plated+ Painted(clear)	Painted
Average weight (g)		1730	2090	1495	1915	1915	1470
Average v	Note						

### Internal Geared Hub

Seri	ies	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Mode	l no.	SG-5R30	SG-5R30-VS	SG-5R35-VS	SG-3R75-B	SG-3R40	SG-3R42
Function	n name	INTER-5	INTER-5	INTER-5	INTER-3	INTER-3	INTER-3
	1	Silver	Silver	Silver	Silver	Silver	Silver
Color	2	-	-	Black	-	-	-
	3	-	-	-	-	-	-
	Mount Type	INTER-M	V-BRAKE	V-BRAKE	INTER-M	INTER-M	INTER-M
Brake type	Recommended Model	BR-C3010 BR-C3000	-	-	BR-C3010 BR-C3000	BR-C3010 BR-C3000	BR-C3010 BR-C3000
Spe		5	5	5	3	3	3
	Total	206%	206%	206%	158%	186%	186%
	1	0.750	0.750	0.750	0.632	0.733	0.733
ŀ	2	1.001	1.001	1.001	0.741	1.000	1.000
ŀ	3	1.159	1.159	1.159	1.000	1.364	1.364
ŀ	4	1.335	1.335	1.335	-	-	-
}	5	1.545	1.545	1.545		-	<u> </u>
Gear ratio	6	-	-	-			-
}	7	-	-	-			-
}	8	-	-	-			-
-	9	-	-	-	-		<u> </u>
-		-		-		-	-
-	10		-			-	
Chiffi	11	- 1 No	- N	-	1	-	- Na
Shifting s		Low Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal
Silent		-	1	/	1	-	-
	Gear change support mechanism		-	-	-	•	<b>√</b>
Shifting POWER		-	-	-	-	1	1
Driving e	-	Standard	Standard	Standard	HIGH	Standard	Standard
w/ Left han	-	-	1	1	-	-	-
O.L.D.		132	132	132	122	120/127/130	120
Spoke		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
	28H	-	-	-	-	1	1
Spoke hole	32H	1	1	1	-	1	-
	36H	1	1	1	1	1	1
	Others			-	-	-	-
	182	-		-	-	1	<b>√</b>
	184	1	1	1	-	1	-
Axle length (mm)	187		-	-	-	-	-
	193	-	-	-	1	-	-
	Others	210	210	-	174/198/200	170/177/189/192	192
Flange dist	ance (mm)	54.6	54.6	54.6	51.1	53.5	53
Flange dian	neter (mm)	86	86	86	92.5	84	70
Flange width (mm)	Right	2.3	2.3	2.3	2.3	2.3	3.0
J,	Left	2.5	2.5	2.5	2.7	2.3	3.0
Offset	(mm)	0.3	0.3	0.3	3.6	0.8(120mm Axle) / 2.5	0.8
P.C.D Left/R	ight. (mm)	76	76	76	83.5	74	60
Hub chall	material	Steel	Steel	Aluminum	Steel	Steel	Steel
Hub shell	finish	Plated	Plated	Painted	Plated	Plated	Plated
Average w	veight (g)	1305	1330	1255	1315	885	872
No	te	*Japan market only	*Japan market only	*Japan market only	-	-	Specification for Japan market

181

Ser	ries	SHIMANO NEXUS	SHIMANO NEXUS	
Mode	el no.	SG-3C41	SG-3D55	
Functio		INTER-3	INTER-3	
- ancas	1	Silver	Silver	
Color	2	-	Black	
	3	_	-	
	Mount Type	Coaster brake	CENTER LOCK disc	
Brake type	Recommended	_	brake -	
6	Model	2	2	
Spe	eds	186%	186%	
	Total 1			
		0.733	0.733	
	2	1.000	1.000	
	3	1.364	1.364	
	4	-	-	
Gear ratio	5	-	-	
	6	-	-	
	7	-	-	
	8	-	-	
	9	-	-	
	10	-	-	
61.164	11	-	-	
Shifting		Low Normal	Low Normal	
Silent		-	· ·	
Gear change sup		1	<b>1</b>	
	R MODULATOR	1	/	
	efficiency	Standard	Standard	
w/ Left har		-		
	(mm)	120/127	135	
Spok		#13/#14	#13/#14	
	28H	7	-	
Spoke hole	32H		1	
	36H	1	1	
	Others	-		
	182	-	-	
	184		•	
Axle length (mm)	187			
	193	1504-747-	✓	
	Others	168/175/178 57.5	-	
	Flange distance (mm)		53.5	
Flange diar	neter (mm)	67.5	77.6	
Flange width (mm)	Right	2.3	3.2	
Offset (mm)		2.3 1.2 / 2.7(175mm	1.7	
		Axle)		
P.C.D Left/F	Right. (mm)	59	65	
Hub shell	material	Steel	Aluminum	
_	finish	Plated	Painted	
	veight (g)	1120	945	
No	ote	-	-	



### **Chain Tensioner**

Ser	ries	SHIMANO ALFINE	SHIMANO ALFINE
Mode	el no.	CT-S500	CT-S510
	1	Silver	-
Color	2	Black	-
	3	-	Silver&Black
Spe	eds	1	1
Compati	ble chain	CN-HG93 CN-HG73 CN-HG53	CN-HG73 (CS-S500) CN-HG53 (CS-S500) CN-HG71 (SM- GEAR)
Compatible cas	ssette sprocket	CS-S500	CS-S500 SM-GEAR
Max. front	difference	16T	-
Max. rear	sprocket	20T	20T (CS-S500) 23T (SM-GEAR)
Min. rear	sprocket	18T	18T (CS-S500) 16T (SM-GEAR)
Drop	oout	Vertical drop end type	Vertical drop end type
Direct att	tachment	-	-
Struc	Structure		Single pulley
Tensioner arm	Material	Aluminum	Aluminum
iensioner arm	Finish	Painted	Painted
No	ote		



#### ст

#### CS

#### L

### L

#### RB

#### ---

#### HR

#### cu.

#### EH

#### HP

# Cassette Sprocket

Se	ries	SHIMANO ALFINE	SHIMANO NEXUS	SHIMANO NEXUS
Mod	lel no.	CS-S500	CS-C7000	SM-GEAR
Chain Guard	with	✓	-	-
Chain Guard	without	<b>~</b>	1	1
	14T	-	-	- (2.3 mm) <b>√</b> (3.0 mm)
	16T	-	-	✓ (2.3 mm) ✓ (3.0 mm)
	18T	<b>√</b> (w/ and w/o guard)	-	✓ (2.3 mm) ✓ (3.0 mm)
	19T	-	-	✓ (2.3 mm) - (3.0 mm)
Company	20T	<b>√</b> (w/ and w/o guard)	-	✓ (2.3 mm) ✓ (3.0 mm)
Gear teeth	21T	-	-	✓ (2.3 mm) ✓ (3.0 mm)
	22T	-	-	✓ (2.3 mm) ✓ (3.0 mm)
	23T	-	-	✓ (2.3 mm) - (3.0 mm)
	24T	-	1	-
	27Т	-	1	-
	30T	-	1	
Gear thic	kness (mm)	2.0	2.3	2.3/3.0
	Super Narrow HG 9-speed	1	-	-
Recommended chain	HG 8-speed (1/2 inch x 3/32 inch)	-	1	✓ (2.3 mm)
	1/2 inch x 1/8 inch	-		✓ (3.0 mm)
	Material	Steel	Steel	Steel
Gear	Finish	Chrome plated	Manganese phosphate coated	Chrome plated / Manganese phosphate coated
N	ote		-	



# Shifting Lever

Ser	ries	SHIMANO ALFINE	SHIMANO ALFINE	SHIMANO ALFINE	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Mode	el no.	SL-S700	SL-S7000-8	SL-S503	SL-C6000-8	SL-7S50	SL-C3000-7
	1	Silver	Silver	Silver	Silver	Silver	Silver
Color	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	REVOSHIFT	RAPIDFIRE PLUS	REVOSHIFT
Top-N	ormal	1	1	-	-	-	-
Front	speeds	-	-	-	-	-	-
Rear s	peeds	11	8	8	8	7	7
Compatible rear o	derailleur/internal nub type	SG-S7001-11	SG-S7000-8 SG-S7001-8	SG-S501 NEXUS INTER-8	NEXUS INTER-8	NEXUS INTER-7	NEXUS INTER-7
Compatible fron	t derailleur type	-	-	-	-	-	-
Shifting lever	position adjust	-	-	-	-	-	-
Shifting leve	r cable adjust	1	1	1	1	_	1
Max. multiple shift	s (Main lever/rear)	2	1	1	7	1	6
	MULTI RELEASE	1	-	-	-	-	-
Release function	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	1	1	1	-	1	-
	with	Above handlebar	Above handlebar	Above handlebar	Window	Window	Window
OPTICAL GEAR DISPLAY	with (removable)	-	-	-		-	-
	without	-	-	-	-	-	-
Multi-Bearing	construction	-	-		-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Resin	Aluminum	Resin
bračket	Finish	Painted	Painted	Painted	Resin	Painted	Resin
Main lever body	Material	Steel & Resin	Steel & Resin	Steel & Resin	-	Steel & Resin	-
Main lever body	Finish	-	·	-	-	-	-
Release lever body	Material	Steel & Resin	Steel & Resin	Steel & Resin	-	Steel & Resin	-
nelease level body	Finish	-	-		-	-	-
Page gaver	Material	Resin	Resin	Resin	Resin	Resin	Resin
Base cover	Finish	-	-	-	-	-	-
Chifting lover cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Shifting lever cable	Finish	-	-	-	-	-	-
Recommended shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Clamping Dia	ameter (mm)	22.2	22.2	22.2	22.2	22.2	22.2
Average v	veight (g)	-	-	-	-	-	-

SG

СТ

CS

SL .

01

BR

...

FH

ELL

HP

# Shifting Lever

Ser	ies	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Mode	el no.	SL-C7000-5	SL-5S50	SL-5S30	SL-5S30-A	SL-3S42E	SL-C2010-3
	1	Silver	Silver	Silver	Silver	-	Black
Color	2	Black	Black	Black	Black	Black	-
	3	-	-	White	White	-	-
Shifte	r type	REVOSHIFT	RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT	REVOSHIFT	RAPIDFIRE PLUS
Top-N	ormal	1	-	-	-	-	-
Front s	speeds	-	-	-	-	-	-
Rear s	peeds	5	5	5	5	3	3
Compatible rear o	lerailleur/internal nub type	NEXUS INTER-5E	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-3	NEXUS INTER-3
Compatible fron	t derailleur type	-	-	-	-	-	-
Shifting lever	position adjust	-	-	-	-	-	-
Shifting leve	cable adjust	✓	✓	✓	1		1
Max. multiple shift	s (Main lever/rear)	4	1	4	4	2	1
	MULTI RELEASE	-	-	-	-		-
Release function	INSTANT RELEASE	=	-	-	1	-	-
	2-WAY RELEASE	-	-	-	-		-
	with	Window	Window	Window	Window	Window	Below handlebar
OPTICAL GEAR DISPLAY	with (removable)	-	-	-		-	-
	without	-	-	-	-	-	-
Multi-Bearing	construction	-	-	-	-	-	-
Shifting lever bracket	Material	Resin	Aluminum	Resin	Resin	Resin	Aluminum
bracket	Finish	Resin	Painted	Resin	Resin	Resin	Painted
Main lever body	Material	-	-	-	-	-	Steel & Resin
Wall level body	Finish	-		-	-	-	-
Release lever body	Material	-	-	-	-	-	Steel & Resin
Release level body	Finish	-	-		-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	-
Buse cover	Finish		-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel
	Finish	-)	-	-	-	-	-
Recommended shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP40	SP outer for IHG
Clamping Dia	ameter (mm)	22.2	22.2	22.2	22.2	22.2	22.2
Average v	veight (g)	-	-	-	-	-	-
No	ote	w/ Rubber bellows spec. is available					

# Shifting Lever

Ser	ries	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Mode	el no.	SL-3S41E	SL-3S35E	SL-3S58	SL-3S42	SL-3S43	SL-3S90
	1	-	-	Silver	Silver	Silver	Gray
Color	2	Black	Black	Black	Black	Black	Black
	3	-	-	White	-	White	-
Shifte	r type	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	Piano-touch
Top-N	ormal	-	-	-	-	-	-
Front	speeds	-	-	-	-	-	-
Rear s	peeds	3	3	3	3	3	3
Compatible rear o	lerailleur/internal nub type	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3
Compatible fron	t derailleur type	-	-	-	-	-	-
Shifting lever	position adjust	-	-	-	-	-	-
Shifting leve	r cable adjust	-	-	-	-		-
Max. multiple shift	s (Main lever/rear)	2	2	2	2	2	2
	MULTI RELEASE	-	-	-	-	-	-
Release function	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-		-
	with	Window	Dial	Window	Window	Window	Dial
OPTICAL GEAR DISPLAY	with (removable)	-	-	-		-	-
	without	-	-	-	-	-	-
Multi-Bearing	construction	-	-	-	-	-	-
Shifting lever	Material	Resin	Aluminum	Resin	Resin	Resin	Steel
bračket	Finish	Resin	Painted	Resin	Resin	Resin	Painted
Main lever body	Material	-	·	-	-	-	Steel & Resin
Main level body	Finish	-		-	-	-	-
Polosco lovor body	Material	-	-	-	-	-	Steel & Resin
Release lever body	Finish	-	-		-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
pase cover	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
Jimany level cable	Finish	-	)-	Standard	Standard	Standard	Standard
Recommended shifti	ng lever outer casing	OT-SP40	OT-SP40	OT-SP40	OT-SP40	SP outer for IHG	SP outer for IHG
Clamping Dia	ameter (mm)	22.2	22.2	22.2	22.2	22.2	22.2
Average v	veight (g)	-	-	-	-	-	-

SG

СТ

CS

L

BL

3L

R

\D

FC

HB

FH

FH

TP.

Note

# Shifting Lever

Ser	SHIMANO NEXUS		
Mode	SL-3S91J		
	1	-	
Color	2	-	
	3	White	
Shifte	r type	Piano-touch	
Top-N	ormal	-	
Front	speeds	-	
Rear s	peeds	3	
Compatible rear o	lerailleur/internal nub type	NEXUS INTER-3	
Compatible fron	t derailleur type	-	
Shifting lever	position adjust	-	
Shifting leve	r cable adjust	-	
Max. multiple shift	s (Main lever/rear)	2	
	MULTI RELEASE	-	
Release function	INSTANT RELEASE	-	
	2-WAY RELEASE	-	
	with	Dial	
OPTICAL GEAR DISPLAY	with (removable)	-	
	without	-	
Multi-Bearing	construction	-	
Shifting lever	Material	Steel	
bračket	Finish	Painted	
Main laves bade	Material	Steel & Resin	
Main lever body	Finish	-	
Pologo lever heat	Material	Steel & Resin	
Release lever body	Finish	-	
Page cover	Material	Resin	
Base cover	Finish		
Chifting layer schla	Material	Steel	
Shifting lever cable	Finish	Standard	
Recommended shifti	ng lever outer casing	SP outer for IHG	
Clamping Dia	22.2		
Average v	veight (g)	-	
No			



# Brake Lever (Hydraulic Disc Brake)

Ser	Series					
Mode	BL-S7000					
Brake	type	Hydraulic disc brake				
Lever size	e (finger)	3				
	1	Series Black				
Color	2	Series Silver				
	3	-				
Brake h	ose (Kit)	SM-BH59-JK-SS				
Hose	joint	Straight				
Brake hose color	1	Black				
(Kit)	2	-				
Recommended	d brake caliper	BR-S7000				
o	il	SHIMANO Mineral				
Funnel b	oleeding	1				
Barah adiasa	Toolless	-				
Reach adjust	Tool	1				
Free stro	ke adjust	-				
SERVO	WAVE	-				
	Open clamp	1				
Clamp band	I-SPEC	-				
	I-SPEC II	1				
Clause half	Material	Stainless steel				
Clamp bolt	Finish	-				
Brake lever	Material	Aluminum				
ргаке lever	Finish	Anodized				
Mostor sulindar	Material	Aluminum				
Master cylinder	Finish	Painted				
Average v	veight (g)	-				
No	J-Kit spec available					



URBAN

SG

СТ

.5

L

L

-

---

FH

HP

### Brake Lever

Sei	ries	SHIMANO NEXUS	
Mode	BL-C6010		
	1	Silver (C6000)	
Color	2	Silver (C3000)	
	3	Black	
	V-BRAKE	✓	
	Mechanical disc brake (MTB)	-	
	Mechanical disc brake (Road)	-	
Compatible brake type	Caliper (NEW SUPER SLR)	-	
	Caliper (SUPER SLR)	-	
	Canti brake	-	
	Roller brake	✓	
Recommended	V-BRAKE	SM-PM40	
Recommended POWER MODULATOR	Mechanical disc brake (MTB)	-	
	Open clamp band	-	
Clamp band	I-SPEC	-	
	Diameter (mm)	22.2	
Internal bu	ımper stop	<b>✓</b>	
Lever siz	e (finger)	4	
Brake ca	ble type	T-type	
Power a	adjuster	-	
SERVO	WAVE	-	
Reach	adjust	✓	
Cable	adjust	1	
Cable ad	just type	Two hand	
Droko lavar	Material	Aluminum	
Brake lever	Finish	Anodized	
Brake bracket	Material		
brake bracket	Finish	Painted	
No	* Brake lever ratio is different from BL-C6000 for better performance with BR-C6000, C3000		

# Brake (Hydraulic Disc Brake)

Sei	SHIMANO ALFINE		
Mode	el no.	BR-S7000	
Brake	Brake type		
	1	Series Black	
Color	2	Series Silver	
	3	-	
Brake h	ose (Kit)	SM-BH59-JK-SS	
Hose	joint	Straight	
Brake hose color	1	Black	
(Kit)	2	-	
ICE TECHNOLOGIE cali	S pad compatible per	-	
	Standard 1	G03S Resin	
Brake Pad	Standard 2	- /	
Diake rad	Option 1	-	
	Option 2	-	
	10 mm mount	-	
4	15 mm mount	-	
Fixing bolt spec for rear mount	20 mm mount	-	
	25 mm mount		
	30 mm mount	-	
	35 mm mount	-	
Recommende	d brake lever	BL-S7000	
Recommended	disc brake rotor	SM-RT64 SM-RT66	
O	oil	SHIMANO Mineral	
ONE WAY	BLEEDING	✓	
Moun	t type	Post-type	
Pis	ton	2	
Piston r	material	Resin	
	MONO-BODY	-	
Caliper	Material	Aluminum	
	Finish	Painted	
	Material	Steel	
Caliper fixing bolt	Tool size	5 mm	
	Anti loosen method		
Pad n	Pad mount		
Average v	weight (g)	-	
No	ote	J-Kit spec available	

# Brake (Roller Brake)

Sei	ries	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Mode	el no.	BR-C6060-F	BR-C6000-F	BR-C6000-F-DX	BR-C6000-R	BR-C6000-R-DX	BR-C3010-F
Fro	ont	✓	1	1	-	-	1
Re	ear	-	-	-	1	1	-
Structu	re type	Hyper	Hyper	Hyper	Hyper	Hyper	Normal
Braking po	ower ( *1 )	1.7	1.5	1.5	1.2	1.2	1.2
Cooling fin d	iameter (mm)	138	150	150	150	150	140
Heat dissip	ation ( *1 )	1.4	1.4	1.4	1.4	1.4	1.2
Without o	ooling fin	-	-	-	-	-	-
With POWER MOI	OULATOR function	1	-	-	-	-	-
	26-28 inch	-	✓	1	✓	✓	✓
	660-712 mm	1	-	-	-	-	-
	20-28 inch	-	-	-	-	-	-
Wheel size (inch) / Outer diameter of tire (mm)	16-28 inch	-	-	-	-	-	-
die (iiiii)	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	16-20 inch	-	-	-	-	-	-
	More than 26 inch High	-	1	1	-		-
	More than 26 inch Standard	-	-	-	·	-	✓
Roller brake modulator grade	20-24 inch	-	-			-	-
modulator grade	Range of overall allowable mass for modulator (kg) ※mass = bicycle+rider+lugga ge	100-130	-			-	-
Inner cable o	quick release	✓	✓	1	1	✓	✓
*1 Performance in C3000-R brake unit a 1. Testing	ote dex rating uses BR- s a reference value of condition.	Except Japan market					

Ser	ies	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Mode	el no.	BR-C3010-R	BR-C3000-F	BR-C3000-F-DX	BR-C3000-R	BR-C3000-R-DX	BR-IM31-R
Fro	ont		1	1	-	-	-
Re	ar	1		-	✓	✓	<b>~</b>
Structu	re type	Normal	Normal	Normal	Normal	Normal	Normal
Braking po	ower ( *1 )	1	1.2	1.2	1	1	0.9
Cooling fin di	ameter (mm)	140	122	122	122	122	90
Heat dissip	ation ( *1 )	1.2	1.0	1.0	1.0	1.0	Less than 1
Without c	ooling fin	-	-	-	-	-	Available
With POWER MOD	OULATOR function	-	-	-	-	-	-
	26-28 inch	<b>*</b>	1	1	✓	✓	1
	660-712 mm	-	-	-	-	-	-
Miles al aire (in als) /	20-28 inch	-	-	-	-	-	-
Wheel size (inch) / Outer diameter of tire (mm)	16-2 <mark>8 inch</mark>	-	-	-	-	-	-
tire (iliili)	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	16-20 inch	-	-	-	-	-	-
	More than 26 inch High	-	-	-	-	-	-
	More than 26 inch Standard	-	✓	1	-	-	-
Roller brake modulator grade	20-24 inch	-	-	-	-	-	-
modulator grade	Range of overall allowable mass for modulator (kg) ※mass = bicycle+rider+lugga ge	-	-	-	-	-	-
Inner cable o	uick release	1	1	1	1	1	-
*1 Performance inc C3000-R brake unit as 1. Testing	te dex rating uses BR- s a reference value of condition.						

### Crankset

Series		SHIMANO ALFINE	SHIMANO NEXUS	
Mode	el no.	FC-S501	FC-C6000	
	1	Silver	Silver	
Color	2	Black	Black	
Rear s			(Internal geared hub)	
	Super Narrow HG for	_		
Campatible abain	11-speed Super Narrow HG for 9-speed	✓ (CN-HG93, CN- HG53)	-	
Compatible chain	HG 8-speed (1/2 inch	паээ)	✓ (CN-HG71)	
	x 3/32 inch) 1/2 inch x 1/8 inch	-	✓ (CN-NX10)	
	1/2 IIICII X 1/6 IIICII	49.2 (double chain	<b>▼</b> (CIV-IV×10)	
Chain li	ne (mm)	guard) 42.7 (single chain guard)	44	
P.C.D. Left/Right (mm)		130	-	
Spider/Gear arms Chainring combination		5	-	
		45T/42T/39T	38T/33T	
<b>Q-та</b>	ctor 165	_	_	
	167.5	_	-	
	170	1	1	
Crank arm length	172.5	-	-	
(mm)	175	-	-	
	177.5	-	-	
	180	-	-	
Optional chain guard		√ (double)	-	
-	without chain guard	-	✓	
HOLLOWTECH II		-	-	
2-PIECE CRANKSET		1	-	
HOLLOWTEC		-	-	
OCTA		-	-	
HOLLO\	Outboard	-	-	
Compatible bottom	OCTALINK	-	-	
bracket type	Square	-	1	
	Threaded (normal)	_	-	
Recommended	Threaded (chain case)	-	BB-UN300-K	
bottom bracket	Pressfit	-	-	
Axle length of BB-	Threaded (normal)	-		
UN/ES (mm)	Threaded (chain case)	-	-	
Threaded bottom	68	✓	1	
bracket shell width (mm)	70	-		
Chain case	compatible	-	1	
Crank arm	Material	Aluminum	Aluminum	
Crank ann	Finish	Anodized/Painted	Painted	
Crank axle	Material	-	-	
	Finish	-	-	
Spider arm	Material Finish	-	-	
	Material			
Spider arm cover	Finish			
	Material	Aluminum	Steel	
Outer ring	Finish	Anodized	Black	
Middle ::	Material		-	
Middle ring	Finish		-	
Inner ring	Material		-	
	Finish		-	
Outer/middle ring fixing bolt	Material	-	-	
maning boil	Finish Material		-	
Inner ring fixing bolt	Finish		-	
	Material	Aluminum	Resin	
	Finish	Anodized	Painted	
	Diameter (mm) 45T	200	-	
Chain guard 1	Diameter (mm) 42T	190	-	
	Diameter (mm) 39T	174	-	
	Diameter (mm) 33T	-	95.4	
	Material	Resin	-	
	Finish	-	-	
Chain guard 2	Diameter (mm) 45T	200	-	
J	Diameter (mm) 42T	190	-	
	Diameter (mm) 39T	174	- 05.4	
Crank fixing	Diameter (mm) 33T	-	95.4 <b>√</b>	
Average weight (a) (	170 mm. w/o hottom	•	•	
brac	170 mm, w/o bottom ket)			
No			t: Chain case thickness * Both of spec with bolt and spec w/o bolt are available.	



# Front Hub (Roller Brake)

Se	ries	SHIMANO NEXAVE	SHIMANO NEXUS
Mod	el no.	HB-IM70-NT	HB-IM40
	1 Hub Shell	Silver	Silver
	1 Quick release	Silver	-
Color	2 Hub Shell	-	-
	2 Quick release	-	-
Brake	type	Hub roller brake	Hub roller brake
	28H	÷	-
Snoke heles	32H	-	-
Spoke holes	36H	<b>~</b>	✓
	Others	-	-
P.C.D. (mm)		70	52
O.L.D. (mm)		100/105	100
Flange distance (mm)		56.8	61.5
Offset	Offset (mm)		4.3
	26-28 inch	✓	✓
	660-712 mm	-	-
Market all allers (in all ) (	20-28 inch	-	-
Wheel size (inch) / Outer diameter of tire (mm)	16-28 inch	-	-
,	24-28 inch	-	-
	20-24inch	-	-
	16-20 inch	-	-
	More than 26inch High	✓	
Roller brake modulator grade	More than 26inch Standard	-	1
	20-24inch	-	-
Axle fixin	g method	Nut	Nut
	Axle length 140 mm	<b>√</b> (M9)	<b>√</b> (M9)
Axle (Nut type)	Axle length 145 mm	<b>√</b> (M9)	
	Material	Steel	Steel
Se	eal	1	✓
Hub shell	Material	Aluminum	Aluminum
Hub sileli	Finish	Clear Painted	Machined
Structure (Br	aking power)	Hyper	Normal
Neces			



3L

3L

BR

пь

FΗ

H

HP

# FREEHUB (Roller Brake)

Se	ries	SHIMANO NEXAVE	SHIMANO	SHIMANO	SHIMANO
Mod	el no.	FH-IM70	FH-IM20	RH-IM10	RH-IM11
	Hub shell	Silver	Silver	Silver / Black	Silver
Color	Quick release lever	-	-	-	-
	28H	-	1	1	1
	32H	1	-	1	1
Spoke holes	36H	1	1	1	1
	Others	-	-	-	-
	P.C.D. (mm)	45	45	45	74
	Speeds	8/9	7	-	-
rossium barb	11T compatible	1	1	-	-
FREEHUB body	Roller clutch	Roller Clutch	-	-	-
	Material	Steel	Steel	Steel	Steel
O.L.D	. (mm)	135	134.7	129.5 (6-speed) 130.0 (7-speed)	132.7 (6-speed) 134.7 (7-speed)
Flange diameter (mm)		53.8	54	54	84
Flange dis	tance (mm)	60	61.2	54.1	57.1
Dish	(mm)	6.8	5.85	5.35 (6-speed) 7.1 (7-speed)	6.9 (6-speed) 7.9 (7-speed)
Axle fixin	g method	Nut	Nut	Nut	Nut
	Quick release Skewer Length	-	-	-	-
Axle (quick release type)	Length (mm)	-	-	· ·	-
	Material	-	-		-
Axle (nut type)	Length left/right (mm)	185	194/202	180/200	18 <mark>0/18</mark> 5/192/200/ 204
31.7	Material	Steel	Steel	Steel	Steel
	Hub	1	-	-	-
Seal	Freewheel	1	-	-	-
	Material	Aluminum	Steel	Steel	Steel
Hub shell	Finish	Anodized	Chrome plated	Plated	Plated
No	ote			For 6/7-speed multiple free wheel	For 6/7-speed multiple free whe



### FREEHUB (Band Brake)

Sei	ries	SHIMANO	
Mode	el no.	FH-S028	
	Hub shell	Black	
Color	Quick release lever	-	
	28H	1	
	32H	-	
Spoke holes	36H	1	
	Others	-	
	P.C.D. (mm)	45	
	Speeds	Single speed	
EDECLIUD by de	11T compatible	-	
FREEHUB body	Roller clutch	-	
	Material	Steel	
O.L.D.	O.L.D. (mm)		
Flange diar	55		
Flange dist	tance (mm)	51.5	
Dish	(mm)	1.8	
Axle fixin	g method	Nut	
Andre Constallered and	Quick release Skewer Length	-	
Axle (quick release type)	Length (mm)	-	
	Material	-	
Axle (nut type)	Length left/right (mm)	165/170/180/185/ 192	
	Material	Steel	
Seal	Hub	-	
Jeai	Freewheel	-	
Hub shell	Material	Steel	
nub sileli	Finish	Plated	
No	for band brake		



Sei	SHIMANO NEXUS		
Mode	el no.	HP-NX10	
Color	1	Black	
Color	2	-	
A (r	A (mm)		
B (r	B (mm)		
Front fork ste	m thread Size	BC 1 inch x 24 T.P.I.	
C (r	nm)	Max. ø38	
D (r	D (mm)		
Head tub	Steel		
No	ote		





	Page	
Chain	198	CN
Chain	190	CN
Chain QUICK-LINK	199	SMCN
Disc Brake Rotor	200	RT
Disc Brake Hose	202	вн
Disc Brake Rotor Adapter	203	RTAD
Outer Casing	203	ОТ
Cable Adjuster	204	SMCB SMCA
POWER MODULATOR	204	RM
Hub Dynamo	205	DH
Light	210	LP
E-THRU Axle (AX)	212	SMAX
Cycle Computer	214	SC
Pedal (SPD)	215	PD
Pedal (CLICK'R)	217	PD
Pedal (Flat Pedal)	218	PD
Pedal (SPD-SL)	219	PD

### Chain

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIWANU
Model no.	CN-M9100	CN-M8100	CN-M7100	CN-M6100	CN-E8000-11	CN-HG901-11
Туре	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG-X11	HG-X11
E-BIKE rear derailleur system compatible	✓	✓	1	✓	✓	✓
Pin link plate	SIL-TEC	Gray	Gray	Gray	SIL-TEC	SIL-TEC
Roller link plate	Chromizing	Chromizing	SIL-TEC	Brown	Chromizing	SIL-TEC
Roller	SIL-TEC	-	-	-	-	SIL-TEC
Chromizing treatment roller link pin	✓	1	1	✓	✓	1
Hollow pin	1	-	-	-	-	1
Average weight (g) (114 links)	242	252	252	252	257	247
Note	QUICK-LINK	QUICK-LINK	QUICK-LINK	QUICK-LINK		

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO ULTEGRA
Model no.	CN-HG701-11	CN-HG601-11	CN-E6090-10	CN-HG95	CN-HG54	CN-6701
Туре	HG-X11	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 10-speed
E-BIKE rear derailleur system compatible	✓	✓	1	-	-	-
Pin link plate	SIL-TEC	Gray	SIL-TEC	SIL-TEC	Gray	Zinc-Alloy Plated
Roller link plate	SIL-TEC	SIL-TEC	SIL-TEC	SIL-TEC	Brown	Gray
Roller	-	-	-		-	-
Chromizing treatment roller link pin	✓	✓		1	1	✓
Hollow pin	-	-		-	-	-
Average weight (g) (114 links)	257	257	276	273	273	267
Note						

Series	SHIMANO ULTEGRA	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CN-6600	CN-HG93	CN-E6070-9	CN-HG53	CN-HG71	CN-HG40
Туре	HG 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG	HG
E-BIKE rear derailleur system compatible		-	1	-	-	-
Pin link plate	Zinc-Alloy Plated	Zinc-Alloy Plated	Gray	Gray	Silver	Gray
Roller link plate	Gray	Gray	Gray	Brown	Gray	Brown
Roller			-	-	-	-
Chromizing treatment roller link pin	1	1	1	1	✓	-
Hollow pin	-	-	-	-	-	-
Average weight (g) (114 links)	273	299	276	299	324	324
Note	For triple					

Series	SHIMANO NEXUS
Model no.	CN-NX10
Туре	Single speed 1/2 inch x 1/8 inch
E-BIKE rear derailleur system compatible	-
Pin link plate	-
Roller link plate	=
Roller	-
Chromizing treatment roller link pin	-
Hollow pin	-
Average weight (g) (114 links)	-
Note	

# Chain QUICK-LINK

Series	SHIMANO	SHIMANO
Model no.	SM-CN910-12	SM-CN900-11
E-BIKE rear derailleur system compatible	1	✓
Туре	HG 12-speed	HG 11-speed
Pin link plate	Ni-plating	Ni-plating
Roller link plate	-	-
Roller	-	-
Chromizing treatment link pin	✓	<b>*</b>
Hollow pin	-	-
Note	QUICK-LINK for HG 12-speed chain	QUICK-LINK for HG 11-speed chain



CN

SMCN

T

BH

RTAD

O-T

SMCB SMCA

RM

----

DH

LP

SMAX

SC

PD

### Disc Brake Rotor

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Mode	Model no.		RT-MT900	RT-MT800	SM-RT900	SM-RT800	SM-RT86	SM-RT70
CENTE	R LOCK		✓	1	1	✓	-	1
6-bolt (P.C	.D. 44 mm)		-	-	-	-	1	-
ICE TECHI	NOLOGIES		✓	1	1	1	1	1
ICE TECHNOL	OGIES FREE	ZA	1	1	1	1	-	-
	203	mm	✓	1	-	-	✓	✓
Outside diameter	180	mm	<b>~</b>	1	-	-	✓	1
Outside diameter	160	mm	✓	1	1	1	✓	✓
	140	mm	<b>✓</b>	1	1	1	-	1
Alloy lo	ock ring		<b>√</b>	1	1	1	✓	-
Adapter	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Adapter	Fin	ish	Painted	Painted	Anodized	Painted	Painted	Painted
Rotor	Material Finish		Stainless steel + Aluminum + Stainless steel	Stainless steel + Aluminum + Stainless steel	Stainless steel + Aluminum + Stainless steel	Stainless steel + Aluminum + Stainless steel	Stainless steel + Aluminum + Stainless steel	Stainless steel + Aluminum + Stainless steel
			Polished	Polished	Polished	Polished	Polished	Polished
Pad material	Me	etal	<b>✓</b>	1	1	1	>	1
compatibility	Re	sin	<b>√</b>	1	1	<b>✓</b>	1	1
Pad lining shape	Nar	row	✓	1	1	1	1	1
compatibility	Wi	de	-	-	-	-		-
	Internal	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	Steel
	type	Finish	Anodized	Anodized	Anodized	Anodized		Plated
Lock ring	External	Material	Aluminum	Aluminum	-		-	Steel
2009	type	Finish	Anodized	Anodized	-	•	-	Plated
	Internal/ External	Material	-	-			-	-
	type	Finish	-	-	-	-	-	-
Average weight (g) (w/o lock ring)		150 (203 mm) 132 (180 mm) 108 (160 mm) 88 (140 mm)	163 (203 mm) 132 (180 mm) 108 (160 mm) 88 (140 mm)	117 (160 mm) 99 (140 mm)	128 (160 mm) 108 (140 mm)	187 (203 mm) 154 (180 mm) 135 (160 mm)	193 (203 mm) 159 (180 mm) 133 (160 mm) 121 (140 mm)	
No	ote		Painted fin	-	Painted fin	-	With anti loosen tightening plate	-

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Mod	Model no.		SM-RT76	SM-RT66	SM-RT64	SM-RT500	SM-RT56	SM-RT54
CENTE	R LOCK		-	-	1	1	-	1
6-bolt (P.C	.D. 44 mm)		1	1	-	-	1	-
ICE TECH	NOLOGIES		-	-	-	1	-	-
ICE TECHNOL	OGIES FREE	ZA			-	-	-	-
	203	mm	1	1	✓	-	-	-
Outside diameter	180	mm	1	✓	✓	-	✓	✓
Outside diameter	160	mm	1	1	✓	-	✓	✓
	140	mm		-	-	1	-	-
Alloy l	ock ring		-	-	-	1	-	-
Adapter	Mat	erial	Aluminum	-	Aluminum	Aluminum	-	Aluminum
Adapter	Fin	nish	Painted	-	Painted	Painted	-	Painted
Rotor	Material Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel + Aluminum + Stainless steel	Stainless steel	Stainless steel
	Fin	nish	Polished	Polished	Polished	Polished	Polished	Polished
Pad material	Me	etal	1	1	1	1	-	-
compatibility	Re	sin	1	1	1	1	1	1
Pad lining shape compatibility	Nar	row	✓	1	1	1	1	✓
compatibility	W	ide	-	-	-	-	1	1
	Internal	Material	-	-	Steel	Allminum	-	Steel
	type	Finish	-	-	Plated	Anodized	-	Plated
Lock ring	External	Material	-	-	Steel	-	-	Steel
LOCK HING	type	Finish	-	-	Plated	-	-	Plated
	Internal/ External	Material	-	-	-	-	-	-
type Finish		-	-	-	-	-	-	
Average weight (g) (w/o lock ring)		k ring)	209 (203 mm) 169 (180 mm) 141 (160 mm)	-	-	103	-	-
N	ote		With anti loosen tightening plate	With anti loosen tightening plate	-	-	With anti loosen tightening plate	-

### Disc Brake Rotor

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		SM-RT30	SM-RT26	SM-RT10	SM-RTC60	
CENTE	R LOCK		✓	-	1	-
6-bolt (P.C	.D. 44 mm)		-	1	-	-
ICE TECHI	NOLOGIES		·	-	-	-
ICE TECHNOL	OGIES FREE	ZA	-	-	-	-
	203	mm	✓	-	-	-
Outside diameter	180	mm	<b>✓</b>	1	1	-
Outside diameter	160	mm	✓	1	1	1
	140	mm	-	-	-	-
Alloy lo	ock ring		-	-	-	-
Adapter	Mat	erial	Stainless steel	-	Steel	Steel
Adapter	Fin	ish	Painted	-	Painted	Painted
Rotor	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel
KOTO	Fin	ish	Polished	Polished	Polished	Polished
Pad material	Me	etal	ı	-	-	1
compatibility	Re	sin	✓	1	✓	1
Pad lining shape compatibility	Nar	row	✓	1	1	✓
compatibilitý	w	ide	✓	1	1	-
	Internal	Material	·	-	-	-
	type	Finish	-	-	-	-
Lock ring	External	Material	-	-	-	-
Lock mig	type	Finish	-	-	-	
	Internal/ External	Material	Steel	-	Steel	
	type Finish		Painted	-	Painted	
Average weight (	(g) (w/o loc	k ring)	-	-	-	-
Note		-	With anti loosen tightening plate		Disc brake rotor is fixed by 5 bolts with 74 mm P.C.D.	



CN

SMCN

₹Т

\_\_\_\_

RTAD

OT

SMCB SMCA

RM

DH

LP

SIVIAX

SC

PD

ıν

PD

201

### Disc Brake Hose

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mod	el no.	SM-BH90-SB	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SBS	SM-BH90-SS	SM-BH59-JK-SS
	1	Black	Black	Black	Black	Black	Black
Color	2	White	-	-	White	White	White
	3	-	-	-	-	-	-
Hand Jakob	Brake lever	Straight	Straight	Straight	Straight	Straight	Straight
Hose joint	Brake caliper	Banjo	Banjo	Banjo	Banjo	Straight	Straight
Rigi	idity	High power	High power	High power	High power	High power	Standard
	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Length	Standard	Long	Standard	Standard	-	-
Banjo	Banjo bolt length	Long	Short	Long BR-M9120 spec. * BR-M8100 spec. *	Short	-	-
	Banjo bolt material	Steel	Steel	Steel	Steel	-	-
Connecting bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
No	ote			* Banjo bolt is not included.			

Ser	SHIMANO			
Mode	el no.	SM-BH59-SB		
	1	Black		
Color	2	White		
	3	-		
Hana inint	Brake lever	Straight		
Hose joint	Brake caliper	Banjo		
Rigi	dity	Standard		
	Material	-		
Paula	Length	-		
Banjo	Banjo bolt length	-		
	Banjo bolt material	-		
Connecting bolt	onnecting bolt Material			
No				



# Disc Brake Rotor Adapter

Sei	SHIMANO	
Mode	SM-RTAD05	
	1	Black
Color	2	-
	3	-
Lock ring	Туре	External serration
Lock ring	Material	Steel
Disc brake roto	mount method	Hexalobular bolts
	SM-RT86	-
	SM-RT76	-
Compatibility (Disc brake rotor)	SM-RT66	1
	SM-RT56	1
	SM-RT26	1
	Front 20 mm Thru	1
	Front 15 mm E- THRU	1
	Front 9 mm Quick release	1
Compatibility (Axle)	Rear 12 mm E- THRU	1
	Rear 12 mm Thru	1
	Rear 10 mm Thru	1
	Rear 10 mm Quick release	1
No	Use this disc brake rotor adapter to attach the 6-bolt mount type disc brake rotor to CENTER LOCK mount type hub. Cannot be used with the 6-bolt disc brake rotor that is installed with an aluminum adapter (SM-RT86/RT76).	



# **Outer Casing**

Se	eries	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Мос	del no.	OT-R5900	OT-SP41	OT-SP40	OT-SIS40
	Black	<b>V</b>	1	1	1
	White	1	✓	✓	1
	Yellow	-	1	-	-
Color	Red	✓	✓	-	-
Color	Blue	-	1	-	-
	Green	-	✓	-	-
	Orange	-	1	-	-
	High-tech gray	✓	✓	-	-
Outer	SP type	-	1	1	-
Outer	Coil type	1	-	-	1
Liner	Material	Polyethylene	Polyethylene	Polyethylene	Polyethylene
	Special grease	1	1	-	-
Cable grease	Premium grease	-	-	1	1
	Entirely greased	1	1	-	-
N	lote				

SMCN

RTAD

SMCB SMCA

KIVI

DH

SMAX

PD

PD

PD

# Cable Adjuster

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-CB90	SM-CB70	SM-CA70	SM-CA50
Shiftin	g cable	-	-	1	1
Brake	cable	1	1	-	-
Quick relea	Quick release function		-	-	-
Outer adjust bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum
Outer adjust boit	Finish	Anodized	Anodized	Anodized	Anodized
Po du	Material	Aluminum	Aluminum	Aluminum	Resin
Body	Finish	Anodized	Anodized	Anodized	-
Ouisk rologsa lavor	Material	Stainless steel	-	-	-
Quick release lever	Finish	-	-	-	-
No	te				

### **POWER MODULATOR**

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-PM70	SM-PM60	SM-PM50	SM-PM40
Modula	tor level	Standard	High*	Standard	Standard
Moun	t type	Lead pipe	Outer casing	Outer casing	Lead pipe
Available lead pipe	90 deg.	✓	-	-	1
angle	135 deg.	<b>~</b>	-	-	1
	V-BRAKE	<b>√</b> **	<b>/</b> **	-	<b>√</b> **
	Mechanical disc brake (MTB)	-	· \	<b>√</b> **	-
	Mechanical disc brake (Road)	-	-	-	-
Compatible Brake	Caliper (NEW SUPER SLR)	-	-	-	-
	Caliper (super SLR)		-	-	-
	Cantilever brake			-	-
	Roller brake	-	-	-	-
	V-BRAKE 4-finger	<b>√</b> ***	<b>√</b> ***	<b>√</b> ***	<b>√</b> ***
Compatible Brake	V-BRAKE 3-finger	<b>√</b> ***	<b>√</b> ***	<b>√</b> ***	<b>√</b> ***
Lever	V-BRAKE 2-finger	1	1	1	1
	Road	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum
Body	Finish	Anodized + Laser Marking	Barrel and Sticker	Barrel and Printed	Barrel and Sticker
Lead pipe	Material	Stainless steel	-	-	Stainless steel
Note		** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	* City use for Japan market ** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake

# **Hub Dynamo**

Ser	ies		SHIMANO	SHIMANO	SHIMANO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO
Mode	el no.		DH-UR708-3D	DH-UR705-3D	DH-UR700-3D	DH-T4050-1D	DH-T4000-1N	DH-F703-S
	StV	zo zo	✓ ·	✓	1	✓ <b>/</b>	✓ /	<b>√</b>
		GBi	-	-	-	-	-	-
Regulation	JIS		-	-	-	-	-	-
		ners	ISO	-	-	-	-	-
		Hub		Cibran	C:h.a.	Dlask	C:l	Cilver
	1	shell Quick	Silver	Silver	Silver	Black	Silver	Silver
Color		release lever	-	-	Silver	Black	-	Black
20.0.		Hub shell	Black	Black	Black	-	Black	-
	2	Quick release lever	-	-	Black	-	-	Black
Ту	pe		Disc brake	Disc brake	Disc brake	Disc brake	Regular	Regular
CENTER LOCK	Mount typ	ре	✓	✓	1	1	-	-
Voltag	ge (V)		6	6	6	6	6	6
Outpu	ıt (W)		3	3	3	1.5	1.5	3
·	26-28	3 inch	1	1	1	A		-
		3 inch	-	-	-		-	-
		3 inch	-	-	-	1		-
		inch	-	-	-	-		<u>-</u>
Wheel size		inch	-	-	-	-		-
		l inch	-	-			-	-
		) inch	<u>-</u>				-	<b>√</b>
	Compatible wheel size (mm)		(646-716)	(646 - 716)	(646 - 716)	(448 - 716)	(448 - 716)	(400 - 536)
O.L.D.		( <b>,</b>	100	100	100	100	100	74
Axle leng			100	100	108	108	108	82
Spoke			#14	#14	#14	#14	#14	#14
эрок		IН	-	#14	-	-	-	#1 <del>-</del>
		BH	<u>-</u>			-	_	1
Spoke hole								-
		2H	1		1	1	1	-
		Н	1	7	1	<b>/</b>	<b>/</b>	
Axle fixin			15 mm E-THRU	12 mm E-THRU *	Quick release	Quick release	Quick release	Quick release
Quick release skewer length		mm	-	-		-	-	-
		mm	-	-	1	1	1	1
Thru Axle (Length x Inner diameter ;		x 12		1	-	-	-	-
mm)	100	x 15	1	-	-	-	-	-
Flange Dist			52	52	52	51	56.0	44.6
Offset			3.5	3.5	3.5	1.9	0	0
P.C.D. Left/			62	62	62	67	67	74
Se			Single contact	Single contact	Single contact	Single contact	Single contact	Single contact
Roller brake	More than 26	High	-	-	-	-	-	-
Roller brake modulator grade	inch	Standard	-	-	-	-	-	-
		linch	-	-	-	-	-	-
	J1 t			-	-	-	-	-
Electric power output connector	J2 t		-	-	-	-	-	-
output connector	_	уре	✓	1	1	<b>√</b>	1	✓
	Oth	ners	-	-	-	-	-	-
Hub shell		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
		ish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Axle		erial	-	-	Aluminum	Steel	Steel	Steel
	Fin	ish	-	-	Chromated	Zinc plated	Zinc plated	Zinc plated
Quick release lever	Mat	erial	-	-	Aluminum	Aluminum	Aluminum	Aluminum
Zaren refease level	Fin	ish	-	-	Anodized	E-Coating	E-Coating	Anodized
Ouisk rolooso	Mat	erial	-	-	Aluminum	Steel	Steel	Aluminum
Quick release	Fin	ish	-	-	Anodized	E-Coating	E-Coating	Anodized
Quick release housing			-	-	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Mat	erial						
housing  Quick release nut	Mat	erial ish	-	-	-	-	-	-
	Mat Fin			- 450	- 476 (w/o QR)	565	580	590
Quick release nut	Mat Fin veight (g)		-					

CN

SMCN

RT BH

RTAD

ОТ

SMCB SMCA

RM

DH

LP

SMAX

SC

Fυ

PD

# **Hub Dynamo**

Ser	ies		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO ALFINE
Mode	el no		DH-3D72	DH-3D37-QR	DH-3D32-QR	DH-3D32-NT	DH-3N72	DH-S501
Wood	StV	70	J11-3072 ✓	√	<i>V</i>	J11-3J32-N1	J11-3N72 ✓	✓
	TPO		1	<u> </u>	-	-	-	-
Regulation	JI		-	<u> </u>	-		-	
	Oth		-		-	<u>-</u>	-	
		Hub						
	1	shell	Silver	Silver	Clear	Clear	Silver	Silver
Color		Quick release lever	Silver	-	-	-	Silver	Silver
	2	Hub shell	Black	Black	Black	Black	Black	Piano Black
	Quick release lever		Black	-	-	-	Silver	Silver
Туре			Disc brake	Disc brake	Disc brake	Disc brake	Regular	Disc brake
CENTER LOCK	Mount typ	ре	✓	1	-	-	-	1
Voltag	ge (V)		6	6	6	6	6	6
Outpu	ıt (W)		3	3	3	3	3	3
	26-28	inch	1	-	-	-	1	<b>1</b>
	20-28	3 inch	-	-	-	-	-	-
	18-28	3 inch	-	-	-	-		-
	16-28	3 inch	-	1	1	1	-	-
Wheel size	24-28	3 inch	-	-	-	-	-	-
	20-24	l inch	-	-	-,		-	-
	16-20 inch		-	-	-		-	-
	Compatible wheel size (mm)		(646 - 716)	(400 - 716)	(400 - 716)	(400 - 716)	(646 - 716)	(646 - 716)
O.L.D.	(mm)		100	100	100	100	100	100
Axle leng	jth (mm)		108	108	108	140	108	108
Spoke	size		#14	#14	#14	#14	#14	#14
	24H		-		7	-	-	-
	28	ВН	-	-	-	-	-	-
Spoke hole	32H		✓	1	1	J	1	1
	36H		1	1	1	1	1	✓
Axle fixin	g method		Quick release	Quick release	Quick release	Nut	Quick release	Quick release
Quick release	129	mm	-	-		-	-	-
Quick release skewer length	122	mm	1	1	1	-	1	1
	133							
Thru Axle (Length x	100	x 12		-	-	-	-	-
Thru Axle (Length x Inner diameter ; mm)				-	-	-	-	<u> </u>
Thru Axle (Length x Inner diameter ; mm) Flange Dist	100 100							
mm)	100 100 ance (mm)		·	-	-	-	-	-
mm) Flange Dist Offset	100 100 ance (mm) (mm)	x 15	52.1	- 51	- 51.1	- 51.1	60.0	- 52.1
mm) Flange Dist	100 100 ance (mm) (mm) Right (mm)	x 15	52.1 3.8	- 51 4	- 51.1 4	- 51.1 3.6	- 60.0 0	- 52.1 3.8
Flange Dist Offset P.C.D. Left/	100 100 ance (mm) (mm) Right (mm)	x 15	52.1 3.8 70	- 51 4 74	- 51.1 4 74	- 51.1 3.6 74	- 60.0 0 70	- 52.1 3.8 70
mm) Flange Dist Offset P.C.D. Left// Se Roller brake	100 100 ance (mm) (mm) Right (mm)	x 15	52.1 3.8 70	- 51 4 74	- 51.1 4 74	- 51.1 3.6 74	- 60.0 0 70 Single contact	52.1 3.8 70 Single contact
mm) Flange Dist Offset P.C.D. Left/	ance (mm) (mm) Right (mm) al More than 26 inch	x 15	52.1 3.8 70 Single contact	- 51 4 74 Single contact	- 51.1 4 74 Single contact	- 51.1 3.6 74 Single contact	- 60.0 0 70 Single contact	- 52.1 3.8 70 Single contact
mm) Flange Dist Offset P.C.D. Left// Se Roller brake	ance (mm) (mm) Right (mm) al More than 26 inch	x 15  High  Standard	- 52.1 3.8 70 Single contact	- 51 4 74 Single contact -	- 51.1 4 74 Single contact -	- 51.1 3.6 74 Single contact -	- 60.0 0 70 Single contact -	- 52.1 3.8 70 Single contact -
mm) Flange Dist Offset P.C.D. Left// Se Roller brake modulator grade	ance (mm) (mm) Right (mm) al More than 26 inch	High Standard I inch	- 52.1 3.8 70 Single contact	- 51 4 74 Single contact	- 51.1 4 74 Single contact	- 51.1 3.6 74 Single contact	- 60.0 0 70 Single contact	- 52.1 3.8 70 Single contact - -
mm) Flange Dist Offset P.C.D. Left// Se Roller brake	ance (mm) (mm) Right (mm) al More than 26 inch 20-24 J1 t	High Standard Linch ype ype	- 52.1 3.8 70 Single contact - -	- 51 4 74 Single contact	- 51.1 4 74 Single contact 	- 51.1 3.6 74 Single contact	- 60.0 0 70 Single contact	- 52.1 3.8 70 Single contact - - -
mm) Flange Dist Offset P.C.D. Left// Se Roller brake modulator grade	100 100 ance (mm) (mm) Right (mm) al More than 26 inch 20-24 J1 t L2 t	High Standard Linch ype ype	52.1 3.8 70 Single contact - -	- 51 4 74 Single contact	- 51.1 4 74 Single contact 	- 51.1 3.6 74 Single contact	- 60.0 0 70 Single contact	- 52.1 3.8 70 Single contact - - -
mm) Flange Dist Offset P.C.D. Left// Se Roller brake modulator grade	100 100 ance (mm) (mm) Right (mm) al More than 26 inch 20-24 J1 t L2 t	High Standard Linch ype ype ype	52.1 3.8 70 Single contact	- 51 4 74 Single contact	- 51.1 4 74 Single contact 	- 51.1 3.6 74 Single contact	- 60.0 0 70 Single contact	- 52.1 3.8 70 Single contact
mm) Flange Dist Offset P.C.D. Left// Se Roller brake modulator grade	100 100 ance (mm) (mm) Right (mm) al More than 26 inch 20-24 J1 t E2 t Oth	High Standard Linch ype ype ype	52.1 3.8 70 Single contact Aluminum Anodized & Painted/	- 51 4 74 Single contact	- 51.1 4 74 Single contact	- 51.1 3.6 74 Single contact	- 60.0 0 70 Single contact	- 52.1 3.8 70 Single contact
Roller brake modulator grade  Electric power output connector	100 100 ance (mm) (mm) Right (mm) al More than 26 inch 20-24 J1 t J2 t Ott Mat	High Standard Linch ype ype ers erial	52.1 3.8 70 Single contact Aluminum Anodized & Painted/ Anodized	- 51 4 74 Single contact Aluminum Painted	- 51.1 4 74 Single contact Aluminum Painted	- 51.1 3.6 74 Single contact Aluminum Painted	- 60.0 0 70 Single contact Aluminum Anodized & Painted	52.1 3.8 70 Single contact Aluminum Anodized
Roller brake modulator grade  Electric power output connector	100 100 ance (mm) (mm) Right (mm) al More than 26 inch 20-24 J1 t J2 t Oth Mat Fin	High Standard Linch ype ype ers erial	52.1 3.8 70 Single contact Aluminum Anodized & Painted/ Anodized Steel	- 51 4 74 Single contact Aluminum Painted Steel	- 51.1 4 74 Single contact Aluminum Painted Steel	- 51.1 3.6 74 Single contact Aluminum Painted Steel	- 60.0 0 70 Single contact Aluminum Anodized & Painted	52.1 3.8 70 Single contact Aluminum Anodized
Roller brake modulator grade  Electric power output connector  Hub shell	100 100 ance (mm) (mm) Right (mm) al More than 26 inch 20-24 J1 t J2 t Ct Mat Fin	High Standard Linch ype ype ers erial ish	52.1 3.8 70 Single contact Aluminum Anodized & Painted/ Anodized Steel Zinc plated	- 51 4 74 Single contact Aluminum Painted Steel Zinc plated	- 51.1 4 74 Single contact Aluminum Painted Steel Zinc plated	- 51.1 3.6 74 Single contact Aluminum Painted Steel Phosphate coated	- 60.0 0 70 Single contact Aluminum Anodized & Painted Steel Zinc plated	52.1 3.8 70 Single contact Aluminum Anodized Steel Zinc plated
Roller brake modulator grade  Electric power output connector  Hub shell  Axle	100 100 ance (mm) (mm) Right (mm) al More than 26 inch 20-24 J1 t J2 t E2 t Oth Mat Fin Mat	High Standard Linch yype yype erial ish erial	52.1 3.8 70 Single contact Aluminum Anodized & Painted/ Anodized Steel Zinc plated Aluminum	- 51 4 74 Single contact Aluminum Painted Steel Zinc plated Steel	- 51.1 4 74 Single contact Aluminum Painted Steel Zinc plated Steel	51.1 3.6 74 Single contact Aluminum Painted Steel Phosphate coated -	- 60.0 0 70 Single contact Aluminum Anodized & Painted Steel Zinc plated Aluminum	52.1 3.8 70 Single contact Aluminum Anodized Steel Zinc plated Aluminum
mm) Flange Dist Offset P.C.D. Left// Se Roller brake modulator grade  Electric power output connector  Hub shell  Axle  Quick release lever	100 100 ance (mm) (mm) Right (mm) al More than 26 inch 12 t 20-24 J1 t J2 t E2 t Oth Mat Fin Mat Fin	High Standard Linch ype ype erial ish erial ish	52.1 3.8 70 Single contact Aluminum Anodized & Painted/Anodized Steel Zinc plated Aluminum Anodized	- 51 4 74 Single contact Aluminum Painted Steel Zinc plated Steel Nickel plated	51.1  4  74  Single contact  Aluminum  Painted  Steel  Zinc plated  Steel  Nickel plated	- 51.1 3.6 74 Single contact Aluminum Painted Steel Phosphate coated	- 60.0 0 70 Single contact Aluminum Anodized & Painted Steel Zinc plated Aluminum Anodized	52.1 3.8 70 Single contact Aluminum Anodized Steel Zinc plated Aluminum Anodized
mm) Flange Dist Offset P.C.D. Left// Se Roller brake modulator grade  Electric power output connector  Hub shell  Axle  Quick release lever	100 100 ance (mm) (mm) Right (mm) al More than 26 inch 12 t 20-24 J1 t J2 t E2 t Oth Mat Fin Mat Fin Mat Hand	High Standard Linch ype yype ers erial ish erial ish erial	52.1 3.8 70 Single contact Aluminum Anodized & Painted/Anodized Steel Zinc plated Aluminum Anodized Aluminum Anodized Aluminum	- 51 4 74 Single contact Aluminum Painted Steel Zinc plated Steel Nickel plated Steel	- 51.1 4 74 Single contact Aluminum Painted Steel Zinc plated Steel Nickel plated Steel	- 51.1 3.6 74 Single contact Aluminum Painted Steel Phosphate coated	- 60.0 0 70 Single contact Aluminum Anodized & Painted Steel Zinc plated Aluminum Anodized Aluminum Anodized Aluminum	52.1 3.8 70 Single contact Aluminum Anodized Steel Zinc plated Aluminum Anodized Aluminum
Roller brake modulator grade  Electric power output connector  Hub shell	100 100 ance (mm) (mm) Right (mm) al More than 26 inch 20-24 J1 t L2 t Oth Mat Fin Mat Fin Mat Fin Mat Fin	High Standard Linch ype ype erial ish erial ish erial ish	52.1 3.8 70 Single contact Aluminum Anodized & Painted/Anodized Steel Zinc plated Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized	- 51 4 74 Single contact Aluminum Painted Steel Zinc plated Steel Nickel plated Steel Nickel plated	- 51.1 4 74 Single contact Aluminum Painted Steel Zinc plated Steel Nickel plated Nickel plated	- 51.1 3.6 74 Single contact Aluminum Painted Steel Phosphate coated	- 60.0 0 70 Single contact Aluminum Anodized & Painted Steel Zinc plated Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized	52.1 3.8 70 Single contact Aluminum Anodized Steel Zinc plated Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized
mm) Flange Dist Offset P.C.D. Left// Se Roller brake modulator grade  Electric power output connector  Hub shell  Axle  Quick release lever	100 100 ance (mm) (mm) Right (mm) al More than 26 inch 20-24 J1 t	High Standard I inch ype ype erial ish erial ish erial ish erial	52.1 3.8 70 Single contact Aluminum Anodized & Painted/Anodized Steel Zinc plated Aluminum Anodized Aluminum Anodized Aluminum	- 51 4 74 Single contact Aluminum Painted Steel Zinc plated Steel Nickel plated Steel Nickel plated Resin & Steel	- 51.1 4 74 Single contact Aluminum Painted Steel Zinc plated Steel Nickel plated Steel	51.1 3.6 74 Single contact Aluminum Painted Steel Phosphate coated	- 60.0 0 70 Single contact Aluminum Anodized & Painted Steel Zinc plated Aluminum Anodized Aluminum Anodized Aluminum	52.1  3.8  70  Single contact  Aluminum  Anodized  Aluminum  Anodized  Aluminum  Anodized  Aluminum  Anodized  Aluminum  Anodized  Resin & Steel
mm) Flange Dist Offset P.C.D. Left// Se Roller brake modulator grade  Electric power output connector  Hub shell  Axle  Quick release lever Quick release housing	100 100 ance (mm) (mm) Right (mm) al More than 26 inch 20-24 J1 t J2 t E2 t Oth Mat Fin Mat Fin Mat Fin Mat Fin Mat Fin	High Standard I inch ype ype erial ish erial ish erial ish erial	52.1 3.8 70 Single contact Aluminum Anodized & Painted/Anodized Steel Zinc plated Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized	- 51 4 74 Single contact Aluminum Painted Steel Zinc plated Steel Nickel plated Steel Nickel plated	- 51.1 4 74 Single contact Aluminum Painted Steel Zinc plated Steel Nickel plated Nickel plated	- 51.1 3.6 74 Single contact Aluminum Painted Steel Phosphate coated	- 60.0 0 70 Single contact Aluminum Anodized & Painted Steel Zinc plated Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized	52.1 3.8 70 Single contact Aluminum Anodized Steel Zinc plated Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized

# **Hub Dynamo**

Ser	ies		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Mode	el no.		DH-C6000-3R-NT	DH-C6000-2R	DH-C6000-1R	DH-C3000-3N-QR	DH-C3000-3N-NT	DH-C3000-2N-QR
	St\	/zo	1	-	1	1	1	-
	TP	GBi	1	-	-	1	1	-
Regulation	J	IS	-	-	-	-	-	-
	Others		-	-	-	-	-	-
	Hub		Silver	Silver	Silver	Silver	Silver	Silver
	1	shell	Silver	Silver	Silver	Silver	Silver	Silver
Color	,	Quick release lever	Black	-	-	-	-	-
Color	2	Hub shell	-	Black	Black	Black	Black	Black
		Quick release lever	-	-	-	-	-	-
Ту	pe		Hub Roller Brake	Hub Roller Brake	Hub Roller Brake	Regular	Regular	Regular
CENTER LOCK	( Mount ty	pe	-	-	-	-	-	-
Volta	ge (V)		6	6	6	6	6	6
Outpu	ıt (W)		3	2.4	1.5	3.0	3.0	2.4
	26-28	3 inch	✓	1	1			-
	20-28	3 inch	-	-	-	-	-	-
	18-28	3 inch	-	-	-	-	1	-
	16-28	3 inch	-	-	-	1	1	1
Wheel size	24-28	3 inch	-	-	-		-	-
	20-24	1 inch	-	-	-		-	-
	16-20	) inch	-	-	-	-	-	-
	Compatible wheel size (mm)		(646 - 716)	(646 - 716)	(646 - 716)	(400 - 716)	(400 - 716)	(400 - 716)
O.L.D.	(mm)		100	100	100	100	100	100
Axle lenç	gth (mm)		140	140	140	108	140	108
Spoke	e size		#14	#14	#14	#14	#14	#14
	24	4H	-			-	-	-
	28H		-		-	-	1	-
Spoke hole	32H		1	1	1	1	1	1
	36	5H	1	1	1	1	1	1
Axle fixin	a method		Nut	Nut	Nut	Quick release	Nut	Quick release
		mm	-	-		1	-	1
Quick release skewer length		mm	-	-	_	1	-	1
Thru Axle (Length x		x 12		-	_	-	_	-
Inner diameter ; mm)		x 15			-	-	_	-
Flange Dist			58.1	58.1	58.1	60.0	60.0	60.0
Offset			4.7	4.7	4.7	0.6	1.0	0.6
P.C.D. Left/	· ·		76	76	76	74	74	74
Se			Single Contact	Single contact	Single contact	Single contact	Single contact	Single contact
36		Uiah		Jingle contact  ✓	√	Single contact	Single contact	Single contact
Roller brake	More than 26	High	1	1	1	-	-	-
Roller brake modulator grade	inch	Standard 1 inch	-		-			-
	$\overline{}$			-		-	-	-
		ype			-	-		
Electric power output connector		ype	~	-	-	-	-	-
	_	type	<b>√</b>	<b>/</b>	<b>/</b>	1	1	<b>/</b>
		ners	Aluminum	-	-	-	-	-
Hub shell		erial	Painted	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin	nish	Steel	Painted	Painted	Painted	Painted	Painted
Axle		erial	Manganese Phosphate Coated	Steel	Steel	Steel	Steel	Steel
		ish	-	Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated
Quick release lever		erial	-	-	-	Steel	-	Steel
		ish	-	-	-	Nickel plated	-	Nickel plated
Quick release housing	Mat	erial	-	-	-	Steel	-	Steel
nousing	Fin	ish	-	-	-	Nickel plated	-	Nickel plated
Quick release nut	Mat	erial	-	-	-	Resin & Steel	-	Resin & Steel
Quick release flut	Fin	nish	-	-	-	-	-	-
Average v	weight (g)		960	960	960	700	712	700
No	ote				* For LED light use only			
140	-				only			

CN

SMCN

RT BH

RTAD

ОТ

SMCB SMCA

RM

DH

LP

SMAX

SC

PD

PD

PD

PD

# **Hub Dynamo**

Ser	ies		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Mode	el no.		DH-C3000-2N-NT	DH-C3000-1N	DH-C2100-N	DH-C2100-NC	DH-C2100-N-QR	DH-C2100-N-QRC
Wood	StV	70	-	✓	-	-		
	TPO		-	-	-	-	-	-
Regulation	JI		-	-	_	-	_	-
	Oth		-	-	VIA	VIA	VIA	VIA
		Hub	Cibran	Cilvan				
	1	shell Quick	Silver	Silver	Silver	Silver	Silver	Silver
Color		release lever	-	-	-	-	Silver	Silver
20.0.		Hub shell	Black	Black	Black	Black	Black	Black
	2	Quick release lever	-	-	-	-	Black	Silver
Ту	pe		Regular	Regular	Regular	Regular	Regular	Regular
CENTER LOCK	Mount typ	ре	-	-	-	-	-	-
Volta			6	6	6	6	6	6
Outpu	ıt (W)		2.4	1.5	0.9	0.9	0.9	0.9
	26-28	3 inch	-	-	-	A		-
	20-28	3 inch	-	1	-	-	-	-
	18-28	3 inch	-	-	-			-
	16-28		1	-	-	-	-	-
Wheel size	24-28	3 inch	-	-	1	- 1	1	-
	20-24	l inch	-	-	-	1	-	1
	16-20		-	-	-		-	-
	Compatible wheel size (mm)		(400 - 716)	(448 - 716)	-		-	-
O.L.D.	(mm)		100	100	93	93	100	100
Axle leng	gth (mm)		140	140	155 /150	155 / 150	108	108
Spok	e size		#14	#14	#13/#14	#13/#14	#13/#14	#13/#14
	24H		-	-	-	-	-	-
	28	ВН	-		-	1	-	-
Spoke hole	32	2H	1	1	-	-	1	1
	36	БН	1	1	1	-	1	1
Axle fixin	g method		Nut	Nut	Nut	Nut	Quick release	Quick release
Quick release	129	mm	-	-		-	1	1
skewer length	433	mm	-	-	-	-	1	1
Thru Axle (Length x	133				_	_	_	-
THE AND LENGTH X	100	x 12		-	_		_	-
Inner diameter ; mm)				-	-	-	-	-
Inner diameter ;	100 100		60.0			- 58		
Inner diameter ; mm)	100 100 ance (mm)			-	-		-	-
Inner diameter ; mm) Flange Dist	100 100 cance (mm)		60.0	56.0	- 58	58	- 58	- 58
Inner diameter ; mm) Flange Dist	100 100 cance (mm) (mm) Right (mm)		60.0	- 56.0 0	- 58 0.5	58 0.5	- 58 0.5	- 58 0.5
Inner diameter; mm) Flange Dist Offset P.C.D. Left/ Se	100 100 ance (mm) (mm) Right (mm)		60.0 1.0 74	56.0 0 67	- 58 0.5 60	58 0.5 60	- 58 0.5 60	- 58 0.5 60
Inner diameter; mm) Flange Dist Offset P.C.D. Left/ Se	100 100 cance (mm) (mm) Right (mm)	x 15	60.0 1.0 74	56.0 0 67 Single contact	- 58 0.5 60 Single contact	58 0.5 60 Single contact	- 58 0.5 60 Single contact	58 0.5 60 Single contact
Inner diameter ; mm) Flange Dist Offset P.C.D. Left/	100 100 tance (mm) (mm) Right (mm) al More than 26	x 15  High Standard	60.0 1.0 74 Single contact	56.0 0 67 Single contact	- 58 0.5 60 Single contact	58 0.5 60 Single contact	- 58 0.5 60 Single contact	- 58 0.5 60 Single contact
Inner diameter; mm) Flange Dist Offset P.C.D. Left/ Se	ance (mm) (mm) Right (mm) al More than 26 inch	x 15  High  Standard	60.0 1.0 74 Single contact	- 56.0 0 67 Single contact	- 58 0.5 60 Single contact	58 0.5 60 Single contact	- 58 0.5 60 Single contact	- 58 0.5 60 Single contact
Inner diameter; mm) Flange Dist Offset P.C.D. Left/ Se Roller brake modulator grade	ance (mm) (mm) Right (mm) al More than 26 inch	High Standard Linch ype	60.0 1.0 74 Single contact	- 56.0 0 67 Single contact - -	- 58 0.5 60 Single contact 	58 0.5 60 Single contact - -	- 58 0.5 60 Single contact 	- 58 0.5 60 Single contact 
Inner diameter; mm) Flange Dist Offset P.C.D. Left/ Se	ance (mm) (mm) Right (mm) al More than 26 inch 20-24	High Standard Finch ype ype	60.0 1.0 74 Single contact	- 56.0 0 67 Single contact - -	- 58 0.5 60 Single contact - - -	58 0.5 60 Single contact - - -	- 58 0.5 60 Single contact - - -	- 58 0.5 60 Single contact 
Inner diameter; mm) Flange Dist Offset P.C.D. Left/ Se Roller brake modulator grade	100 100 ance (mm) (mm) Right (mm) al More than 26 inch 20-24 J1 t	High Standard Linch ype ype	60.0 1.0 74 Single contact	- 56.0 0 67 Single contact 	- 58 0.5 60 Single contact	58 0.5 60 Single contact - - - -	- 58 0.5 60 Single contact	- 58 0.5 60 Single contact
Inner diameter; mm) Flange Dist Offset P.C.D. Left/ Se Roller brake modulator grade	100 100 ance (mm) (mm) Right (mm) al More than 26 inch 20-24 J1 t E2 t	High Standard Linch ype ype ype ners	60.0 1.0 74 Single contact	- 56.0 0 67 Single contact	- 58 0.5 60 Single contact	58 0.5 60 Single contact	- 58 0.5 60 Single contact	- 58 0.5 60 Single contact
Inner diameter; mm) Flange Dist Offset P.C.D. Left/ Se Roller brake modulator grade	100 100 ance (mm) (mm) (mm) Right (mm) al More than 26 inch 20-24 J1 t J2 t	High Standard inch ype ype ters erial	60.0 1.0 74 Single contact	- 56.0 0 67 Single contact	- 58 0.5 60 Single contact	58 0.5 60 Single contact Aluminum Painted (Black)/Passivation	- 58 0.5 60 Single contact	- 58 0.5 60 Single contact
Inner diameter; mm)  Flange Dist  Offset  P.C.D. Left/  Se  Roller brake modulator grade  Electric power output connector	100 100 100 100 100 100 100 100 100 100	High Standard Finch ype ype ype erial ish	60.0 1.0 74 Single contact Aluminum Painted	- 56.0 0 67 Single contact Aluminum Painted	- 58 0.5 60 Single contact	58 0.5 60 Single contact  Aluminum Painted (Black)/Passivation (Silver)	- 58 0.5 60 Single contact	- 58 0.5 60 Single contact
Inner diameter; mm)  Flange Dist  Offset  P.C.D. Left/  Se  Roller brake modulator grade  Electric power output connector	100 100 100 ance (mm) (mm) Right (mm) al More than 26 inch 20-24 J1 t E2 t Oth Mat	High Standard I inch ype ype ype iers erial	60.0 1.0 74 Single contact Aluminum Painted Steel	- 56.0 0 67 Single contact Aluminum Painted Steel	- 58 0.5 60 Single contact	58 0.5 60 Single contact	- 58 0.5 60 Single contact	58 0.5 60 Single contact
Inner diameter; mm) Flange Dist Offset P.C.D. Left/ Se Roller brake modulator grade  Electric power output connector  Hub shell	100 100 100 100 100 100 100 100 100 100	High Standard Inch ype ype erial ish	60.0 1.0 74 Single contact Aluminum Painted Steel Phosphate coated	- 56.0 0 67 Single contact Aluminum Painted Steel Phosphate coated	58 0.5 60 Single contact	58 0.5 60 Single contact	58 0.5 60 Single contact	58 0.5 60 Single contact
Inner diameter; mm) Flange Dist Offset P.C.D. Left/ Se Roller brake modulator grade  Electric power output connector  Hub shell	100 100 100 100 100 100 100 100 100 100	High Standard I inch ype ype erial ish erial	60.0 1.0 74 Single contact Aluminum Painted Steel Phosphate coated -	- 56.0 0 67 Single contact Aluminum Painted Steel Phosphate coated -	- 58 0.5 60 Single contact	58 0.5 60 Single contact	58 0.5 60 Single contact	58 0.5 60 Single contact
Inner diameter; mm) Flange Dist Offset P.C.D. Left/ Se Roller brake modulator grade  Electric power output connector  Hub shell  Axle  Quick release lever	100 100 100 100 100 100 100 100 100 100	High Standard inch ype ype ters erial ish erial ish	60.0 1.0 74 Single contact Aluminum Painted Steel Phosphate coated	- 56.0 0 67 Single contact Aluminum Painted Steel Phosphate coated	- 58 0.5 60 Single contact	58 0.5 60 Single contact	58 0.5 60 Single contact	58 0.5 60 Single contact
Inner diameter; mm)  Flange Dist Offset P.C.D. Left/ Se  Roller brake modulator grade  Electric power output connector  Hub shell  Axle  Quick release lever  Quick release	100 100 100 100 100 100 100 100 100 100	High Standard inch ype ype erial ish erial ish erial	60.0 1.0 74 Single contact Aluminum Painted Steel Phosphate coated	Single contact  Single contact  Aluminum  Painted  Steel  Phosphate coated	- 58 0.5 60 Single contact	58 0.5 60 Single contact	- 58 0.5 60 Single contact	Single contact
Inner diameter; mm) Flange Dist Offset P.C.D. Left/ Se Roller brake modulator grade  Electric power output connector  Hub shell  Axle  Quick release lever	100 100 100 100 100 100 100 100 100 100	High Standard inch ype ype erial ish erial ish erial ish	60.0 1.0 74 Single contact Aluminum Painted Steel Phosphate coated	Single contact  Single contact  Aluminum  Painted  Steel  Phosphate coated	- 58 0.5 60 Single contact	58 0.5 60 Single contact	- 58 0.5 60 Single contact	Single contact
Inner diameter; mm)  Flange Dist Offset P.C.D. Left/ Se  Roller brake modulator grade  Electric power output connector  Hub shell  Axle  Quick release lever  Quick release	100 100 100 100 100 100 100 100 100 100	High Standard inch ype ype ers erial ish erial ish erial ish erial ish	60.0 1.0 74 Single contact Aluminum Painted Steel Phosphate coated	Single contact  Single contact  Aluminum  Painted  Steel  Phosphate coated	- 58 0.5 60 Single contact	58 0.5 60 Single contact	- 58 0.5 60 Single contact	Single contact
Inner diameter; mm) Flange Dist Offset P.C.D. Left/ Se Roller brake modulator grade  Electric power output connector  Hub shell  Axle  Quick release lever Quick release housing	100 100 100 100 100 100 100 100 100 100	High Standard inch ype ype ers erial ish erial ish erial ish erial ish	60.0 1.0 74 Single contact Aluminum Painted Steel Phosphate coated	Single contact  Single contact  Aluminum  Painted  Steel  Phosphate coated	- 58	58 0.5 60 Single contact	Single contact	Single contact
Inner diameter; mm) Flange Dist Offset P.C.D. Left/ See Roller brake modulator grade  Electric power output connector  Hub shell  Axle  Quick release lever Quick release housing	100 100 100 100 100 100 100 100 100 100	High Standard inch ype ype ers erial ish erial ish erial ish erial ish	60.0 1.0 74 Single contact Aluminum Painted Steel Phosphate coated	Single contact  Single contact  Aluminum  Painted  Steel  Phosphate coated	- 58 0.5 60 Single contact	58 0.5 60 Single contact	- 58 0.5 60 Single contact	Single contact

# **Hub Dynamo**

500	ries		SHIMANO	SHIMANO	SHIMANO	SHIMANO
			NEXUS	NEXUS		
Mode			DH-2N40-J	DH-2N40-JC	DH-2N40-JW	DH-2N40-JWC
		/ZO GBi	-	-	-	-
Regulation		IS	-	1	1	-
		ners	-	-	-	-
	- 0	Hub				
	1	shell	Silver	Silver	Silver	Silver
Color	'	Quick release lever	-	-	-	-
Color		Hub shell	Black	Black	Black	Black
	2	Quick release lever	-	-	-	-
Ту	pe		Regular	Regular	Regular	Regular
CENTER LOCK	( Mount ty	ре	-	-	-	-
Volta	ge (V)		6	6	6	6
Outpu	ut (W)		2.4	2.4	2.4	2.4
		3 inch	-	-	-	
		3 inch	-	-	-	-
		3 inch	-	-	-	-
Wheel size		3 inch	-	-	-	-
		3 inch	<b>/</b>	-	1	-
	20-24 inch 16-20 inch		-	-		-
		ole wheel		-	-	
	size	(mm)	-	-	-	·
O.L.D.	(mm)		93	93	100	100
Axle leng	Axle length (mm)		155 / 150	150	140	140
Spok			#13/#14	#14	#14	#14
	24H		-		-	-
Spoke hole		3H	-		-	-
	32H 36H		-	·	-	-
Axle fixin	l	ЭΠ	Nut	- Nut	Nut	Nut
	<u> </u>	mm	-	-	Ivut	-
Quick release skewer length		mm	-	-		-
Thru Axle (Length x		x 12		-	-	-
Inner diameter ; mm)	100	x 15	-		-	-
Flange Dist	tance (mm)		60	60	60	60
Offset	(mm)		0	0	3	3
P.C.D. Left/	Right (mm)		69	69	69	69
Se	al		Single contact	Single contact	Single contact	Single contact
Pollor broko	More than 26	High	-	-	-	-
Roller brake modulator grade	inch	Standard	-	-	-	-
		inch	-	-	-	-
		ype		-	-	-
Electric power output connector		ype	1	<b>√</b>	<b>√</b>	<b>√</b>
		type ners	-	-	-	-
		erial	Aluminum & Steel	Aluminum & Steel	Aluminum & Steel	Aluminum & Steel
Hub shell		ish	Painted/Passivation	Painted/Passivation	Painted/Passivation	Painted/Passivation
		erial	Steel	Steel	Steel	Steel
Axle		ish	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Outals !	Mat	erial	-	-	-	-
Quick release lever	Fin	ish	-	-	-	-
Quick release housing	Mat	erial	-	-	-	-
housing	Fin	ish	-	-	-	-
Quick release nut	Mat	erial	-	-	-	-
	l	ish	-	-	-	-
Average v	weight (g)		630	630	630	630
Note			* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market

CN

SMCN

RT

ВН

RTAD

\_\_

SMCB SMCA

RIVI

DΗ

νп

LP

SIVIAX

SC

. –

PD

209

# Light

801-1	Series		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO
Model no.		LP-C2200-B	LP-C2200-S	LP-C2201-B	LP-C2201-S	LP-C2207-B	LP-C2207-C
Function	name	HILMO	HILMO	HILMO	HILMO	HILMO	HILMO
Auto I	ight	-	-	-	-	-	-
	Front	✓	✓	1	1	1	1
Type of light	Tail (Rear)	-	-	-	-	-	-
Hub dynam	o output	0.9 W					
Main l	light	High Power LED					
Brightness (At 5 m dist	tance, JIS standard = x)	40 lx	40 lx	40 lx	40 lx	40 lx	40 lx
Lighting <sub>I</sub>	pattern	WIDE	Wide	Wide	Wide	Wide	Wide
Sub li	ght	-	-	-	-	-	-
Stand light (LED fl	ashing) function	-	-	-	-	-	-
Reflector in	tegration	✓	1	1	1	-	-
Electric power	Tab-on type	-	-	-	-	-	-
input	Connector type	J2-A	J2-A	J2-A	J2-A	J2-A	J2-A
Light body	material	Resin	Resin	Resin	Resin	Resin	Resin
	1	СР	СР	СР	СР	Silver/Black/Black	CP/Silver/Black
Γ	2	Silver (Painted)	Silver (Painted)	Silver (Painted)	Silver (Painted)	Black/Gray/Black	CP/Silver/White
Calar	3	White	White	White	White	-	-
Color	4	Black	Black	Black	Black	-	-
	5	Gray	Gray	Gray	Gray	-	-
	6	-	-	-	-	-	-
	Light stay	-	1	-	1	-	-
	Below basket	1	-		-	1	-
F	Fork center	-		-		-	1
Attachment	Handle bar	-	-	<i>-</i>	-	-	-
position	On mud guard	-	-	-	-	-	-
	Mud guard style stay	-	<b>-</b>	-	-	-	-
	Seat stay	-	-	-	-	-	-
	13	-	-	-	-	-	-
Compatible seat stay diameter (mm)	16	-	-	-	-	-	-
,,	19	-	-	-	-	-	-
	22.2			-	-	-	-
Compatible handle bar diameter (mm)	25.4	-	-	-	-	-	-
20. 0.0	31.8			-	-	-	-
	Auto		-	-	-	-	-
	Manual (on)	-	-	-	-	-	-
Switch	Manual (off)	-	-	-	-	-	-
ļ	Permanent	1	<b>/</b>	1	1	1	1
	Black		-	-	-	-	1
Electric wire color	Gray	1	1	1	1	1	-
Flooris	Tab-on type	-	-	-	-	-	-
Electric wire length(mm)	Connector type	715	405	715	405	710	500
EZ cable		-	-	-	-	-	-
Cord length	-	-	-	-	-	-	-
Compatible		-	-	-	-	-	-
Not		* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market



# Light

Ser	ies	SHIMANO	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Mode	el no.	LP-C2250-H	LP-C2111-S	LP-X101	LP-X101-H	LP-NX60-R
Functio	n name	HILMO	HILMO FLASH	-	-	-
Auto	light	-	-	1	1	-
- (".)	Front	1	1	1	1	1
Type of light	Tail (Rear)	-	-	-	-	-
Hub dynai	no output	0.9 W	6 V-0.9 W	6 V-2.4 W	6 V-2.4 W	6 V-2.4 W
Main	light	High power LED	High Power LED	High Power LED	High Power LED	Super Bright Red LED
Brightness (At 5 m distance, JIS standard = 16 lx)		40 lx	40 lx	80 lx	80 lx	-
Lighting	pattern	Wide	Normal	Normal	Normal	-
Sub	light	-	-	-	-	-
Stand light (LED 1	lashing) function	-	1	-	-	✓ (if used with LP- X103)
Reflector i	ntegration	-	1	-	1	-
Electric power	Tab-on type	-	-	1	1	-
input	Connector type	J2-A	J2A	1	1	1
Light bod	y material	Resin	Resin	Resin	Resin	Resin
	1	Silver/Black	СР	Silver (Painted)	Silver (Painted)	Silver (Painted)
Color	2	-	Silver (Painted)	White (Painted)	White (Painted)	White (Painted)
	3	-	White	Black	Black	Black (Painted)
	4	-	Black	Gray	Gray	-
	5	-	Gray	-	-	-
	6	-	-	-	-	-
	Light stay		1	1	1	-
	Below basket	-	-	-		-
	Fork center	-	-	-	-	-
Attachment position	Handle bar	1	-	-	-	-
	On mud guard	-	-	-	-	<b>√</b> *
	Mud guard style stay	-	-	-	-	-
	Seat stay	-	-	-	-	-
	13	-	-	-	-	-
Compatible seat stay diameter (mm)	16		-	-	-	-
	19	-		-	-	-
Çompatible handle	22.2 25.4	1	-	-	-	-
bar diameter (mm)	31.8			-		-
	Auto		-	-	-	-
	Manual (on)	-	-	1	1	-
Switch	Manual (off)		-	-	-	-
	Permanent	1	1	-	<u> </u>	1
	Black	<b>1</b>	-	1	1	1
Electric wire color	Gray	-	1	-	-	1
Flores	Tab-on type	-	-	400	410	-
Electric wire length(mm)	Connector type	800	405	120	160	Available
EZ cable		<b>√</b>	-	-	-	-
Cord lengt	· ·	-	-	-	-	-
Compatible	-	-	-	-	-	22/24/26/27 inch
No		* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market (attached with special stay. 2 kinds of stays are available. One for internal geared hub, another for FREEHUB)

CN

SMCN

RT

ВН

RTAD

SMCB SMCA

RM

DH

LP

SMAX

SC

# E-THRU Axle (AX)

Se	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mod	el no.	SM-AX720-100x12	SM-AX720-142x12	AX-MT700-142x12	AX-MT700-148x12	AX-MT700-157x12	AX-MT500-142x12
	135 x 10 mm	-	-	-	-	-	-
	100 x 12 mm	1	-	-	-	-	-
Auda tuma	135 x 12 mm	-	-	-	-	-	-
Axle type	142 x 12 mm	-	✓	1	-	-	1
	148 x 12 mm	-	-	-	1	1	-
	157 x 12 mm	-	-	-	-	✓	-
	Tool-less type	-	-	-	-	-	-
Lever position adjustment	Hexagon wrench type	1	1	1	1	1	1
	Thread pitch	M12 x 1.5					
	Length (mm)	121	163	166	172	181	166
Axle	Hollow axle	1	✓	✓	1	✓	1
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Silver Anodized
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Lever	Finish	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Painted (Black)
Housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Housing	Finish	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Painted (Black)
Fixing nut	Material	-	-	-	-	-	-
rixing nut	Finish	-	-	-	-	-	-
Average	weight (g)	65	74	75	76	79	79
No	ote						

Se	ries	SHIMANO	SHIMANO	SAINT	SHIMANO	SHIMANO	SHIMANO
Mod	el no.	AX-MT500-148x12	AX-MT500-157x12	SM-AX80	SM-AX78	SM-AX78-B	SM-AX76
	135 x 10 mm	-	-	1	-	-	-
	100 x 12 mm	-	-	-	=	-	-
Axle type	135 x 12 mm		-	✓	-	-	-
Axie type	142 x 12 mm	-		-	✓	-	1
	148 x 12 mm	1	-	150 x 12 mm	-	1	-
	157 x 12 mm		1	-	-	-	-
Lever position	Tool-less type	-	-	-	✓	1	1
Lever position adjustment	Hexagon wrench type	×	✓	1	-	-	-
	Thread pitch	M12 x 1.5	M12 x 1.5	M10 x 1.00 (10 mm) M12 x 1.75 (12 mm)	M12 x 1.5	M12 x 1.5	M12 x 1.5
	Length (mm)	172	181	168/183	166	172	171
Axle	Hollow axle	1	1	1	1	1	1
	Mater <mark>ial</mark>	Aluminum	Aluminum	Chromoly Steel	Aluminum	Aluminum	Aluminum
	Finish	Silver Anodized	Silver Anodized	Plated	Black Anodized	Black Anodized	Black Anodized
Lever	Material	Aluminum	Aluminum	-	Aluminum	Aluminum	Aluminum
Level	Finish	Painted (Black)	Painted (Black)	-	Black Anodized	Black Anodized	Black Anodized
Housing	Material	Aluminum	Aluminum	-	Aluminum	Aluminum	Aluminum
Housing	Finish	Painted (Black)	Painted (Black)	-	Black Anodized	Black Anodized	Black Anodized
Fixing nut	Material	-	-	Steel	-	-	Aluminum
Tixing nuc	Finish	-	-	Plated	-	-	Black Anodized
Average	Average weight (g)		83	133 (135 x 10 mm) 160 (135 x 12 mm) 169 (150 x 12 mm)	77	78	69
Ne	ote						

### E-THRU Axle (AX)

Se	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mod	lel no.	SM-AX76-B	SM-AX58	SM-AX58-B	SM-AX56	SM-AX56-B
	135 x 10 mm	-	-	-	-	-
	100 x 12 mm	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-
Axle type	142 x 12 mm	-	1	-	1	-
	148 x 12 mm	1	-	1	-	✓
	157 x 12 mm	-	-	-	-	-
	Tool-less type	1	1	1	1	1
Lever position adjustment	Hexagon wrench type	-	-	-	-	-
	Thread pitch	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5
	Length (mm)	177	166	172	171	177
Axle	Hollow axle	1	1	1	4	✓
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black Anodized	Silver Anodized	Silver Anodized	Silver Anodized	Silver Anodized
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Level	Finish	Black Anodized	Painted (Black)	Painted (Black)	Painted (Black)	Painted (Black)
Housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Housing	Finish	Black Anodized	Black Anodized	Black Anodized	Painted (Black)	Painted (Black)
Fixing nut	Material	Aluminum	-	-	Aluminum	Aluminum
rixing flut	Finish	Black Anodized	-		Black Anodized	Black Anodized
Average	weight (g)	71	81	82	75	77
N	ote					



CN

SMCN

KI

ВН

RTAD

ОТ

SMCB SMCA

RM

DH

LP

SMAX

SC

PD

PD

## Cycle Computer

Sei	ries	SHIMANO
Mode	CI-DECK SC-CI300	
-	ole system	Mechanical Handlebar
	nt position	
	y type	CR2032
	cycle computer	-
	peeds	-
	speeds	-
Number of progra	amable wheel size	1
Wheel si	ze range	20 inch/22 inch/24 inch/26 inch
Remote	e switch	-
Commu	nications	Wired
Memory	capacity	-
PC softwar	e available	-
Detac	hable	1
	Size (Active Area)	20 x 20 mm
	Font type	Segment
Display spec	Panel type	LCD
	Back light	-
	Touch panel	-
	Gear indicator	-
	Speed	✓
	Cadence	-
	Trip distance	-
	Odometer	1
	Heart rate	-
Display function	Power	-
	Time/Clock	1
	Altitude/Slope	
	Temperature	
	Lap time	-
	Auto display start	1
	Display customizing	-
	Unit setting	
Setting function	Language choice	
	Beep on/off	-
	Changing data sampling rate	-
No	ote	Use with SM-CI300



#### GENERAL

## Pedal (SPD)

Sei	ries	XTR	XTR	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO	SHIMANO
Model no.		PD-M9100	PD-M9120	PD-M8100	PD-M8120	PD-M540	PD-M520
Col	or 1	Black	Black	Series color	Series color	Silver	Silver
Col	or 2	-	-	-	-	Black	Black
Col	or 3	-	-	-	-	-	-
Ту	pe	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)
Bine	ding	Dual Sided	Dual Sided	Dual sided	Dual sided	Dual Sided	Dual Sided
Pedal axl	e material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartrid	ge axle	✓	<b>✓</b>	1	1	1	✓
Sealed m	echanism	✓	<b>*</b>	1	1	✓	✓
Cleat retent	tion adjuster	1	<b>√</b>	1	1	✓	✓
Pop-u	p cage	-	-	-	-	-	-
Integra	ted cage	-	✓	-	1	-	-
Offset	binding	✓	-	-	-	-	-
Oval shape axl	e body housing	-	-	-	-	-	-
Cleat in	ncluded	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51
Option	al cleat	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56
Refle	ector	SM-PD60 SM-PD22 (3 mm shorter axle type)	SM-PD60	SM-PD60	SM-PD60	SM-PD22	SM-PD22
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Pedal body	Finish	Anodized	Anodized	Anodized	Anodized	Anodized (Silver) /Painted (Bronze)	Polished (Silver) /Painted (Black) /Painted (White)
Cage	Material	-	-			-	-
Average weight (g)		310 ( /pair) (Short axle type) 314 ( /pair) (Normal axle type)	398 ( /pair)	342 ( /pair)	438 ( /pair)	352 ( /pair)	380 ( /pair)
No	Note		1.0 mm cleat spacer included	1.0 mm cleat spacer included	1.0 mm cleat spacer included		

Series		SHIMANO	SAINT	SHIMANO DXR	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	PD-M505	PD-M820	PD-MX70	PD-M647	PD-M324	PD-ME700
Cole	or 1	Silver	Black	Black	Black	Silver	Black
Cole	or 2	Black	-	-	-	-	-
Cole	or 3	-	-	-	-	-	-
Ту	ре	Off-Road (SPD)	Off-Road/DH (SPD)	Off-Road (SPD)	Off-Road/BMX (SPD)	Multi-purpose (SPD/ Flat)	Off-Road (SPD)
Bino	ding	Dual Sided	Dual sided	Dual sided	Dual Sided	Single Sided	Dual sided
Pedal axle	e material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartrid	ge axle	7-	1	1	1	-	✓
Sealed m	echanism	1	1	✓	✓	✓	✓
Cleat retent	ion adjuster	1	<b>✓</b>	✓	✓	<b>✓</b>	✓
Pop-uj	Pop-up <mark>cage</mark>		-	-	✓	-	-
Integrat	Integrated cage		✓	✓	-	-	✓
Offset I	Offset binding		-	-	-	-	-
Oval shape axle	e body <mark>housi</mark> ng	-	-	-	-	-	-
Cleat in	ncluded	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH56	SM-SH51
Option	al cleat	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH51	SM-SH56
Refle	ector	SM-PD22	SM-PD60	SM-PD60	SM-PD60	Y41B98010	SM-PD60
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Pedal body	Finish	Polished (Silver) /Painted (Black)	Painted	Anodized	Painted	Painted	Painted
Cage	Material	-	-	-	Resin	Steel	-
Average weight (g)		443 ( /pair)	546 ( /pair) (w/o pins & washers)	414 ( /pair)	568 ( /pair)	533 ( /pair)	540 ( /pair)
Note			4 height adjustable pins 1.0 mm cleat spacer included	Higher retention force and narrower release angle than normal SPD pedals 1.0 mm cleat spacer included			

CN

SMCN

RT

ВН

RTAD

ОТ

SMCB SMCA

RM

DH

LP

SMAX

PD

PD

D

PD

## Pedal (SPD)

Series		SHIMANO DEORE XT	SHIMANO	SHIMANO	SHIMANO
Model no.		PD-T8000	PD-ES600	PD-EH500	PD-ED500
Cole		Black			
		віаск	Dark Gray	Dark Gray	Dark Gray
Cole	or 2	-	-	-	-
Cole	or 3	-	-	-	-
Ту	pe	Trekking (SPD/Flat)	Road (SPD)	Multi-purpose (SPD/ Flat)	Road (SPD)
Bino	ling	Single Sided	Single Sided	Single Sided	Dual Sided
Pedal axle	e material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartridge axle		1	1	1	1
Sealed mechanism		1	1	1	1
Cleat retention adjuster		1	1	1	1
Pop-up cage		-	-	-	-
Integrat	ed cage	-	-	-	✓
Offset I	oinding	-	-	-	-
Oval shape axle	body housing	-	-	-	-
Cleat in	cluded	SM-SH56	SM-SH51	SM-SH56	SM-SH56
Option	al cleat	SM-SH51	SM-SH56	SM-SH51	SM-SH51
Refle	ector	Integrated	SM-PD62	SM-PD68	SM-PD60
Pedal body Material Finish		Aluminum	Aluminum	Aluminum	Aluminum
		Anodized	Painted	Painted	Painted (Dark Gray)
Cage	Material	-	-	-	-
Average v	veight (g)	392 ( /pair)	279 ( /pair)	383 ( /pair)	442 (/pair)
No	te		1.0 mm cleat spacer included	Light action	Light action



#### GENERAL

## Pedal (CLICK'R)

Ser	SHIMANO		
Mode	PD-T421		
Cole	or 1	Black	
Cole	or 2	-	
Cole	or 3	-	
Ту	ре	Trekking (CLICK'R)	
Bino	ling	Single Sided	
Pedal axle	e material	Chromoly Steel	
Cartrid	1		
Sealed m	1		
Cleat retent	1		
Pop-u	Pop-up cage		
Integrat	Integrated cage		
Offset I	binding	-	
Oval shape axlo	e body housing	-	
Cleat in	ıcluded	SM-SH56	
Option	al cleat	SM-SH51	
Refle	ector	Integrated	
Pedal body	Material	Aluminum	
Pedai body	Finish	Painted	
Cage	Material	Resin	
Average v	veight (g)	418 ( /pair)	
No	Note		



CN

SMCN

т

BH

RTAD

ЭТ

SMCB SMCA

RM

DH

LP

SMAX

PD

PD

## Pedal (Flat Pedal)

Series		SAINT	SHIMANO DEORE XT	SHIMANO	SHIMANO	SHIMANO
Model no.		PD-M828	PD-M8140	PD-GR500	PD-EF202	PD-EF205
Col	or 1	Black	Black	Black	Black	Black
Col	or 2	-	-	Silver	Silver	Silver
Col	or 3	-	-	-	Red	Red
Col	or 4	-	-	-	Blue	Blue
Col	or 5	-	-	-	Gold	Gold
ту	pe	Off-Road (Flat Pedal)	Off-Road (Flat Pedal)	Off-Road (Flat Pedal)	Flat Pedal	Flat Pedal
Bino	ding	-	-	-	-	-
Pedal axlo	e material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartridge axle		1	✓	✓	-	-
Sealed mechanism		✓	✓	✓	1	1
Cleat retent	ion adjuster	-	-	-	-	
Pop-u	p cage	-	-	-		
Integrat	ted cage	-	-	-	-	•
Offset	binding	-	-	-		
Oval shape axl	e body housing	-	-	-	-	
Cleat ir	ncluded	-	-		·	-
Option	al cleat	-	-	-		-
Refle	ector	SM-PD64A	SM-PD67	SM-PD64A	Attachable (SM-PD53)	Attachable (SM-PD53)
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
redai body	Finish	Anodized	Painted	Painted	Painted	Painted
Cage	Material	-	-		-	-
Average v	weight (g)	553 ( /pair)	461 ( /pair) (SM) 505 ( /pair) (ML)	533 ( /pair)	512 ( /pair)	612 ( /pair)
No	ote	12 pins per platform	10 pins per platform 2 platform size available (SM/ML)	9 pins per platform	-	-



#### GENERAL

## Pedal (SPD-SL)

Se	ries	DURA-ACE	SHIMANO ULTEGRA	SHIMANO 105	SHIMANO	SHIMANO
Model no.		PD-R9100	PD-R8000	PD-R7000	PD-R550	PD-RS500
Col	or 1	CFRP	CFRP	CFRP	Black	Black
Col	or 2	-	-	-	Gray	-
Col	or 3	-	-	-	-	-
Ту	/pe	Road	Road	Road	Road	Road
Bin	ding	Single Sided	Single Sided	Single Sided	Single Sided	Single Sided
Pedal axl	Pedal axle material		Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartrid	Cartridge axle		✓	1	1	<b>~</b>
Sealed m	Sealed mechanism		✓	✓	1	✓
Cleat reten	Cleat retention adjuster		1	1	1	1
Cleat i	Cleat included		SM-SH11	SM-SH11	SM-SH11	SM-SH11
Option	nal cleat	SM-SH10, SM-SH11	SM-SH10, SM-SH12	SM-SH10, SM-SH12	SM-SH10, SM-SH12	SM-SH10, SM-SH12
Refl	ector	SM-PD63	SM-PD63	SM-PD65	SM-PD65	SM-PD65
Pedal body	Material	Carbon	Carbon	Carbon	Resin	Resin
Pedai body	Finish	-	-	-	Painted	Painted
Body cove	er material	Special Stainless	Special Stainless	Stainless	Stainless	Stainless
Wide p	Wide platform		✓	1	1	-
Road clear	ance (deg.)	35	33	31	32	30
Average	weight (g)	228 ( /pair)	248 ( /pair)	265 ( /pair)	310 ( /pair)	320 ( /pair)
N	ote	4 mm longer axle available, Hollow cleat bolts	4 mm longer axle available		Wider spring tension range	-



CN

SMCN

RT

ВН

RTAD

ОТ

SMCB SMCA

RIVI

DH

LP

SMAX

SC

. \_

\_

PD

219



# DI2 Spec

S	

		Page	
<mtb></mtb>	Shifting Switch	222	sw
	Rear Derailleur	223	RD
	Front Derailleur	224	FD
	<b>Mount Adapter for Front Derailleur</b>	225	SMAD
	System Information Display	226	sc
<gravel <br="">ADVENTURE&gt;</gravel>	Shifting/Brake Lever (Hydraulic Disc Brake)	227	SL
	Rear Derailleur	228	RD
	Front Derailleur	228	FD
<road></road>	Shifting/Brake Lever	229	ST
	Shifting/Brake Lever (Hydraulic Disc Brake)	230	ST
	Shifting Switch	231	sw
	Rear Derailleur	232	RD
	Front Derailleur	233	FD
	Front Derailleur (Adapter)	233	SMAD
<urban></urban>	Internal Geared Hub	234	sg
	Motor Unit	236	MU
<general></general>	Electric Wire	237	EW
	Cord Cover	237	EWC
	Grommet	237	GM
	Wireless Unit	238	wu
	Junction [A]	238	JC
	Junction [B]	239	JC
	Battery	239	вт
	Battery Mount	240	вм
	Battery Case	240	SMBT
	Battery Charger	240	SMBC
	Charger Cord	241	всс
	PC Linkage Device	241	SMPCE
	Cord Band	242	SMCB
	Cord Crip	242	SMCC

## Shifting Switch

Series		SHIMANO XTR	SHIMANO XTR	SHIMANO DEORE XT	SHIMANO DEORE XT
Mode	el no.	SW-M9050-R	SW-M9050-L	SW-M8050-R	SW-M8050-L
Switch	n type	FIREBOLT	FIREBOLT	FIREBOLT	FIREBOLT
Posi	tion	Clamp band, Right	Clamp band, Left	Clamp band, Right	Clamp band, Left
Compatible	electric wire	EW-SD50	EW-SD50	EW-SD50	EW-SD50
Switcl	h QTY	2	2	2	2
SD50 pc	ort (pcs)	1	1	1	1
SD300 p	ort (pcs)	0	0	0	0
SD50 conn	ector (pcs)	0	0	0	0
SD300 conr	nector (pcs)	0	0	0	0
	2 step	1	-*(✔)	-	-
Multiple input	Hold	1	-*(✔)	1	-*(✔)
Rear derail	leur switch				
Front derail	lleur switch				
Suspension	on switch	-	-**(✔)	-	-**(✔)
Advanced sea	at post switch				
3rd devi	e switch				
Mount Posi	ition adjust	1	1	1	1
Maste	er unit	-	-		
Firmware update b	y E-TUBE PROJECT	1	1	1	1
Average v	veight (g)	66	66	93	93
No	ote		* User can use it for rear derailleur multishift ** User can use it for Suspension control		* User can use it f rear derailleur multishift ** User can use i for Suspension control



#### DI2 Spec

#### Rear Derailleur

Ser	ries	SHIMANO XTR	SHIMANO XTR	SHIMANO DEORE XT
Mode	el no.	RD-M9050-GS	RD-M9050-SGS	RD-M8050-GS
Pulley cage		GS	SGS	GS
	1	Series color	Series color	Series color
Color	2	-	-	-
Rear s	peeds	11	11	11
Compati	ble chain	HG-X11	HG-X11	HG-X11
	SHIMANO SHADOW	1	1	✓
Top-Normal spring type	SHIMANO SHADOW	1	1	1
	Double servo	-	-	-
	Direct attachment (Conventional)	1	1	1
Mount	Direct mount compatible	<b>√</b> *	<b>√</b> *	<b>√</b> *
	Road type	-	-	-
Riveted adapter	BMX-Track type	-	-	-
Mode co	onverter	-	-	-
Cable a	djuster	-	-	-
Max. front	difference	10T	18T	10T
Total ca	apacity	35T**	41T**	35T**
Low sprocket	Max.	42T (2x11-speed) 46T (1x11-speed)	40T (3x11-speed) 42T (2x11-speed) 46T (1x11-speed)	42T (2x11-speed) 46T (1x11-speed)
	Min.	40T	40T	40T
Ton spreaket	Max.	11T	11T	11T
Top sprocket	Min.	11T	11T	11T
Fluoric coated	link bushings	4	4	4
	G pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
Pulley	Teeth	11	11	11
	Bolts material	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	<b>√</b>	•	
Bracket	Material	Aluminum	Aluminum	Aluminum
	Finish Hollow axle	Anodizing <b>√</b>	Anodizing	Anodizing
B-axle	Material	Aluminum	Aluminum	Aluminum
D-date	Finish	Anodized	Anodized	Anodized
	Hollow axle	J	/ III di Lea	//
B-axle 2	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
	Material	Aluminum	Aluminum	Aluminum
Bracket body	Finish	Painted	Painted	Painted
D avila	Material	Steel	Steel	Steel
P-axle	Finish	-		-
Plate body	Material	CFRP	CFRP	GFRP
i late body	Finish	Painted	Painted	-
Outer link	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted
Inner link	Material	Aluminum	Aluminum	Steel
	Finish Material	Anodized CFRP	Anodized CFRP	Painted Aluminum
Outer plate	Finish	Painted	Painted	Painted
	Material	Aluminum	Aluminum	Aluminum
Inner plate	Finish	Anodized	Anodized	Anodized
	Material	-	-	-
Cable fixing bolt	Finish	-	-	-
Stroke adjusting	Material	-	-	-
screw	Finish	-	-	-
SD50 po	ort (pcs)	1	1	1
SD300 port (pcs)		0	0	0
SD50 connector (pcs)		0	0	0
	nector (pcs)	0	0	0
Average v	weight (g)	290	295	319
Note		* w/o Bracket spec available. ** The DI2 system limits cross chain to prevent a chain from	* w/o Bracket spec available. ** The DI2 system limits cross chain to prevent a chain from	* w/o Bracket spec available. ** The DI2 system limits cross chain to prevent a chain from
		getting loose.	getting loose.	getting loose.

sw

RD

FD

SMAD

sC.

...

ED

.

SW

RD FD

SMAD

SG

MU

EVV

EWC

GM

WU

C

C

вт

BM

SMBT

SMBC

SIVIBC

ВСС

SMPCE

SMCB SMCA

SIVICC

### Front Derailleur

Ser	ries		SHIMANO XTR	SHIMANO XTR	SHIMANO DEORE XT
Model no.		FD-M9050	FD-M9070	FD-M8070	
1		Series color	Series color	Series color	
Color		<u>'</u>	-	-	-
	Fro	nt	3	2	2
Speeds	Re	ar	11	11	11
Compati	ble chain		HG-X11	HG-X11	HG-X11
	TOP S	WING	-	-	-
Action		Swing	1	1	1
71000		WING	<u> </u>	-	_
	3102.3	28.6	w/ SM-FD905-L, SM-	w/ SM-FD905-L, SM-	w/ SM-FD905-L, SM-
	Clamp Band	31.8	FD905-H w/ SM-FD905-L, SM-	FD905-H w/ SM-FD905-L, SM-	FD905-H w/ SM-FD905-L, SM-
	(mm)	34.9	FD905-H w/ SM-FD905-L, SM- FD905-H	FD905-H w/ SM-FD905-L, SM- FD905-H	FD905-H w/ SM-FD905-L, SM- FD905-H
Mount		ottom	-	- -	- -
	bracke	•			
		bottom t plate	w/ SM-FD905-E	w/ SM-FD905-E*	w/ SM-FD905-E*
		mount	w/ SM-FD905-D	w/ SM-FD905-D*	w/ SM-FD905-D*
		mount			
	Dual				
		exclusive			
Cable route type	<u> </u>	exclusive			
		t-Pull			
Chaire II		t-ruii	F0.	40.0+	40.04
	ne (mm)		50	48.8*	48.8*
Chain stay a		1	66 - 69	66 - 69	66 - 69
	ar teeth		40T	38-34T	38-34T
Total ca	apacity		18T	10T	10T
Applicable Top-Mi	d tooth diff	erence	10T	-	-
Multi access ca	ble fixing b	olt			
Angled strok	e adjust bo	lt			
Angled clamp	band design	gn			
Link bւ	ıshings		7	7	7
Front dame hand	Mat	erial			
Front clamp band	Fin	ish			
Rear clamp band,	Mat	erial			
base bracket	Fin	ish			
	Mat	erial			
Clamp bolt	Fin	ish			
Battana barabat	Mat	erial			
Bottom bracket plate		ish			
		erial	Aluminum	Aluminum	Aluminum
Outer link		ish	Painted	Painted	Painted
		erial			
Inner link			Aluminum	Aluminum	Steel
		ish	Painted	Painted	Plated
Chain guide		erial	Aluminum	Aluminum	Steel
		ish	Nickel plated	Nickel plated	Nickel plated
Stroke adjusting		erial			
screw	Fin	ish			
Maste	er unit		-	-	-
Firmware update by E-TUBE PROJECT		✓	1	✓	
SD50 port (pcs)		1	1	1	
SD300 port (pcs)		0	0	0	
SD50 connector (pcs)		0	0	0	
SD300 connector (pcs)		0	0	0	
		: L size,			
Average weight (g) direct typ	e w/ bolt)		125	112	134
Note			* Compatible with the special crankset which chain line is 3 mm outboard.	* For FC 3 mm outboard spec, 51.8 mm ** Compatible with the special crankset which chain line is 3 mm outboard.	



#### DI2 Spec

## Mount Adapter for Front Derailleur

Ser	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	SM-FD905-D	SM-FD905-E	05-E SM-FD905-H SM-F0	
Moun	t type	Direct mount	E type mount	High clamp band	Low clamp band
Front down bond	Material	-	-	Aluminum	Aluminum
Front clamp band	Finish	-	-	Painted	Painted
Baar alaman hand	Material	-	-	Aluminum	Aluminum
Rear clamp band	Finish	-	-	Painted	Painted
28.6		-	-	*•	*•
Clamp band diameter (mm)	31.8	-	-	*•	*•
	34.9	-	-	1	1
Direct mound	Material	Aluminum	Aluminum	-	-
bracket	Finish	Painted	Painted	-	-
Crankset Top	gear teeth	40T-34T	40T-34T	40T-34T	40T-34T
Average v	veight (g)	21.1 27.1 33		42.1	
Note		Compatible with the special crankset which chain line is 3 mm outboard.	Compatible with the special crankset which chain line is 3 mm outboard.	* w/ Multi Clamp Band	* w/ Multi Clamp Band



SVV

RD

SMAD

C

SL

RD

\_\_\_

RD

FD

SMAD

SG MU

EVV

\_ 000

GM

WU

...

10

BIVI

SMBT

SMBC

BCC

SMPCE

SMCB SMCA

## System Information Display

Sei	ries	SHIMANO XTR	SHIMANO
Mode	el no.	SC-M9051	SC-MT800
Compatib	le system	E-TUBE system	E-TUBE system
Wireless s	system***	ANT private Bluetooth®LE	ANT private* Bluetooth®LE
Attachme	nt position	Handle bar*	Handle bar**
Display d	etachable	-	-
Adjust	button	1	✓
	Gear indicator (Rear)	11	11
	Gear indicator (Front)	1/2/3	1/2/3
Display function***	Shifting Mode (Manual/ SYNCHRONIZED SHIFT)	1	✓
	Suspension Mode	1	✓
	Shifting Adjust Mode	1	✓
	Battery charge level	1	✓
Setting function	Shifting adjust	✓	✓
	Shifting adjust indicator	1	✓
	System diagnosis	1	✓
For DI2 system	Charging port for built-in battery	1	✓
	Compatible charger	SM-BCR2	SM-BCR2
	SYNCHRONIZED SHIFT mode change	1	1
Maste	er unit	-	
Firmware update b	y E-TUBE PROJECT	1	1
SD50 pe	ort (pcs)	3	3
SD300 p	ort (pcs)	0	0
SD50 conn	ector (pcs)	0	0
SD300 coni	nector (pcs)	0	0
Average v	weight (g)	30	30
			* ANT private has compatibility with ANT+ cycle computer but not freely open profile.
No	ote	*2 Spec of clamp band diameter ø31.8 and ø35.	** 2 Spec of clamp band diameter ø31.8 and ø35.0
			*** Data of list of "Display function" is sent to other digital device by ANT private.



#### DI2 Spec MTB GRAVEL/ ADVENTURE

## Shifting/Brake Lever (Hydraulic Disc Brake)

			61	61
Series Model no			SHIMANO GRX	SHIMANO GRX
Model no.			ST-RX815-R	ST-RX815-L
Color	1		Series color	Series color
Color 2		-	-	
Shifte	er type		DUAL CONTROL LEVER	DUAL CONTROL LEVER
	Front	speeds	-	2
	Rears	peeds	11	-
	Remote	switch	1	1
	Maste	er unit	-	-
Shifting lever	Firmwar by E-TUBI	e update E PROJECT	1	1
specifications	Compat deraille	ible rear eur type	Road 11-speed	Road 11-speed
	Shiftin positio	g lever n adjust	-	-
	Multipl	2 step	-	-
	e input	Hold	1	1
	Suspensi	on switch	-	-
	Lever siz	e (Finger)	-	-
	Brake h	ose (Kit)	SM-BH90-JK-SSR	SM-BH90-JK-SSR
	Hose	joint	Straight	Straight
	Brake	1	Black	Black
	hose color	2	-	-
	(kit) 2 Recommended			
	brake caliper		BR-RX810	BR-RX810
Brake lever specifications	Brake fluid	SHIMA NO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral
	Pooch	Toolless	-	-
	Reach adjust	Tool	1	1
	Funnel bleeding		1	1
	Free stro	ke adjust		1
	SERVO	WAVE		1
	Open	clamp	-	-
Clamp band		iameter	23.8-24.2	23.8-24.2
		erial	CFRP	CFRP
Bracket		ish	-	-
	Mat	erial	-	-
Electric button		ish	-	-
		ain	GFRP	GFRP
Shifter Lever body		ease	-	-
	· '	erial	Aluminum	Aluminum
Lever		ish	Painted	Painted
		erial	CFRP	CFRP
Master cylinder		ish	Cita	
CDE0 ~	ort (pcs)		2	2
			0	0
	oort (pcs)			
	nector (pcs)		0	0
	nector (pcs)		0	0
Port for remote sp		er (pcs)	0	0
	weight (g)		373 ( /pair)	373 ( /pair)
Note				



SW

ΚD

SMAD

sc

-1

IND

FD

ST

ST

SVV

RD

SMAD

MU

EVV

GM

WU

C

C

ВТ

BIVI

SMBT

SMBC

BCC

SMPCE

SMCB SMCA

### Rear Derailleur

Ser	ries	SHIMANO GRX	SHIMANO GRX
Mode	el no.	RD-RX815	RD-RX817
Pulley	r cage		
Rear s	peeds	11	11
	SHADOW RD	-	-
Top-Normal spring type	SHADOW RD+	1	✓
3,1-2	Double servo	-	-
Max front	difference	17T	-
Total ca	apacity	38T	31T
Max. low	sprocket	34T	42T
Min. low	sprocket	30T	40T
Max. top	sprocket	11T	11T
Min. top	sprocket	11T	11T
Mount	Riveted adapter available	-	-
	Direct attachment	1	✓
Fluoric coated	l link bushing	4	4
Pul	ley	13T	11T
Sealed bearing	g guide pulley	1	✓
Sealed bearing	tension pulley	1	1
Dunglook books	Material	Aluminum	Aluminum
Bracket body	Finish	Painted	Painted
Dieta hadu	Material	GFRP	Aluminum
Plate body	Finish	Painted	Painted
Outer link	Material	Aluminum	Aluminum
Outerlink	Finish	Anodized	Painted
lan au link	Material	GFRP	Steel
Inner link	Finish	-	GFRP
Out and the	Material	Aluminum	-
Outer plate	Finish	Painted	Painted
lanes alete	Material	Aluminum	Aluminum
Inner plate	Finish	Painted	Painted
Maste	er unit		
Firmware update b	y E-TUBE PROJECT	1	1
SD50 po	ort (pcs)	1	1
SD300 p	ort (pcs)	0	0
SD50 conn	ector (pcs)	0	0
SD300 con	nector (pcs)	0	0
Average v	veight (g)	287	318
No	ote		

### Front Derailleur

Sei	SHIMANO GRX			
Mode	FD-RX815-F			
		1	Series Color	
Color		2	-	
	Fr	ont	2	
Speeds	Ro	ear	11	
Compati	ble chain		HG-EV 11-speed/ HG-X11	
A -41	TOP S	SWING	-	
Action	Down	Swing	1	
		28.6	-	
	Clamp Band (mm)	31.8	-	
Mount	(11111)	34.9	-	
	Braz	ed-On	1	
Chain li	ne (mm)		46	
Chain stay	61-66			
Top gea	46-48T			
Total c	17T			
Link bu	2			
Front claws board	Material		-	
Front clamp band	Fir	nish	-	
Rear clamp band.	Mat	terial	Aluminum	
Rear clamp band, base bracket	Fir	nish	Painted	
Outer link	Mat	terial	CFRP	
Outer link	Fir	nish	Painted	
Inner link	Mat	terial	Steel	
inner ink	Fir	nish	Plated	
Chain guide	Mat	terial	Steel	
Chain guide	Fir	nish	Chrome plated	
Maste	er unit		-	
Firmware update b	y E-TUBE F	PROJECT	✓	
SD50 po	1			
SD300 p		0		
SD50 conn	ector (pcs)		0	
SD300 coni	nector (pcs)	)	0	
Average weight (g) direct typ	) (Band typ e w/ bolt)	e: L size,	135	
No	Note			

#### DI2 Spec GRAVEL/ ADVENTURE ROAD

## Shifting/Brake Lever

Sei	ries	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Model no.		ST-R9150-R	ST-R9150-L	ST-R9160-R	ST-R9160-L	ST-R8050-R	ST-R8050-L
Lever	type	DUAL CONTROL LEVER	DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Chifsing laves	Front speeds	-	2	SYNCHRONIZED SHIFT	SYNCHRONIZED SHIFT	-	2
Shifting lever specifications	Rear speeds	11	-	Outward (default)	Inward (default)	11	-
	Remote switch	✓	✓	-	-	✓	✓
	Reach adjust	1	1	1	1	1	1
Brake lever specifications	Clamp band (mm)	23.8/24.2	23.8/24.2	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	23.8/24.2	23.8/24.2
	SLR-EV	1	<b>√</b>	1	1	1	1
Bracket	Material	CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
Вгаскет	Finish	-	-	-	-	-	-
Electric button	Material	GFRP	GFRP	CFRP	CFRP	GFRP	GFRP
Electric button	Finish	-	-	-	-	-	-
Lever	Material	CFRP	CFRP	CFRP	CFRP	Aluminum	Aluminum
Lever	Finish	Painted	Painted	Painted	Painted	Anodized	Anodized
Maste	er unit	-	-	-	-		-
Firmware update b	y E-TUBE PROJECT	1	✓	✓	1	1	✓
SD50 po	ort (pcs)	2	2	1	1	2	2
SD300 p	ort (pcs)	0	0	0	0	0	0
SD50 conn	ector (pcs)	0	0	0	0	0	0
SD300 coni	nector (pcs)	0	0	0	0	0	0
Port for remote sp	orinter shifter (pcs)	1	1	0	0	1	1
Average v	weight (g)	230	230 (/pair)	127 (/pair)	127 ( /pair)	295 ( /pair)	295 ( /pair)
No	ote	-	-	-		-	-

Ser	Series		SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Mode	el no.	ST-R8060-R	ST-R8060-L	ST-6870	ST-6871
Lever	type	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER		
Chifting lavor	Front speeds	SYNCHRONIZED SHIFT	SYNCHRONIZED SHIFT	2	2
Shifting lever specifications	Rear speeds	Outward (default)	Inward (default)	11	11
	Remote switch	-		-	-
	Reach adjust	1	1	1	1
Brake lever specifications	Clamp band (mm)	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	23.8/24.2	INNER DIA. 19.0 - 22.5
	SLR-EV	1	1	1	1
Bracket	Material		GFRP	GFRP	CFRP
Вгаскет	Finish		-	-	-
Electric button	Material	CFRP	CFRP	GFRP	GFRP
Electric button	Finish	-	-	-	-
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
Lever	Finish	Anodized	Anodized	Painted	Anodized
Maste	er unit	-	-	-	-
Firmware update b	y E-TUBE PROJECT	✓	✓	✓	✓
SD50 pc	ort (pcs)	1	1	4	0
SD300 p	ort (pcs)	0	0	0	0
SD50 conn	ector (pcs)	0	0	0	2
SD300 conr	nector (pcs)	0	0	0	0
Port for remote sp	rinter shifter (pcs)	0	0	2	0
Average v	weight (g)	138 ( /pair)	138 ( /pair)	303.2 ( /pair)	148 ( /pair)
No	ote	-	-	-	-

SW

FD

SMAD

RD

FD

sт

ST

SW

RD

FD

SMAD

SG

MU

EW

GM

WU

ВТ

BM

SMBT

SMBC

ВСС

SMPCE

SMCB SMCA

## Shifting/Brake Lever (Hydraulic Disc Brake)

Ser	ies		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Mode	Model no.		ST-R9170-R	ST-R9170-L	ST-R9180-R	ST-R9180-L	ST-R8070-R	ST-R8070-L
	Model no.		Series color	Series color	Series color	Series color	Series color	Series color
Color	2		-	-	-	-	-	-
Shifte	r type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shifter type  Front speeds		-	2	-	2	-	2	
	Rear speeds Remote switch Master unit		11	-	11	-	11	-
			<b>~</b>	✓	-	-	1	1
			-	-	-	-	-	-
Shifting lever	Firmward by E-TUBE	e update PROJECT	1	✓	1	1	1	1
specifications	Compati deraille	ible rear ur type	Road 11-speed	Road 11-speed	Road 11-speed	Road 11-speed	Road 11-speed	Road 11-speed
	Shiftin position	g lever n adjust	-	-	-	-		-
	Multipl	2 step	-	-	-	-	-	-
	e input	Hold	<b>✓</b>	•	✓	1	4	1
	Suspensio	on switch	-	-	-	-		-
	Lever size	_	-	-	-	-	-	-
	Brake hose (Kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SS	SM-BH90-JK-SS	SM-BH90-JK-SSR	SM-BH90-JK-SSR
Hose joi		_	Straight	Straight	Straight	Straight	Straight	Straight
ho	Brake hose color	1	Black	Black	Black	Black	Black	Black
	(kit)	2	-	-		-	-	-
Brake lever	Recomr brake	nended caliper	BR-R9170	BR-R9170	BR-R9170	BR-R9170	BR-R8070	BR-R8070
specifications	Brake fluid	SHIMA NO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach	Toolless	-	-	-	-	-	-
	adjust	Tool	1	1	<b>Y</b>	1	1	✓
	Funnel b	oleeding	1	1	1	1	1	1
	Free stro	ke adjust	1	1	-	-	✓	✓
	SERVO	WAVE			-	-	-	-
	Open	clamp	-	-	-	-	-	-
Clamp band	Inner di	iameter	23.8 - 24.2	23.8 - 24.2	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	23.8 - 24.2	23.8 - 24.2
Bracket	Mat	erial	CFRP	CFRP	Aluminum	Aluminum	CFRP	CFRP
	Fin	ish	-	-	-	-	-	-
Electric button	Mat	erial	-	-	CFRP	CFRP	-	-
	Fin	ish	-	-	-	-	-	-
Shifter Lever body	Ma	ain	CFRP	CFRP	-	-	GFRP	GFRP
	Rele	ease	-	-	-	-	-	-
Lever		erial	Carbon	Carbon	CFRP	CFRP	Aluminum	Aluminum
		ish	Painted	Painted	Painted	Painted	Painted	Painted
Master cylinder		erial	CFRP	CFRP	-	-	CFRP	CFRP
		ish	-	-	-	-	-	-
SD50 pc			2	2	1	1	2	2
SD300 p			0	0	0	0	0	0
SD300 conn	ector (pcs)		0	0	0	0	0	0
Port for remote sp			0	0	0	0	0	0
Average v		c. (pts)	160	160	99	99	180	180
No.			100	100	33	33	130	100
, NC								

#### DI2 Spec ROAD

## Shifting Switch

Series	SHIMANO	DURA-ACE	SHIMANO	SHIMANO	SHIMANO
Model no.	SW-R9150	SW-R9160	SW-R671	SW-R610	SW-R600
Switch type	Option SW, pair	Bar-end SW for TT, pair	Remote Triathlon shifter Current 2 button design, pair	Remote sprinter shifter, pair	Remote satellite shifter (Climbing shifter)
Position	On road Bar	DH Bar	DH Bar	Anywhere	Anywhere
Compatible electric wire	EW-SD50	EW-SD50	EW-SD50	-	EW-SD50
Master unit	-	-	-	-	-
Firmware update by E-TUBE PROJECT	1	1	1	-	✓
SD50 port (pcs)	0	2	0	0	0
SD300 port (pcs)	0	0	0	0	0
SD50 connector (pcs)	2	0	2	0	1
SD300 connector (pcs)	0	0	0	0	0
Connector for remote sprinter shifter (pcs)	0	0	0	2	0
Port for remote sprinter shifter (pcs)	0	0	0	0	0
Average weight (g)	12 ( /pair)	40 (/pair)	100 ( /pair)	5.8 ( /pair)	19 ( /pc)
Note					



SVV

RD

FD

SMAD

DD

CT

ST

SW

RD

FD

SMAD

SG

MU

EWC

GM

WU

JC

вт

BIVI

SMBT

SMBC

ВСС

SMPCE

SMCB SMCA

### Rear Derailleur

Series		DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Model no.		RD-R9150	RD-R8050-SS	RD-R8050-GS	RD-6870-SS	RD-6870-GS	RD-RX805-GS
Pulley	/ cage	SS	SS	GS	SS	GS	GS
Rear s	peeds	11	11	11	11	11	11
	SHADOW RD	✓	1	1	-	-	-
Top-Normal spring type	SHADOW RD+	-	-	-	-	-	1
	type SHADOW RD+  Double servo		-	-	1	1	-
Max front	difference	16T	16T	16T	16T	16T	16T
Total ca	apacity	33T	33T	37T	33T	37T	39T
Max. low	sprocket	30T	30T	34T	28T	32T	34T
Min. low	sprocket	25T	25T	28T	23T	28T	28T
Max. top	sprocket	14T	14T	12T	14T	12T	11T
Min. top	sprocket	11T	11T	11T	11T	11T	11T
Mount	Riveted adapter available	-	-	-		<b>1</b>	-
	Direct attachment	✓	<b>√</b> *	<b>√</b> *	1	1	<b>√</b> *
Fluoric coated	d link bushing	4	4	4	4	4	4
11T p	oulley	✓	✓	1	1	•	11T
Sealed bearing	Sealed bearing guide pulley		✓	1	1	1	1
Sealed bearing	Sealed bearing tension pulley		✓	1	1	1	1
Bracket hedy	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Bracket body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Plate body	Material	CFRP	GFRP	GFRP	CFRP	CFRP	Aluminum
Flate body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer link	Finish	Anodized	Painted	Painted	Painted	Painted	Painted
Inner link	Material	CFRP	GFRP	GFRP	Steel	Steel	GFRP
illier lilik	Finish	Painted	-	-	Painted	Painted	-
Outer plate	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer place	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
illiei piate	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Maste	er unit	•	-	-	-	-	-
Firmware update b	y E-TUBE PROJECT	*	1	1	1	✓	1
SD50 po	ort (pcs)	1	1	1	1	1	1
SD300 p	ort (pcs)	0	0	0	0	0	0
SD50 conn	ector (pcs)	0	0	0	0	0	0
SD300 conr	nector (p <mark>cs)</mark>	0	0	0	0	0	0
Average v	weight (g)	197	240	247	257	268	280
No	ote	w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available			* w/o Bracket spec available

#### DI2 Spec ROAD

#### Front Derailleur

Se	ries		DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Mod	el no.		FD-R9150	FD-R8050	FD-6870-F
	del no.		Series color	Series Color	Series color
Color	2		-	-	-
C	Front		2	2	2
Speeds	Re	ar	11	11	11
Compati	ble chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11
Action	TOP S	WING	-	-	-
Action	Down	Swing	<b>~</b>	1	✓
	Cl	28.6	-	-	-
84	Clamp Band (mm)	31.8	-	-	-
Mount	()	34.9	-	-	-
	Braze	d-On	<b>~</b>	1	<b>~</b>
Chain li	ne (mm)		43.5	43.5	43.5
Chain stay	angle (deg.)	1	61 - 66	61 - 66	61 - 66
Top gea	Top gear teeth		50T-55T	46T-53T	46T-53T
Total c	Total capacity		16T	16T	16T
Link bushings		4	2	4	
Front clamp band	Mat	erial	-	-	-
Front clamp band	Fin	ish	-	-	
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Anodized	Painted	Painted
Outer link	Material		CFRP	CFRP	CFRP
Outer link	Material Finish		Painted	Painted	Painted
Inner link	Mat	erial	Titanium	Steel	Steel
miner mix	Fin	ish	-	Plated	Plated
Chain guide	Mat	erial	Aluminum	Steel	Steel
Chain galae	Fin	ish	Nickel plated	Chrome plated	Chrome plated
Maste	er unit		-		-
Firmware update l	y E-TUBE P	ROJECT	1	1	<b>/</b>
SD50 p	ort (pcs)		1	1	1
SD300 p	ort (pcs)		0	0	0
SD50 conr	ector (pcs)		0	0	0
SD300 con	nector (pcs)		0	0	0
Average weight (g direct typ	) (Band type e w/ bolt)	e: L size,	104	132	138.5
No	ote				

## Front Derailleur (Adapter)

Ser	ries	DURA-ACE	DURA-ACE
Mode	el no.	SM-AD91-L	SM-AD91-MS
Front Clamp Band	Material	Aluminum	Aluminum
Front Clamp Band	Finish	Painted	Anodized
David Clause David	Material	Aluminum	Aluminum
Rear Clamp Band	Finish	Painted	Anodized
	28.6	-	<b>√</b> *
Clamp band (mm)	31.8	-	✓
	34.9	1	-
No	ote		* w/ Multi Clamp Band

SW

RD

FD SMAD

DD

ILD

FD

ST

RD

SMAD

\_\_\_\_

sg MU

EVV

EVVC

GM

WU

---

JC

JC

эт

BM

SMBT

SMBC

SIVIBC

BCC

SMPCE

SMCB SMCA

### Internal Geared Hub

Ser	ies	SHIMANO ALFINE	SHIMANO ALFINE	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Mode	el no.	SG-S7051-11	SG-S7051-8	SG-C6061-8V	SG-C6061-8R	SG-C6061-8C	SG-C6061-8D
Function	n name	INTER-11	INTER-8	INTER-8	INTER-8	INTER-8	INTER-8
	1	Silver	Silver	Silver	Silver	Silver	Silver
Color	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Brake type	Mount Type	CENTER LOCK disc brake	CENTER LOCK disc brake	V-BRAKE	INTER-M	Coaster Brake	CENTER LOCK disc brake
brake type	Recommnended Model	-	-	-	-	-	-
Spe	eds	11	8	8	8	8	8
	Total	409%	307%	307%	307%	307%	307%
	1	0.527	0.527	0.527	0.527	0.527	0.527
	2	0.681	0.644	0.644	0.644	0.644	0.644
	3	0.770	0.748	0.748	0.748	0.748	0.748
	4	0.878	0.851	0.851	0.851	0.851	0.851
G0-11 11-43 -	5	0.995	1	1	1	1	1
Gear ratio	6	1.134	1.223	1.223	1.223	1.223	1.223
	7	1.292	1.419	1.419	1.419	1.419	1.419
	8	1.462	1.615	1.615	1.615	1.615	1.615
	9	1.667	-	-		-	-
	10	1.888	-			-	-
	11	2.153	-	-		-	-
Shifting S	Structure	DI2	DI2	DI2	DI2	DI2	DI2
Silent	clutch	1	✓	1	1	1	1
Gear change sup	port mechanism	1	✓	1	1	1	1
Shifting POWER	R MODULATOR	✓	<b>✓</b>	1	1	1	1
Driving e	fficiency	HIGH	High	High	High	High	High
w/ Left han	ıd dust cap	-	-	1	-	-	-
O.L.D.	(mm)	135	135	135	135	135	135
Spoke	size	#13 / #14	#13 / #14	#13 / #14	#13/#14	#13/#14	#13/#14
	28H	1	-	-	-	-	-
	32H	1	1	-	-	1	1
Spoke hole	36H	1	1	1	1	1	1
	Others		-	-	-	-	-
	182	-	-	-	-	-	-
	184		-	-	-	-	-
Axle length (mm)	187	_	1	1	1	1	1
ľ	193	-	-	-	-	-	-
ľ	Others		-	-	-	-	-
Flange dist	ance (mm)	57.3	57.3	58.3	58.3	58.3	57.3
Flange dian	neter (mm)	104.3	104.3	105.2	105.2	105.2	105.2
	Right	3.2	3.2	3.2	3.2	3.2	3.2
Flange width (mm)	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset	(mm)	3.15	3.15	3.1	3.1	3.7	3.4
P.C.D Left / I	Right. (mm)	92.6	92.6	92.6	92.6	92.6	92.6
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Average v	veight (g)	1665	1670	1685	1660	2040	1680
	te						

#### DI2 Spec URBAN

### Internal Geared Hub

Ser	ries	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Mode	el no.	SG-C6061-8CD	SG-C7050-5V	SG-C7050-5R	SG-C7050-5C	SG-C7050-5D
Functio	n name	INTER-8	INTER-5E	INTER-5E	INTER-5E	INTER-5E
	1	Silver	Silver	Silver	Silver	Silver
Color	2	Black	Black	Black	Black	Black
	3	-	-	-	-	-
Burlin Arm	Mount Type	Coaster and Special disc brake mount for SM-RTC60	V-BRAKE	INTER-M	Coaster brake	CENTER LOCK disc brake
Brake type	Recommnended Model	-	-	BR-C6000 BR-C3010 BR-C3000	-	-
Spe	eds	8	5	5	5	5
	Total	307%	263%	263%	263%	263%
	1	0.527	1	1	1	1
	2	0.644	1.277	1.277	1.277	1.277
	3	0.748	1.622	1.622	1.622	1.622
	4	0.851	2.07	2.07	2.07	2.07
	5	1	2.63	2.63	2.63	2.63
Gear ratio	6	1.223	-	-	-	-
	7	1.419	-	-	-	-
	8	1.615	-	-		-
	9	-	-	A		-
	10	-	-	-		-
	11	-	-		-	-
Shifting :		DI2	DI2	DI2	DI2	DI2
Silent		√ ·	<b>√</b>	1	√	<b>√</b>
Gear change sup		· ·	<b>-</b>	1	1	<b>√</b>
	R MODULATOR	1	7		1	1
Driving e		High	High	High	High	High
	-		√ ·	-	-	-
w/ Left har	<u> </u>	135	135	135	135	135
	(mm)			#13/#14		
Spok	28H	#13/#14	#13/#14		#13/#14	#13/#14
Spoke hole	32H	1		-	1	1
	36H			•	<b>✓</b>	<b>√</b>
	Others		-	-	-	-
	182		-	-	-	-
	184		-	-	-	-
Axle length (mm)	187	1	1	<b>1</b>	<b>✓</b>	<b>√</b>
	193	-	-	-	-	-
	Others		-	-	-	-
Flange dist		58.3	58.3	58.3	58.3	57.3
Flange diar	meter (mm)	105.2	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2
_	Left	3.2	3.2	3.2	3.2	3.2
	: (mm)	2.7	3.7	3.7	3.7	3.2
P.C.D Left /	Right. (mm)	92.6	92.6	92.6	92.6	92.6
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Average v	veight (g)	2080	1670	1670	1970	1670
No	ote					

SW

RD

FD SMAD

SC

SL

RD

10

SW

RD

FD SMAD

s.c.

MU

EVV

EW/C

GM

WU

\_

ВТ

BM

SMBT

SMBC

BCC

SMPCE

SMCB SMCA

### **Motor Unit**

Sei	SHIMANO		
Mode	el no.	MU-UR500	
	1		
Color	2	-	
	3	-	
Compatible inte	SG-S705 SG-S7051 SG-C6060 SG-C6061 SG-C7050		
Compatil	ole speed	11/8/5-speed	
Maste	er unit	-	
Firmware update b	y E-TUBE PROJECT	✓	
SD50 po	ort (pcs)	1	
SD300 p	ort (pcs)	0	
	ort (pcs) ector (pcs)	0	
SD50 conn		-	



#### DI2 Spec URBAN GENERAL

FI	ectric	Wire
LI	CLUIL	VVIIC

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-SD300	EW-SD300-I	EW-SD50	EW-SD50-I
Туре	For external routing	For built-in routing	For external routing	For built-in routing
Compatible system	E-TUBE system	E-TUBE system	E-TUBE system	E-TUBE system
SD50 port (pcs)	0	0	0	0
SD300 port (pcs)	0	0	0	0
SD50 connector (pcs)	0	0	2	2
SD300 connector (pcs)	2	2	0	0
Cord diameter	ø2.4	ø2.4	ø2.8	ø2.8
Plug diameter	ø3.45	ø3.45	ø5.1	ø5.1
Note	Cable length:150-1600 mm	Cable length:150-1600 mm	Cable length: 150 - 1,600 mm* * 1,600 mm is for E- BIKE usage only	Cable length: 150 - 1,600 mm* * 1,600 mm is for E- BIKE usage only

### **Cord Cover**

Series		SHIMANO	SHIMANO
Model no.		SM-EWC2	EW-CC300
Specification		Long/Short	Long
	1 Black		Black
Color	2	White	White
	3	-	-
Len	Length		300 mm
Compatible electric wire		EW-SD50	EW-SD300
No	ote		

#### **Grommet**

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model <mark>no.</mark>	EW-GM300-S	EW-GM300-M	SM-GM01	SM-GM02
Compatible elec <mark>tric w</mark> ire	EW-SD300	EW-SD300	EW-SD50	EW-SD50
Hole dimension on frame	6 mm circle	7 x 8 mm	6 mm circle	7 x 8 mm
Note				

SW

RD

FD SMAD

SC

SL

RD

FD

ST

ST

SW

RD FD

SMAD

SG

MU

EWC

GМ

WU

С

JC

ВТ

BM

SMBT

SMBC

ВСС

SMPCE

SMCB SMCA

### Wireless Unit

		SHIMANO		
Sei	Series			
Mode	el no.	EW-WU111		
Wireless	system	ANT private* Bluetooth®LE		
Maste	er unit	-		
Firmware update k	y E-TUBE PROJECT	1		
SD50 po	ort (pcs)	2		
SD300 p	ort (pcs)	0		
SD50 conn	ector (pcs)	0		
SD300 con	nector (pcs)	0		
Compatib	Compatible system			
	Gear position	1		
	DI2 Battery level	1		
Function **	Adjust mode display	1		
	Suspension mode	1		
	Shift mode	1		
No	* ANT private has compatibility with ANT+ cycle computer but not freely open profile ** Display function depends on the specification of cycle computer			



Se	Series		SHIMANO	SHIMANO
Model no.		EW-RS910	SM-EW90-A	SM-EW90-B
Ту	pe	Built-in type	External type	External type
Posi	ition	In side of frame or handle	Under stem	Under stem
Wireles	s system	- 4	-	-
Compatib	ole system	E-TUBE	E-TUBE	E-TUBE
Compatible	electric wire	EW-SD50	EW-SD50	EW-SD50
Maste	er unit	-	-	-
Firmware update l	oy E-TUBE PROJECT	^	<b>~</b>	✓
SD50 p	ort (pcs)	2	3	5
SD300 p	oort (pcs)	0	0	0
SD50 conn	ector (pcs)	0	0	0
SD300 con	nector (pcs)	0	0	0
Connector for rem (Q	ote sprinter shifter TY)	0	0	0
Port for remote sp	rinter shifter (QTY)	0	0	0
Charging	port (QTY)	1	1	1
	Gear position	1	1	1
	DI2 Battery level	1	1	1
Function	Adjust mode display	1	1	1
	E-TUBE connection	1	✓	1
Average v	weight (g)	11	10	13
No	ote			

#### DI2 Spec GENERAL

### Junction [B]

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-AD305	EW-JC302	EW-JC304	EW-JC200	EW-JC130-SS	EW-JC130-SM
Туре	Conversion adapter	2 ports junction	4 ports junction	2 ports junction	Y-split routing-SS	Y-split routing-SM
Master unit	-	-	-	-	-	-
Firmware update by E-TUBE PROJECT	-	-	-	-	-	-
SD50 port (pcs)	1	0	0	2	0	0
SD300 port (pcs)	1	2	4	0	0	0
SD50 connector (pcs)	0	0	0	0	3	3
SD300 connector (pcs)	0	0	0	0	0	0
Average weight (g)				-	-	-
Note					Cable length 250 mm 350 mm 50 mm	Cable length 450 mm 350 mm 50 mm

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-JC130-MM	SM-JC41	SM-JC40
Туре	Y-split routing-MM	Built-in type	External type
Master unit	-	-	-
Firmware update by E-TUBE PROJECT	-	-	
SD50 port (pcs)	0	4	4
SD300 port (pcs)	0	0	0
SD50 connector (pcs)	3	0	0
SD300 connector (pcs)	0	0	0
Average weight (g)	-	4.1	8.6
Note	Cable length 550 mm 550 mm 50 mm		

### Battery

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	BT-DN110-A	BT-DN110	SM-BTR1
Туре	Built-in battery	Built-in battery	External
Chemistry	Li-lon	Li-Ion	Li-lon
Rated voltage (V)	7.4	7.4	7.4
Rated capacity (Ah)	0.5	0.5	0.5
Rated capacity (Wh)	3.7	3.7	3.7
Compatible charger	SM-BCR2	SM-BCR2	SM-BCR1
Master unit	1	1	-
Firmware update by E-TUBE PROJECT	1	1	-
SD50 port (pcs)	1	1	0
SD300 port (pcs)	0	0	0
SD50 connector (pcs)	0	0	0
SD300 connector (pcs)	0	0	0
Average weight (g)	50	50	70
Note	Type1: w/ Recycle mark Type2: w/o Recycle mark Type3: for Korean market	Type1: w/ Recycle mark Type2: w/o Recycle mark Type3: for Korean market	Type1: w/ Recycle mark Type2: w/o Recycle mark

200

FD

SMAD

SL

RD

FD

...

SW

RD

FD SMAD

SG

MU

GM

wu

\_

BM

SMBT

SMBC

BCC

SMPCE

SMCB SMCA

## **Battery Mount**

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	BM-DN100-S	BM-DN100-L	BM-DN100-I
Specification	Short size battery mount	Long size battery mount	Long size battery mount
Wire routing	External/Internal	External	Internal
Master unit	1	1	1
Firmware update by E-TUBE PROJECT	1	1	1
SD50 port (pcs)	1	1	1
SD300 port (pcs)	0	0	0
SD50 connector (pcs)	0	0	0
SD300 connector (pcs)	0	0	0
Note	-	-	-

## **Battery Case**

Sei	SHIMANO	
Mode	el no.	SM-BTC1
Cu a sifi anti a u	w/ Junction	<b>√</b> *
Specification	w/o Junction	✓
Мо	unt	Bolt on bottle cage mounting thread
	SD50 port (pcs)	6 *
	SD300 port (pcs)	0
	SD50 connector (pcs)	0
Junction	SD300 connector (pcs)	0
	Compatible battery	BT-DN110 BT-DN110-A
	Compatible electric wire	EW-SD50
	Battery charging port	
No	* w/ Junction spec include one special cable for connecting battery and junction	

## Battery Charger

Series	SHIMANO	SHIMANO
Model no.	SM-BCR2	SM-BCR1
Compatible battery	BT-DN110 BT-DN110-A	SM-BTR1
Charging cord	Including SM-BCR2	SM-BCC1
Note	PC linkage device with limited function	

#### DI2 Spec GENERAL

## Charger Cord

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	SM-BCC1-1	SM-BCC1-2	SM-BCC1-3	SM-BCC1-4	SM-BCC1-5	SM-BCC1-6
Plug type	Type C	Type A	Type A	Type O	Type A	Type BF
Typical example country/Region	Europe	USA Canada	Japan	Australia New Zealand	China	U.K
Rated power input (V)	220/230	120	100	240	220	230/240
Cable length (m)	1	2	1	1	1	1
Note						

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	SM-BCC1-7	SM-BCC1-8	SM-BCC1-9	SM-BCC1-10	SM-BCC1-11	SM-BCC1-12
Plug type	Type C	Type A	Type B3L	Type O	Type C	Type C
Typical example country/Region	Korea	Taiwan	South-Africa	Argentina	Israel	Brazil
Rated power input (V)	220	110	220/230	220	230	127/220
Cable length (m)	1	1	1	1	1	1
Note						

Series	SHIMANO
Model no.	SM-BCC1-13
Plug type	Туре С
Typical example country/Region	Thailand
Rated power input (V)	250
Cable length (m)	1
Note	

## PC Linkage Device

Series	SHIMANO
Model no.	SM-PCE02
USB port (pcs)	Micro: 1
SD50 port (pcs)	0
SD300 port (pcs)	0
SD50 connector (pcs)	0
SD300 connector (pcs)	0
PC link port (pcs)	1
LED	Green: 1
Note	

SW

RD

FD SMAD

\_

SI .

RD

FD

ST

\_\_\_

FD

SMAD

MU

EW

- 44 C

GM

WU

DT

вм

SMBT

SMBC

ВСС

**SMPCE** 

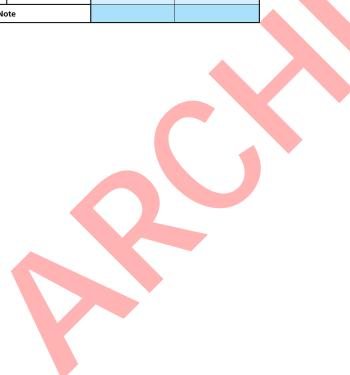
SMCB SMCA

### **Cord Band**

Series		SHIMANO	SHIMANO	SHIMANO
Mode	el no.	EW-CB300-S	EW-CB300-M	EW-CB300-L
Spec		Cord Band S	Cord Band M	Cord Band L
Compatible electric wire		EW-SD300	EW-SD300	EW-SD300
Handle bar diameter		ø22.2	ø31.8	ø35
Callan	1	Black	Black	Black
Color	2	-	-	-
Note				

## **Cord Crip**

Sei	ries	SHIMANO	SHIMANO
Model no.		EW-CL300-S	EW-CL300-M
Compatible electric wire		EW-SD300	EW-SD300
Clamp diameter		ø2.3 / ø4 for shift outer casing	ø2.3 / ø5 for brake hose
Color	1	Black	Black
Color	2	-	-
No	ote		



## E-BIKE

	Page	
Cycle Computer	244	SC
Switch Unit	246	sw
<b>Drive Unit</b>	248	DU
<b>Drive Unit Cover</b>	250	SMDU
Speed Sensor Unit	251	SMDU
Disc Brake Rotor	251	RT
Crankarm	252	FC
Chainring Unit	253	SMCR
Chain Device	255	SMCD
Battery	256	ВТ
Battery Mount	258	вм
Satellite System ON/OFF Switch	259	EWSW
Satellite Charging Port	259	EWCP
<b>Battery Charger</b>	260	EC
DI2 Adapter	263	EWEX
Chain Case Fixing Bolt	263	SMDU

## Cycle Computer

Model no.   S.C.4900	Ser	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Color I Sandard Sandar	Mode	el no	SC-FM800	SC-F8000	SC-F7000	SC-F6100	SC-F5000	SC-F5003
Mourt position	Wood							
Mount position	Color		-	-	-	-	-	-
Mount position   Sight too handfelder		3	-					
Miller Wilness green Wilness green Wilness green Wilness green Buttootheke Bluetootheke Bluetoot	Mount position					•		-
### Writes system ### Device   Am Triviate   Best private   Best p	Wount position							* ✓
### Whetes System ### Bluecocheck ### Bluecoch	Maste	er unit	-				-	-
Firmware update by E-TUBE ROUGET	Wireless	s system		ANT private	ANT private	ANT private	-	-
S3500 part (soc)	Firmware update k	y E-TUBE PROJECT	JIGETOOTH®EE				<b>√</b>	1
Sp30 connector (spc)								0
Spide connector (pics)	SD300 p	ort (pcs)						1
Contents of Display   Contents of Display	SD300 con	nector (pcs)						
Beel Display Change Button  Assist mode for workfor unit)  Inside battery System only flatten  Assist mode flatten					<b>√</b>	•		•
Display Petachable Display Protection Display Protection Display Protection Assist mode change (w/o switch unit) Mose button John Stern Review (w/o witch unit) John Stern Review (w/o witch unit) John Stern Review (w/o witch unit) John Stern Review (w/o witch unit) John Stern Review (w/o witch unit) John Stern Review (w/o witch unit) John Stern Review (w/o witch unit) John Stern Review (w/o witch unit) John Stern Review (w/o witch unit) John Stern Review (w/o witch unit) John Stern Review (w/o w/o w/o w/o w/o w/o w/o w/o w/o w/o								
Display Change Button  Assist mode fame work switch with  I mide battery  System only fame work of the system of t				·				
Assist mode change (w/o switch until) Rept button System explored button Light one/off button Anto Stert & Aust Store In the Contents of Display The time Aust Store In the Contents of Display Average seed Anto Stert & Aust Store In the Contents of Display Average seed Anto Stert & Aust Store In the Contents of Display Average seed Anto Stert & Aust Store In the Contents of Display Average seed Anto Stert & Aust Store In the Contents of Display Average seed Anto Stert & Aust Store In the Contents of Display Average seed Anto Stert & Aust Store In the Contents of Display Average seed Anto Stert & Aust Store Anto Stert & Aust Store Anto Stert & Aust Store Anto Stert & Aust Store Anto Stert & Aust Stert & Aust Store Anto			<b></b>	· · · · · · · · · · · · · · · · · · ·		-		1
Reset button  Trouble Surface  Light enorf button  Assist mord button  Assistance  Assistance  Assistance  Assistance  Assistance  Assistance  Ass			1			/		1
System enrorf batton Light on off button Auto Start 8, Auto Stop Auto Start 8, Auto Stop Auto Start 8, Auto Stop Auto Start 8, Auto Stop Auto Start 8, Auto Stop Auto Start 9, Auto Star								-
Light on/off button  Austo Start & Auro Start & Auro Cock  Austo Start & Auro Cock  Austo Start & Auro Cock  Austo Start & Auro Cock  Austo Start & Auro Cock  Austo Start & Auro Cock  Wilk mode display.  Wilk mode display.  Light condition  Light condition  Automatic shift mode  Automatic shift mode  Automatic shift mode  Automatic shift mode  Automatic shift mode  Ting distance  Automatic shift mode  Automatic shift mode  Ting distance  Automatic shift mode  Ting distance  Automatic shift mode  Automatic shift mode  Ting distance   Inside	battery	✓	✓	✓		-	-	
Assist morl flutton  Auto Staff & Auto Stop  Assist mode display  Assist mode display  Assist mode display  Assist mode display  Assist mode display  Assist mode display  Assist mode display  Assist mode display  Assist mode display  Assist mode display  Assist mode display  Assist mode display  Assist mode display  Assist mode display  Automatic shift mode  Assist mode display  Automatic shift mode  Assist mode display  Aspect of the mode display  Assist mode display  Assist mode displa								-
Auto Start & Auto Stop  Actist of display.  Assist on off!  Walk model display.  Batter, charge level  Genery charge level  Genery could be started to the s			-	-	-			-
Assist mode display Assist node with the state of the sta		& Auto Stop	-	-		_	-	
Assist on/off			1	1				
Walk mode display			<b>√</b>		<u> </u>			-
Light condition  Current speed  Gear Position Display  Automatics hift made  Automatics hift made  Average speed  Owner  Average speed  Owner  For Display  Contents of Display  Goderier  For Message  Gaderiee (pm)  For Message  Gaderiee (pm)  For Message  Gaderiee (pm)  For Message  Goderiee (pm)  For Message  For Mes		Walk mode display	7	1	1			1
Current Speed Gear Position Display Automatic shift mode  Automati			1,					1
Gear Position Display								-
Automatic shift mode		Gear Position Display		·	7	1		V
Maximum speed				-				
Average speed			* /	** /				
Trip distance			1					
Odometer		Trip distance		✓		1		1
Setting menu  Setting menu  Setting menu  Setting menu  Note  Shiffung advise  Language  Note  Setting menu  Setting menu  Setting menu  Setting menu  Setting menu  Setting menu  Setting menu  Setting menu  Setting menu  Setting menu  Setting menu  Setting menu  Setting menu  Setting menu  Note  Setting menu	Contents of Display			·	_ · _			-
Range overview			1		4		•	1
Indicator		Range overview	<i>\</i>	· · · · · · · · · · · · · · · · · · ·				-
Error Message			✓	✓.	-	<b>V</b>	-	-
Cadence (rpm)			✓				✓	<b>✓</b>
Power   Calorie		Cadence (rpm)	1				-	-
Calorie		Human Out put Power	-	-	-	-	-	-
Maintenance alert		Calorie					-	-
ECO cruIsing mode							*** /	*** /
BluetoothelE   Connection status							-	-
Trip Distance reset		Bluetooth®LE	1	_			_	_
Odometer reset				_		-		
Setting menu   Clock adjustment			1			•		
Start mode							-	-
Shifting advise			,				***_	***_
Setting menu   Back light on/off		Shifting advise						
Light on/off					-	-	- - -	- - -
Back light brightness								
Beep on/off		Back light brightness	i	1	-	1		
Font color								
Adjusting for shift	Setting menu		-	-				
Adjusting for auto shift timing		Adjusting for shift	* 🗸	* 🗸				
RD Protection Reset   */		Adjusting for auto		-	* ✓	* ✓	*** -	*** -
Bluetooth@LE pairing		RD Protection Reset	* 🗸	* 🗸	* 🗸	* 🗸	-	-
Connection status		Bluetooth®LE pairing	V	<b>✓</b>	1	1	-	-
Long Distance mode on/off   Riding Characteristic				✓	-	-	-	-
Riding Characteristic Change		Long Distance mode	_	-	_	-	_	_
Assist Customize		Riding Characteristic						
English		Change						
Language	-							
Language    Dutch	Language		7					-
Note   Spanish   V   V   V   V   V   V   V   V   V		Dutch		1	1	1		
Average weight (g)  41  41  32  110  * Left on handlebar (normal specification and I-SPEC EV specification) and I-SPEC EV specification with assist mode  * In case of SEIS  * In case of SEIS  * Note  * In case of SEIS  * PROJECT  * In case of SEIS  * PROJECT  * The case of SEIS  * Option by E-TUBE  * PROJECT  * The case of SEIS  * PROJECT  * The case of SEIS  * PROJECT  * The case of SEIS  * PROJECT  * The case of SEIS  * PROJECT  * The case of SEIS  * PROJECT  * The case of SEIS  * PROJECT  * The case of SEIS  * PROJECT  * The case of SEIS  * PROJECT  * The case of SEIS  * PROJECT  * The case of SEIS  * PROJECT  * The case of SEIS  * The case of SEI	guuge		•					
Average weight (q)  41  2 spec of clamp band diameter 31.8 and 33.0  Note  Note  1 n case of SEIS  * In case of SEIS  * In case of SEIS  * PROJECT  * In case of SEIS  * PROJECT  * PROJECT  * Left on handlebar (normal specification and I-SPEC EV specification) * specification and I-SPEC EV * specification and I-SPEC EV * specification and I-SPEC EV * specification * Left on handlebar (normal specification and I-SPEC EV * specification * Left on handlebar (normal specification and I-SPEC EV * specification * PROJECT  * PROJECT  ** Drive unit setting  * Drive unit setting  * Drive unit setting  * Left on handlebar (normal specification and I-SPEC EV * specification * Specification * Specification * PROJECT  * Drive unit setting * Drive unit setting * Drive unit setting * Drive unit setting * Drive unit setting * The specification and I-SPEC EV * Specification * Specifi								
Note    A specification and l-specification an	Average v							
Note  35.0 mm.  * In case of DI2  **In case of SEIS  **Option by E-TUBE  PROJECT  **In case of SEIS  **Option by E-TUBE  **Option by E-TUBE  **Option by E-TUBE  **Option by E-TUBE  **Option by E-TUBE  **Option by E-TUBE  **Option by E-TUBE  **Option by E-TUBE  **Option by E-TUBE  **Option by E-TUBE  **DIPLET*  **DIPLE			2 spec of clamp band	2 Spec of clamp band				
Note  *In case of DI2 ** In case of SEIS ** Option by E-TUBE PROJECT ** Option by E-TUBE PROJECT ** Option by E-TUBE PROJECT ** Option by E-TUBE PROJECT ** Option by E-TUBE ** Option by			diameter 31.8 and	diameter: 31.8 and	* In case of SEIS	* In case of SEIS	and I-SPEC EV	and I-SPEC EV
** In combination with assist mode with assist mode and the state of SEIS and the state of SEIS are project.  ** Option by E-TUBE and SEICH assist mode are project. The project are project. The project are project. The project are project. The project are project are project. The project are project are project. The project are project are project. The project are project are project. The project are project are project. The project are project are project are project. The project are project are project are project. The project are project are project are project are project. The project are project are project are project are project are project. The project are proje	No	ote	* In case of DI2		** Option by E-TUBE	** Option by E-TUBE	specification)	specification)
with assist inde			** In combination	* In case of SEIS	PROJECT	PROJECT	PROJECT	PRŌJĒCT
Dy E-TUBE PROJECT   By E-TUBE PROJECT				PROJECT			*** Drive unit setting	*** Drive unit setting
	<u> </u>						BY L-TOBE PROJECT	BY L-TUBE PRUJECT

#### E-BIKE

## Cycle Computer

Model no.   EW-EN100	
Color 2 - 3  Center on handlebar - 3  Center on handlebar - 4  Right on handlebar - 5  Others	
Color   2	
3	ı
Right on handlebar   Others   J	
Master unit Wireless system Firmware update by E-TUBE PROJECT SD50 port (pcs) SD300 port (pcs) 0	
Master unit  Wireless system ANT privat Bluetooth® Firmware update by E-TUBE PROJECT SD50 port (pcs) 5D300 port (pcs) 0	
Wireless system ANT privat Bluetooth® Firmware update by E-TUBE PROJECT SD50 port (pcs) 2 SD300 port (pcs) 0	
Firmware update by E-TUBE PROJECT  SD50 port (pcs)  SD300 port (pcs)  0	e
\$D50 port (pcs) 2 \$D300 port (pcs) 0	LE
SD300 port (pcs) 0	
SD50 connector (ncs)	
SD300 connector (pcs) 0  Back Light -	
LCD size (inch)	
Веер -	
Display Detachable - Display Fixation -	
Display Fixation - Display Change Button -	
Assist mode change (w/o switch unit)   ✓	
Reset button -	
Inside battery -	
System on/off button - Light on/off button   ✓	
Assist on/off button -	
Auto Start & Auto Stop -	
Clock - Assist mode display   ✓	
Assist mode display  Assist on/off -	
Walk mode display ✓	
Battery charge level	
Light condition - Current Speed -	
Gear Position Display -	
Start mode -	
Automatic shift mode -	
Maximum speed - Average speed -	
Trip distance -	
Contents of Display Odometer -	
Contents of Display Odometer - Estimated range -	
Range overview -	
Assist power	
indicator	
Error Message Cadence (rpm)	
Human Out put	
Power Calorie -	
Shifting advice -	
Maintenance alert -	
ECO cruising mode Bluetooth®LE	
connection status	
Trip Distance reset -	
Odometer reset - Setting clear -	
Clock adjustment -	
Start mode -	
Shifting advise - ECO cruising setting -	
Back light on/off -	
Light on/off -	
Back light brightness -	
Unit (km/mile)	
Setting menu Font color	
Adjusting for shift * ✓	
Adjusting for auto shift timing	
RD Protection Reset * ✓	
Bluetooth®LE pairing	
Bluetooth®LE/ANT connection status	
Long Distance mode	
on/off	
Riding Characteristic Change	
Assist Customize -	
English -	
German - Dutch -	
French -	
Spanish -	
Average weight (g) 6	
* Set by swit	tch
* Set by swit operation in ca	se of
SEIS	



SC

SW

DU

SMDU

SMDU

{ I

10

SMCR

SMCD

3T

BM

EWSW

EWCP

EWEX

SMDU

### Switch Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SW-EM800-L	SW-E8000-L	SW-E7000-L	SW-E7000-R	SW-E6010-L	SW-E6010-R
Switch type		-	FIREBOLT	-	-	-	-
Color	1	Standard	Standard	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Usa	age	For assist	For assist	For assist	For SEIS shift	For assist	For SEIS shift
Righ	t SW	-	-	-	1	-	✓
Left	: SW	1	1	1	-	1	-
Button nui	mbers (pcs)	2	2	2	2	3	3
Maste	er unit	-	-	-	-	-	-
Firmware update by E-TUBE PROJECT		1	1	1	1	1	✓
SD50 port (pcs)		0	1	0	0	0	0
SD300 port (pcs)		1	0	0	0	0	0
SD50 connector (pcs)		0	0	1	1	1	1
SD300 connector (pcs)		0	0	0	0	0	0
System On-Off		-	-	-	-	-	-
Assist Mo	de Change	1	✓	1		•	-
Display	change	-	-			1	✓
Automatic/M	anual Change	-	=		1	1	•
Light (	On-Off	-	* -	*-	-	*-	-
Baulalulu luuna	2 step	-	-		-	-	-
Multiple input	Hold	* ✓	-	* ✓	** ✓	-	** 🗸
Average weight (g)		24.5	93.2	** 23.9	** 23.9	31.3	31.3
Note		* Set by E-TUBE PROJECT	* By Setting Menu	* Set by E-TUBE PROJECT ** Cable length 700 mm spec. Cable length: 400 mm, 300 mm, 700 mm	* Available for rear derailleur ** Cable length 700 mm spec. Cable length: 400 mm, 300 mm, 700 mm	* By Setting Menu	** Available for rear derailleur



#### E-BIKE

### Switch Unit

Ser	SHIMANO				
Mode	SW-E6000				
Switch	Switch type				
	1	Gray			
Color	2	Black			
	3	-			
Usa	Usage				
Righ	t SW	1			
Left	sw	1			
Button nur	nbers (pcs)	3			
Maste	er unit	-			
Firmware update b	Firmware update by E-TUBE PROJECT				
SD50 po	ort (pcs)	0			
SD300 p	SD300 port (pcs)				
SD50 conn	SD50 connector (pcs)				
SD300 con	SD300 connector (pcs)				
System	System On-Off				
Assist Mod	de Change	1			
Display	Display change				
Automatic/M	Automatic/Manual Change				
Light (	* ✓				
Marking Indiana	2 step	-			
Multiple input	Hold	-			
Average v	25.5				
No	* Set by E-TUBE PROJECT				



DU

SMDU

SMDU

RT.

-C

SMCR

SMCD

ВТ

BIVI

EWSW

EWCP

EC

EWEX

SMDU

### **Drive Unit**

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-EP800	DU-E8000	DU-E8080	DU-E7000	DU-E6100	DU-E6110
	1	Standard	Black	Black	Standard	Standard	Standard
Color	2	-	-	-	-	-	-
	3	-	-	-	-	=	-
Compatible Brake type		Disc brake	Disc brake, V-BRAKE	Disc brake	Disc brake, V-BRAKE	V-BRAKE, Roller brake, Disc brake	Coaster brake
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Posi		Mid ship	Mid ship	Mid ship	Mid ship	Mid ship	Mid ship
Compatible W		1,300 - 3,000	*1,300 - 3,000	*1,300 - 3,000	1,300 - 3,000	1,300 - 3,000	1,300 - 3,000
Continuous Rate	<u></u>	250	250	250	250	250	250
Maximum t Rated \		85 DC 36V	70 DC 36 V	70 DC 36 V	60 DC 36 V	60 DC 36 V	60 DC 36 V
	Internal geared hub	1	-	-	-	✓	1
DI2 compatible	Rear derailleur	1	*✓	*✓	1	1	-
	24 km/h	-	-	1	*✓	*./	-
Maximum support	25 km/h	** ✓	*✓	-	*./	* ✓	*./
bike speed	20 mph Other	** <b>√</b>	*-	-	*-	*-	*.
	Adjustment	-	-	-	-	*/	*/
	Dynamic	-	*✓	-	*✓	-	-
	Moderate	-	-	-	-	-	-
	Explorer	-	*/	-	*/		-
Riding Characteristics	Customize	-	*-/	-	*✓	-	-
maning characteristics	Sportive/Light off- road	-	-			*/	*/
	Comfort	-	-	1	-	*✓	*.
	Profile 1	1	-	-		-	-
	Profile 2	1	-	-	-	-	-
	BOOST HIGH	-	-	-			-
Assist mode	TRAIL	1	1	-,	1	-	-
	NORMAL	-	-	1		J	1
	ECO	✓	✓	1	1	1	✓
Power supply		DC 12 V	DC 6 V	DC 6 V	DC 12 V	DC 12 V	DC 12 V
Power supply Maximum current si	upply front and rear	DC 12 V	DC 6 V	DC 6 V	DC 12 V	DC 12 V	DC 12 V
light to	otal (A)	2.0	2	2	2	2	2
Power supply port		-	-	-	-	-	-
Safe way ho Commu		<b>√</b> E-TUBE	E-TUBE	<b>√</b> E-TUBE	E-TUBE	<b>√</b> E-TUBE	<b>√</b> E-TUBE
	er unit	<b>√</b>	<b>V</b>	Z-100L	✓	<b>√</b>	<b>✓</b>
Firmware update b		1	1	1	1	1	1
SD50 pc		0	2	2	2	2	2
SD300 p SD50 conn		2	0	0	0	0	0
SD300 contr		0	0	0	0	0	0
Port for L		-	-		-	-	-
Terminal fo		1	1	1	1	1	1
Port for Electri	SD50 type	0	- 1	- 1	- 1	- 1	- 1
Port for Speed Sensor (pcs)	SD300 type	1	0	0	0	0	0
Chain case				-	-	1	1
Chain device		<b>✓</b>	1	1	1	-	-
	sensor	1	1	1	1	1	1
	osition sensor ed sensor	*** /	** /	** /	** √	** /	** ✓
	e sensor		1		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<del></del>	7
Cauche	On/Off	** 🗸	1	-	*./	* ✓	* ✓
Walk assist function	Standard	-	1	-	-	-	-
	Intelligent	* ✓	*** ✓	-	**/	***/	***/
	Quick Internal geared hub	1	1	-	1	<b>√</b>	<b>/</b>
	11-speed	7	-	-	-	-	-
	Internal geared hub 8-speed	* ✓	-	-	-	✓	1
Automatic shift	Internal geared hub		_	_	_	_	_
	7-speed	-	-	-	-		
	Internal g <mark>eared</mark> hub 5-speed (INTER-5E)	* ✔	-	-	-	✓	✓
	Rear derailleur	-	-	-	-	-	-
SYMPHOMATIC	Internal geared hub	* 🗸	-	-	-	✓	1
Electronic shift hy	Rear derailleur drive unit control	-	-	-	-	-	-
Electronic shift by drive unit control Compatible bottom bracket type		24 mm Axle Serration			24 mm Axle Serration		
Drive unit fixing bolt (pcs)		6	-	-	-	-	-
Average weight (kg)		2.6	2.88	2.89	2.79	2.76	2.7
		* In case of DI2 ** Set by E-TUBE	* Set by E-TUBE PROJECT	* Set by E-TUBE	* Set by E-TUBE PROJECT	* Set by E-TUBE PROJECT	* Set by E-TUBE PROJECT
	Note		** By using SM-	PRÓJECT	** By using SM-	** By using SM-	** By using SM-
No	ote	PROJECT *** By using FW-	DUF10/SM-DUF11	** By using SM	DUE10/SM-DUE11		DUF10/SM-DUF11
No	ote	*** By using EW- SS300/ EW-SS301	DUE10/SM-DUE11 *** By using RD- M9050/RD-M8050	** By using SM- DUE11	DUE10/SM-DUE11 *** By using RD- M9050/RD-M8050	DUE10/SM-DUE11 *** Only in	DUE10/SM-DUE11  *** Only in combination with DI2

#### E-BIKE

#### **Drive Unit**

Sei	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-E6180	DU-E5000	DU-E5080	DU-E5080-H
1 1		Standard	Standard	Standard	Standard
Color	2	-	-	-	-
3		-	-	-	-
Compatible Brake type		V-BRAKE, Roller brake, Disc brake	V-BRAKE, Roller brake, Disc brake, Coaster brake	V-BRAKE, Roller brake, Disc brake, Coaster brake	V-BRAKE, Roller brake, Disc brake, Coaster brake
	r type	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Posi Compatible W	tion	Mid ship 1,300 - 3,000	Mid ship 1,300 - 3,000	Mid ship 1,300 - 3,000	Mid ship 1,300 - 3,000
Continuous Rate		250	250	250	250
Maximum t	orque (Nm)	60	40	40	40
Rated \	/oltage	DC 36 V	DC 36 V	DC 36 V	DC 36 V
DI2 compatible	Internal geared hub Rear derailleur	<i>1</i>	<b>√</b>	<i>1</i>	1
	24 km/h	1	-	1	1
Manimum	25 km/h	-	*•	=	-
Maximum support bike speed	20 mph	-	*•	-	-
	Other Adjustment	- * <b>√</b>	- * <b>√</b>	- * <b>√</b>	- * <b>√</b>
	Dynamic	-	-	-	-
	Moderate	-	-	=	-
	Explorer	-	-	-	-
Riding Characteristics	Customize Sportive/Light off-	-	-	-	
	road	**	-	-	1
	Comfort Profile 1	*.	<b>√</b>	<b>√</b>	-
	Profile 1	-	-	-	-
	BOOST	-	-	-	-
	HIGH	1	1	1	1
Assist mode	TRAIL NORMAL	-	- -		1
	ECO	1	<b>√</b>	1	1
Power supply for front light		DC 12 V	DC 12 V	DC 12 V	DC 12 V
	for rear light	DC 12 V	DC 12 V	DC 12 V	DC 12 V
Maximum current s		2	2	2	2
	for electric devices	-		-	-
Safe way ho	me function nication	<b>√</b> E-TUBE	E-TUBE	E-TUBE	<b>√</b> E-TUBE
Maste		<b>1</b> -10BL	✓ ✓		<b>√</b>
Firmware update k		✓	1	1	J
SD50 pc		2	1	1	1 0
SD50 conn	ort (pcs) ector (pcs)	0	0	0	0
SD300 coni		0	0	0	0
Port for L		-	•	-	-
Terminal fo		1	1 -	1 -	1
Port for Speed	SD50 type	1	1	1	1
Sensor (pcs)	SD300 type	0	0	0	0
Chain case Chain device		-	1	-	-
Torque		-	-	-	- -
Crank arm po	sition sensor	1	·	-	-
	ed sensor	** ✓	** ✓	** 🗸	** <b>√</b>
Cadence	on/Off		* 🗸	-	-
Walk assist formation	Standard		-	-	-
Walk assist function	Intelligent	-	***	-	-
	Quick Internal geared hub 11-speed		<b>√</b> -	-	-
	Internal geared hub	1	1	1	1
Automatic shift	8-speed Internal geared hub 7-speed	-	-	-	-
	Internal geared hub 5-speed (INTER-5E)	1	1	1	1
	Rear derailleur Internal geared hub	-	- -	- <b>√</b>	- -
SYMPHOMATIC	Rear derailleur	-	-	-	-
Electronic shift by drive unit control		-	1	1	1
Compatible bottom bracket type		24 mm Axle Serration	Square type	Square type	Square type
Drive unit fixing bolt (pcs)  Average weight (kg)		2.81	2.38	2.38	2.38
Note		* Set by E-TUBE PROJECT ** By using SM- DUE10/SM-DUE11	* Set by E-TUBE PROJECT ** By using SM- DUE10/SM-DUE11 *** Only in combination with DI2		* Set by E-TUBE PROJECT ** By using SM- DUE10/SM-DUE11
			COMMUNICION WITH DIZ		

SVV

DU

SMDU

SMDU

{ I

SMCR

SMCD

ВТ

BM

EWSW

EWCP

EC

EWEX

SMDU

### **Drive Unit Cover**

Ser	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	DC-EP800-A	DC-EP800-B	DC-EP800-G	SM-DUE80-A	SM-DUE80-B SM-DUE	
	1	Standard	Standard	Standard	Gray	Gray	Standard
Color	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	Right	-	-	-	✓	✓	✓
Cover	Left	✓	✓	-	✓	✓	1
	Bottom	-	-	✓	-	-	-
Available DU	angle (deg.)	0 - 60	0 - 60	0 - 60	0 - 60	0 - 60	0 - 60
No	ote	-	-	-	Standard cover	Mount bolt cover	-

Sei	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	SM-DUE70-B	SM-DUE70-C	SM-DUE61-T	SM-DUE61-TC	SM-DUE61-C	SM-DUE61-CC
	1	Standard	Standard	Standard	Standard	Black	Black
Color	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	Right	<b>~</b>	-	1	1	1	1
Cover	Left	1	1	1	1	✓	1
	Bottom	-	-	-		-	-
Available DU	angle (deg.)	0 - 60	0 - 60	0 - 60	0 - 60	0 - 60	0 - 60
No	ote	-	-	-	-	-	-

Ser	ries	SHIMANO		SHIMANO			SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	SM-DUE60	SI	л-DUE60-4	15		SM-DUE60-A	SM-DUE60-45A	SM-DUE50-T	SM-DUE50-TC
	1	Gray		Gray		K	Gray	Gray	Standard	Standard
Color	2	Black		Black			Black	Black	-	-
	3	-		-			-	-	-	-
	Right	1		✓			✓	✓	✓	-
Cover	Left	-		-	7		-	-	1	1
	Bottom	-					-	-	-	-
Available DU	angle (deg.)	0		45			0	45	0 - 60	0 - 60
No	ote	7-		_		F	or internal cable routing	For internal cable routing	-	-

Sei	ries	SHIMANO	SHIMANO
Mode	el no.	SM-DUE50-C	SM-DUE50-CC
	1	Black	Black
Color	2	-	-
	3	-	-
	Right	1	-
Cover	Left	1	<b>~</b>
	Bottom	-	-
Available DU	angle (deg.)	0 - 60	0 - 60
No	ote	-	-

## Speed Sensor Unit

Ser	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	EW-SS301	EW-SS300	SM-DUE11	SM-DUE10
Buolso Cuso	Disc	1	1	✓	1
Brake Spec	Rim	-	1	-	1
	1	Black	Black	Standard	Standard
Color	2	-	-	-	-
	3	-	-	-	-
SD50 conn	SD50 connector (pcs)		0	1	1
SD300 con	nector (pcs)	1	1	0	0
	340	-	1	-	1
Califa Israella (suus)	540	-	1	-	1
Cable length (mm)	760	1	1	✓	1
	1400	1	1	-	1
No	ote	w/o Magnet set	Spoke magnet set included	w/o Magnet set	Spoke magnet set included

#### Disc Brake Rotor

Se	ries		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mod	el no.		RT-EM910	RT-EM810	RT-EM600	RT-EM300
CENTE	R LOCK		1	1	1	1
6-bolt (P.C	.D. 44 mm)		-	-		-
ICE TECHI	NOLOGIES		1	1	-	-
ICE TECHNOL	OGIES FREE	ZA	1		-	-
	203	mm	<b>√</b> *	<b>√</b> *	<b>√</b> *	<b>√</b> *
Outside diameter	180	mm	<b>√</b> *	<b>/</b> *	<b>/</b> *	<b>√</b> *
Outside diameter	160	mm	<b>√</b> *	<b>√</b> *	RT-EM600 RT-EM.	<b>√</b> *
	140	mm	-	- /	-	-
Alloy lo	ock ring		1	1	-	-
Adapter	Mat	erial	Aluminum	Aluminum	Aluminum	Steel
Adapter	Fir	ish	Painted	Painted	Painted	Painted
Rotor	Rotor Material		Stainless steel + Aluminum + Stainless steel	Stainless steel + Aluminum + Stainless steel	Stainless steel	Stainless steel
	Fir	ish	Polished	Polished	Polished	Polished
Pad compatibility	Me	etal	1	✓	✓	-
rau compatibility	Re	sin	1	1	✓*  ✓*  ✓*  -  -  Aluminum  Painted  Stainless steel  Polished  ✓  Steel  Plated  Steel	✓
	Internal	Materia I	Aluminum	Aluminum	Steel	-
	type	Finish	Anodized	Anodized	Plated	-
Lock ring	Externa I type	Materia I	Aluminum	Aluminum	Steel	-
	Ttype	Finish	Anodized	Anodized	Plated	-
	Internal	Materia I	-	-	-	Steel
	Externa I type	Finish	-	-	-	Painted
Average weight (	(g) (w/o loc	k ring)	154 (203 mm) 140 (180 mm) 113 (160 mm)	166 (203 mm) 140 (180 mm) 113 (160 mm)		-
No	ote		* For rear only with magnet bracket Painted fin	* For rear only with magnet bracket	* For rear only with magnet bracket	* For rear only with magnet bracket

SC

SW

DU

SMDU

\_\_

RT

FC

SMCR

SMCD

BIVI

EWSW

EWCP

EWEX

### Crankarm

Ser	ries	SHIMANO	SHIMANO DEORE XT	SHIMANO	SHIMANO DEORE XT	SHIMANO	SHIMANO
Mode	el no.	FC-EM900	FC-M8150	FC-EM600	FC-M8050	FC-E8050	FC-E8000
	1	Black	Series Color	Black	Series color	Standard	Standard
Color	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Crankanna tuna	HOLLOWTECH	✓	✓	-	✓	✓	-
Crankarm type	Solid	-	-	1	-	-	1
Q facto	or (mm)	177 (DU-EP800)	177 (DU-EP800)	177 (DU-EP800)	177 180 *	177 180 *	177 180 *
Chain case	compatible	-	-	-	<b>√</b> *	<b>√</b> *	<b>√</b> *
	175	✓	1	1	1	1	1
	170	<b>*</b>	✓	1	1	1	1
Crankarm length (mm)	165	✓	1	1	1	-	1
	160	<b>*</b>	✓	1	-		1
	Others	-	-	-	_	-	-
Crankarm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crankariii	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
BB t	ype	24 mm Axle Serration	24 mm Axle Serration	24 mm Axle Serration	24 mm axle serration	24 mm axle serration	24 mm axle serration
Average v	veight (g)	-	-	-	·	-	-
No	ote		-	-	* In case with DU- E6100/E6110/E6180/ E7000	* In case with DU- E6100/E6110/E6180/ E7000	* In case with DU- E6100/E6110/E6180/ E7000

Ser	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	FC-E6100	FC-E6010	FC-E5000	FC-E5010
	1	Silver	Black	Silver	Standard
Color	2	Black	Gray	-	-
	3	-	-		-
Cuantama tuma	HOLLOWTECH	-	-	-	-
Crankarm type	Solid         Image: Control of the control of th	✓			
Q facto	Q factor (mm)		213	185	185
Chain case	Chain case compatible		1	1	✓
	175	1	1	1	✓
	170	1	1	1	✓
Crankarm length (mm)	165	-	-	1	✓
	160	-	-	-	-
	Others		-	-	-
Cuantianus	Material	Aluminium	Aluminum	Aluminum	Aluminum
Crankarm	nkarm Finish Anodized Painted Painted		Painted		
BB t	куре	24 mm axle serration	Square type	Square type	Square type
Average v	weight (g)	-	-	-	-
No	ote	-	-	-	-

# **Chainring Unit**

Ser	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	SM-CRE80-12-B	SM-CRE80-12-SB	SM-CRE80-B	SM-CRE80-R	SM-CRE80	SM-CRE70-12-B
	1	Black	Black	Black	Black	Black	Black
Color	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Gear	speed	1	1	1	1	1	1
	12-speed	1	1	-	-	-	1
	11-speed	-	-	*•	*•	*•	-
Rear speed	10-speed	-	-	*•	*•	*•	-
	9-speed	-	-	-	-	-	-
	Single	-	-	-	-	-	-
DYNAMIC CHAIN E	NGAGEMENT Plus	✓	1	1	-	<b>√</b> (38T, 34T)	-
	47T	-	-	-	1	-	-
	44T	-	-	-	-	1	-
	42T	-	-	-		-	-
Chainring teeth	38T	✓	-	✓	-		-
	36T	✓	1	-	-		1
	34T	✓	1	1	-	1	-
	Others	-	-			-	-
	Double	-	-			** <b>√</b>	-
Chain guard type	Single	-	-		-	-	-
	w/o CG	✓	1	<b>X</b>	1	Black  1 - ** **	1
Chainring fix	king lock nut	Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit		Included in drive unit
Arm cover outer	r diameter (mm)	-	·	-	-		
Chain device	compatible	1		1	SM-CDE80 (Frame mount)	1	✓
Chain case	compatible	-	-	-	-	-	-
	56.5	-	1	-	-	-	-
	53	1	-	✓	-	-	1
Chain line (mm)	50		-	-	1	**  **  **  -  -  -  -  -  -  -  -  -  -	-
	48	-		-	-	-	-
	46.5	-	-	-	-	-	-
Belt line (mm)	43		-	-	-	-	-
P.C.D.	(mm)	104	104	104	104	104	104
Chainring	Material	Steel	Steel	Steel	Aluminum	Steel	Steel
Chammig	Finish	Plated	Plated	Plated	Anodized	Plated	Painted
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Chainring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
люа	Finish	SP Black	SP Black	SP Black	SP Black	SP Black	SP Black
Spider/G	ear arms	4	4	4	4	4	4
Average v	veight (g)	-	-	-	-	-	-
No	ote	Compatible chain CN-M9100 CN-M8100 CN-M7100	Compatible Chain CN-M9100 CN-M8100 CN-M7100 CN-M6100	* E-BIKE rear derailleur system compatible chain	Compatible Chain CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11 CN-E6090-10	derailleur system compatible chain	Compatible chain CN-M9100 CN-M8100 CN-M7100

SC

SW

DU

SMDU

SMDU

---

SMCR

SMCD

ВТ

BM

EWSW

EWCP

EC

EWEX

# Chainring Unit

Sei	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	SM-CRE70-12	SM-CRE70-B	SM-CRE70	SM-CRE61	SM-CRE50
	1	Black	Black	Black	Dark Gray	Dark Gray
Color	2	-	-	-	Silver (w/o CG only)	-
	3	-	-	-	Black (w/o CG only)	-
Gear	speed	1	1	1	1	1
	12-speed	1	-	-	-	-
	11-speed	-	1	1	1	1
Rear speed	10-speed	-	1	1	1	1
	9-speed	-	1	1	1	
	Single	-	-	-	1	1
DYNAMIC CHAIN I	ENGAGEMENT Plus	-	-	-	-	-
	47T	-	-	-	-	
	44T	-	-	-	1	1
	42T	1	-	-	-	-
Chainring teeth	38T	-	-	1	1	1
	36T	-	-	-	-	-
	34T	-	1			-
	Others	-	-	-		-
	Double	1	-	1	1	1
Chain guard type	Single	-	-		1	1
	w/o CG	-	1	1	<b>V</b>	1
Chainring fix	king lock nut	Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit
Arm cover oute	r diameter (mm)	-	·	-	95 (w/o CG only)	95 (w/o CG only)
Chain device	e compatible	-	1	*✓	-	-
Chain case	compatible	-	-	-	✓	✓
	56.5	-	-	-	-	-
	53		1	-	-	-
Chain line (mm)	Single	-				
	48	-	-	-	-	-
	46.5	Y -	-	-	1	✓
Belt line (mm)	43	-	-	-	-	-
P.C.D.	(mm)	104	104	104	-	-
Chainring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Spider arm	Material	Aluminum	Steel	Aluminum	-	-
- p	Fin <mark>ish</mark>	Painted	Painted	Anodized	-	-
Chainring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
JIOG	Finish	SP Black	SP Black	SP Black	-	-
Spider/G	ear arms	4	4	4	4	4
Average weight (g)  Note		- Compatible chain CN-M9100 CN-M8100 CN-M7100	Compatible Chain CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11 CN-E6090-10 CN-E6070-9	Compatible Chain CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11 CN-E6090-10 CN-E6070-9 * w/o CG, w/o back	* Color of arm	- -

### Chain Device

Sei	ries	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	CD-EM800	SM-CDE80	SM-CDE70
	1	Standard	Standard	Standard
Color	2	-	-	-
	3	-	-	-
	56.5	1	-	-
Chain line (mm)	53	1	✓ (w/ Plate type) ✓ (w/o Plate type)	1
	50	-	- (w/ Plate type)  ✓ (w/o Plate type)	-
	12-Speed	1	1	1
Chain compatibility	11-Speed	1	1	1
Chain compatibility	10-Speed	-	1	1
	9-speed	-	-	1
	38T	*•	1	1
Top Gear Teeth	36T	1	1	✓
	34T	✓	1	✓
	11-36T	-	1	1
	11-40T	-	1	1
	11-42T	-	1	•
Assumed Rear Sprocket Teeth	11-46T	-	1	
	10-45T	1	1	1
	10-51T	1	1	
	Others	-	-	-
Direct Mount	to Drive Unit	1	✓ (w/ Plate type) - (w/o Plate type)	1
Compatible	e Drive Unit	DU-EP800 DU-E8000 DU-E8080 DU-E7000	DU-EP800 DU-E8000 DU-E8080 DU-E7000	DU-EP800 DU-E8000 DU-E8080 DU-E7000
Rear suspension	on stroke (mm)	0 - 170	0 - 170	0 - 170
Park whete	Material	Aluminum	Aluminum (w/ Plate type) - (w/o Plate type)	Steel
Back plate	Finish	Anodized	Anodized (w/ Plate type) - (w/o Plate type)	Painted
Chain guide	Material	Resin	Resin	Resin
Chain guide	Finish		-	-
No	ote	w/ plate *w/ SM-CRE80-B 53.0mm Chain line	w/ Plate, w/o Plate type are available	w/ plate

SC

SVV

DU

SMDU

RT

FC

SMCR

SMCD

ВТ

BM

EWSW

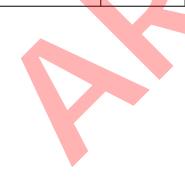
EWCP

EWEX

\_\_\_\_

### Battery

Se	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mod	el no.	BT-E8010	BT-E8014	BT-E8016	BT-E8020	BT-E8035	BT-E8035-L
	1	Black	Standard	Standard	Black	Standard	Standard
Color	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Cher	nistry	Li-lon	Li-lon	Li-lon	Li-lon	Li-lon	Li-lon
Pos	ition	Down tube	Down tube	External	Integrated	Integrated	Integrated
Rated vo	oltage (V)	36	36	36	36	36	36
Rated cap	pacity (Ah)	** 14	** 11.6	** 17.5	14	*** 14	*** 14
Rated cap	acity (Wh)	504	418	630	504	504	504
Cyclelife span fo	or charge (times)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
	SOC = 100%	* 5	* 4	* 6	* 5	* 5	* 5
Time to charge (hour)	SOC = 80%	* 2.5	* 2	* 3	* 2.5	* 2.5	* 2.5
	SOC = 50%	* 2	* 1.5	* 2.5	* 2		* 2
Charge le	vel display	1	✓	<b>*</b>	<	1	1
Error	signal	1	✓	1	<b>V</b>		1
Chargi	ng port	1	✓	<b>*</b>	<b>^</b>	** -	** -
Tail light/Refle	ctor integration	-	-	-	·	-	-
System on	off switch	1	✓	1	1	1	1
Compatible b	pattery mount	BM-E8016	BM-E8016	BM-E8016	BM-E8020	BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B
Compatib	ole charger	EC-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004	EC-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004	EC-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004	EC-E6000 EC-E6002 EC-E8004	EC-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004	EC-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004
Compatible ada	aptor for charge	-		-	-	SM-BTE80	SM-BTE80
	usiaht (ka)	2.6	2.55	3.5	3.05	2.9	3.15
Average v	veight (kg)						
	ote	* By EC-E6000 EC-E6000-3 for Japan BT-E8010 for Japan	* By EC-E6000 EC-E6000-3 for Japan ** BT-E8014 for Japan	* By EC-E6000 EC-E6000-3 for Japan ** BT-E8016 for Japan	* By EC-E6000	* By EC-E6000 EC-E6000-3 for Japan ** with SM-BTE80 or EW-CP100	* By EC-E6000 EC-E6000-3 for Japan ** with SM-BTE80 or EW-CP100



### Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	BT-E8036	BT-E6000	BT-E6001	BT-E6010
	1	Standard	Black	Black	Black
Color	2	-	Gray	Gray	Gray
	3	-	-	-	-
Chen	nistry	Li-lon	Li-lon	Li-lon	Li-lon
Posi	tion	Integrated	Rear carrier	Rear carrier	Down tube
Rated vo	ltage (V)	36	36	36	36
Rated cap	acity (Ah)	*** 17.5	11.6	14	** 11.6
Rated cap	acity (Wh)	630	418	504	418
Cyclelife span fo	or charge (times)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
	SOC = 100%	* 6	* 4	* 5	* 4
Time to charge (hour)	SOC = 80%	* 3	* 2	* 2.5	* 2
	SOC = 50%	* 2.5	* 1.5	* 2	* 1.5
Charge lev	vel display	1	1	1	1
Error	signal	1	1	✓	1
Chargi	ng port	** -	-	-	-
Tail light/Reflec	tor integration	-	-	-,	-
System on	off switch	1	1	1	1
Compatible b	attery mount	BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BM-E6000	BM-E6000	BM-E6010
Compatible charger		EC-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004	EC-E6000 EC-E6002 EC-E8004	EC-E6000 EC-E6002 EC-E8004	EC-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004
Compatible adaptor for charge		SM-BTE80	SM-BTE60	SM-BTE60	SM-BTE60
Average weight (kg)		3.7	2.58	2.65	2.65
Note		* By EC-E6000 EC-E6000-3 for Japan ** with SM-BTE80 or EW-CP100 *** BT-E8036 for Japan	* By EC-E6000	* By EC-E6000	* By EC-E6000 EC-E6000-3 for Japan ** BT-E6010 for Japan (10.9 Ah, 393 Wh, Black only)



SC

SW

DU

SMDU

SMDU

RT

-C

SMCR

SMCD

BT .

BIVI

EWSW

EWCP EC

EWEX

## **Battery Mount**

Ser	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	BM-E8016	BM-E8020	BM-E8030-A	BM-E8030-B	BM-E8031-A	BM-E8031-B
	1	Black	Black	Standard	Standard	Standard	Standard
Color	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Posi	tion	Down tube/ Seat tube	Integrated	Integrated	Integrated	Integrated	Integrated
Chargir	ng port	•	-	-	-	-	-
Lock s	ystem	✓	-	-	-	-	-
Key	hole	-	✓	1	✓	-	-
Connect to	EW-CP100	-	-	1	-	✓	-
System on	off switch	-	-	-	-	-	-
Power cable		<b>~</b>	<b>✓</b>	1	1	✓	✓
	250	✓	1	1	✓	✓	✓
	300	<b>*</b>	-	-	-	-	-
	400	-	✓	1	1	<b>~</b>	✓
Power cable length	600	<b>*</b>	-	-	-	-	-
(mm)	900	•	-	-	-	-	-
	920	•	i	-	-	-	-
	1,000	-	-	-	-	-	-
	1,020	-	-	-	-		-
Cable length to	EW-CP100 (mm)	-	-	200	-	200	-
Compatib	le battery	BT-E8010 BT-E8014 BT-E8016	BT-E8020	BT-E8035 BT-E8035-L BT-E8036	BT-E8035 BT-E8035-L BT-E8036	BT-E8035 BT-E8035-L BT-E8036	BT-E8035 BT-E8035-L BT-E8036
Compati	ible tool	TL-BME02	TL-BME03	TL-BME04 (for BT- E8035) TL-BME05 (for BT- E8035-L/BT-E8036)	TL-BME04 (for BT- E8035) TL-BME05 (for BT- E8035-L/BT-E8036)	TL-BME04 (for BT- E8035) TL-BME05 (for BT- E8035-L/BT-E8036)	TL-BME04 (for BT- E8035) TL-BME05 (for BT- E8035-L/BT-E8036)
Average w	veight (kg)	-	-	* 0.31 (Power cable: 250 mm) * 0.32 (Power cable: 400 mm)	* 0.29 (Power cable: 250 mm) * 0.30 (Power cable: 400 mm)	0.33 (Power cable: 250 mm) 0.34 (Power cable: 400 mm)	0.31 (Power cable: 250 mm) 0.32 (Power cable: 400 mm)
No	te	-		* Without key unit	* Without key unit	-	-

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		BM-E6000-A	ВМ-Е6000-В	BM-E6010
	1		Black	Black
Color	2	Gray	Gray	-
	3	·	-	-
Posi	tion	Rear carrier	Rear carrier	Down tube
Chargii	ng port	* 🗸	* ✓	* 🗸
Lock s	ystem	-	-	-
Key	hole	•	1	✓
Connect to	EW-CP100	•	-	-
System on	off switch		-	-
Power cable		1	✓	✓
	250	-	-	1
	300		-	1
	400	-	-	-
Power cable length (mm)	600	-	-	1
(mm)	900	-	-	-
	920	1	1	-
	1,000	-	-	-
	1,020	✓	✓	-
Cable length to	EW-CP100 (mm)	-	-	-
Compatible battery		BT-E6000 BT-E6001	BT-E6000 BT-E6001	BT-E6010
Compat	ble tool	=	-	TL-BME01
Average w	eight (kg)	-	-	-
No	te	* By EC-E6000	* By EC-E6000	* By EC-E6000

## Satellite System ON/OFF Switch

Series	SHIMANO	SHIMANO
Model no.	EW-SW300	EW-SW100
Position	Integrated	Integrated
Master unit	-	-
Switch QTY (pcs)	1	1
SD50 port (pcs)	0	0
SD300 port (pcs)	0	0
SD50 connector (pcs)	0	1
SD300 connector (pcs)	1	0
Firmware update by E-TUBE PROJECT	1	1
Cable length (mm)	1,100	1100
Average weight (g)	23	25
Note		

## Satellite Charging Port

Series	SHIMANO
Model no.	EW-CP100
Position	Integrated
Compatible battery	BT-E8035 BT-E8036
Compatible battery mount	BM-E8030-A BM-E8031-A
Compatible battery charger	EC-E6000 EC-E6002 EC-E8004
Firmware update by E-TUBE PROJECT	-
Cable length to BM-E803* (mm)	200 550
Average weight (g)	
Note	



DU

SMDU

SMDU

RT

SMCR

SMCD

ВТ

вМ

EWSW

EWCP

EWEX

## **Battery Charger**

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EC-E8004-1	EC-E8004-2	EC-E8004-3	EC-E8004-4	EC-E8004-6	EC-E8004-7
	1	Standard	Standard	Standard	Standard	Standard	Standard
Color	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Plug	type	Type C	Type A	Type A	Type O	Type BF	Type C
Typical example	country/Region	Europe	USA, Canada	Japan	Australia, New Zealand	UK	Korea
Compatible battery		BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8025 BT-E8035 BT-E8035-L	BT-E6010 BT-E8010 BT-E8016 BT-E8014 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8035 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8025 BT-E8035 BT-E8035-L	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036
Compatib	le voltage	100 V - 240 V AC, 50 - 60 Hz	USA, Canada: 120 V AC, 50 - 60 Hz Others: 100 - 240 V AC, 50 - 60 Hz	100 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	100 V - <mark>240</mark> V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz
Out	put	42 V DC, 4 - 4.6 A	42 V DC, 4 A	42 V DC, 4 - 4.6 A	42 V DC, 4 - 4.6 A	42 V DC, 4 - 4.6 A	42 V DC, 4 - 4.6 A
CE sta	CE standard		-	-	-	1	-
UL standard		-	✓		-	-	-
Korea standard		-	-			-	1
Japan s	Japan standard		-	V		-	-
Charging time for 630 Wh (583 Wh in	Full charge (hour)	4.8 (* 5.7)	5.7	5.7	4.8 (* 5.7)	4.8 (* 5.7)	4.8 (* 5.7)
Japan) battery	80% charge (hour)	3.2 (* 4)	4	4	3.2 (* 4)	3.2 (* 4)	3.2 (* 4)
Charging time for 504 Wh (464 Wh in	Full charge (hour)	4 (* 4.5)	4.5	4.5	4 (* 4.5)	4 (* 4.5)	4 (* 4.5)
Japan) battery	80% charge (hour)	2.5 (* 3.2)	3.2	3.2	2.5 (* 3.2)	2.5 (* 3.2)	2.5 (* 3.2)
Charging time for 418 Wh (393 Wh in	Full charge (hour)	3.0 (* 3.5)	3.5	3.5	3.0 (* 3.5)	3.0 (* 3.5)	3.0 (* 3.5)
Japan) battery	80% charge (hour)	2.0 (* 2.5)	2.5	2.5	2.0 (* 2.5)	2.0 (* 2.5)	2.0 (* 2.5)
Charging Le	evel Display		-	-	-	-	-
Plug in cha	rging type	1	1	1	1	✓	1
Charging to	emperature	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C
Storage te	mperature	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Error signal		<b>\</b>	1	1	✓	✓	1
Adapter for battery connecter		** -	* -	* -	** -	** -	** -
Compatible AC power cable			-	-	-	-	-
Built in AC cable		1	✓	1	1	1	✓
Built in AC cal	ole length (m)	2	2	1	1	1	1
Average v	veight (g)						
No	ote	* In case of 100 V AC ** Check latest line-up chart	* Check latest line- up chart	* Check latest line- up chart	* In case of 100 V AC ** Check latest line-up chart	* In case of 100 V AC ** Check latest line-up chart	* In case of 100 V AC ** Check latest line-up chart

## **Battery Charger**

Ser	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EC-E8004-12	EC-E6000-1	EC-E6000-2	EC-E6000-3	EC-E6000-4	EC-E6000-6
	1	Standard	Standard	Standard	Standard	Standard	Standard
Color	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Plug	type	Type C	Type C	Туре А	Type A	Type O	Type BF
Typical example	country/Region	Brazil	Europe	USA, Canada	Japan	Australia, New Zealand	UK
Compatib	le battery	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8035 BT-E8035 BT-E8035-L BT-E8036	BT-E6010 BT-E8010 BT-E8016 BT-E8014 BT-E8035-L BT-E8035-L	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036
Compatib	le voltage	100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	100 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz
Out	put	42 V DC, 4 - 4.6 A	40 V DC, 4.4 A 42 V DC, 4.0 A	40 V DC, 4.4 A 42 V DC, 4.0 A	40 V DC, 4.4 A 42 V DC, 4.0 A	40 V DC, 4.4 A 42 V DC, 4.0 A	40 V DC, 4.4 A 42 V DC, 4.0 A
CE sta	ndard	-	✓	-	-		1
UL standard		-	-	1	-	-	-
Korea standard		-	-	-		-	-
Japan s	tandard	-	-		1	-	-
Charging time for 630 Wh (583 Wh in	Full charge (hour)	4.8 (* 5.7)	5.5	5.5	5.5	5.5	5.5
Japan) battery	80% charge (hour)	3.2 (* 4)	3.2	3.2	3.2	3.2	3.2
Charging time for 504 Wh (464 Wh in	Full charge (hour)	4 (* 4.5)	5	5	5	5	5
Japan) battery	80% charge (hour)	2.5 (* 3.2)	2.5	2.5	2.5	2.5	2.5
Charging time for 418 Wh (393 Wh in	Full charge (hour)	3.0 (* 3.5)	4	4	4	4	4
Japan) battery	80% charge (hour)	2.0 (* 2.5)	2	2	2	2	2
Charging Le	evel Display	-	-	-	-	-	-
Plug in cha	rging type		1	1	1	1	1
Charging to	emperature	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C
Storage temperature		-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Error signal		1	1	1	1	1	1
Adapter for battery connecter		**-	* -	* -	* -	* -	* -
Compatible AC power cable			-	-	-	-	-
Built in A	AC cable	1	1	1	1	1	1
Built in AC cal	ble length (m)	1	2	2	1	1	1
Average v	veight (g)		930	985	-	955	960
No	ote	* In case of 100 V AC ** Check latest line-up chart	* Check latest line- up chart	* Check latest line- up chart	* Check latest line- up chart	* Check latest line- up chart	* Check latest line- up chart

SC

SVV

DU SMDU

SMDU

RT

FC

SMCR

SMCD

ВТ

BM

EWSW

EWCP

EWEX

## **Battery Charger**

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EC-E6000-7	EC-E6000-9	EC-E6000-10	EC-E6000-12	EC-E6002
	1	Standard	Standard	Standard	Standard	Standard
Color	2	-	-	-	-	-
	3	-	-	-	-	-
Plug	type	Type C	Type B3L	Type O	Type C	-
Typical example	country/Region	Korea	South-Africa	Argentina	Brazil	Worldwide
Compatible battery		BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6010 BT-E8010 BT-E8010 BT-E8014 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036
Compatib	le voltage	100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz
Out	put	40 V DC, 4.4 A 42 V DC, 4.0 A	40 V DC, 4.4 A 42 V DC, 4.0 A	40 V DC, 4.4 A 42 V DC, 4.0 A	40 V DC, 4.4 A 42 V DC, 4.0 A	42 V DC, 1.8 A
CE sta	ndard	-	-	-	-	1
UL standard		-	-	-	-	1
Korea si	Korea standard		-	-		<b>V</b>
Japan s	tandard	-	-		·	1
Charging time for 630 Wh (583 Wh in	Full charge (hour)	5.5	5.5	5.5	5.5	10.2
Japan) battery	80% charge (hour)	3.2	3.2	3.2	3.2	7.5
Charging time for 504 Wh (464 Wh in	Full charge (hour)	5	5	5	5	7.5
Japan) battery	80% charge (hour)	2.5	2.5	2.5	2.5	4
Charging time for 418 Wh (393 Wh in	Full charge (hour)	4	4	4	4	6.5
Japan) battery	80% charge (hour)	2	2	2	2	3.5
Charging Le	evel Display	-	-	-	-	-
Plug in cha	rging type	1	1	✓	<b>✓</b>	✓
Charging to	emperature	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C
Storage te	mperature	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Error signal		1	1	✓	1	✓
Adapter for battery connecter		*-	* -	* -	* -	* -
Compatible AC power cable		-	-	-	-	SM-BCC1
Built in A	AC cable	1	✓	✓	✓	-
Built in AC cal	ole length (m)	1	1	1	1	-
Average v	veight (g)	930	-	950	950	523
No	ote	* Check latest line- up chart	* Check latest line- up chart	* Check latest line- up chart	* Check latest line- up chart	* Check latest line- up chart

### DI2 Adapter

Series	SHIMANO
Model no.	EW-EX010
Type of DI2 component	Master unit
SD50 port (pcs)	2
SD300 port (pcs)	0
SD50 connector (pcs)	0
SD300 connector (pcs)	0
Compatible EW	EW-SD50
Note	DI2 adapter B (for BOSCH ebike system)

## Chain Case Fixing Bolt

Series	SHIMANO
Model no.	SM-DUE61-FB
Color	Black
Size	M4 x 8 low head
Quantity (pcs) /1 package	120
Note	Available for DU- E6100/DU-E6110/ DU-E6180



SC

SW

DU

SMDU

SMDU

т

FC

SIVICR

SMCD

RT

BIVI

EWSW

EWCP

EC

EWEX

