

ARCHIVE

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SHIMANO

2021-2022

SPEC. HANDBOOK

- MTB
- TREKKING
- GRAVEL/ADVENTURE
- ROAD
- URBAN
- GENERAL
- Di2 Spec
- E-BIKE

REMARKS Mark ✓ : 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

BB	Bottom bracket	HP	Head parts
BC	Brake cable	HRB	Hub roller brake
BCC	Charger cord	I-SPEC	Integration mounting system of brake and shift lever
BCR	Battery charger		
BH	Disc brake hose	ID	CI-DECK
BL	Brake lever	JC	Junction
BM	Battery mount	LP	Light
BR	Brake caliper	MF	Multiple freewheel
BTC	Battery case	MU	Motor unit
BTH	Battery holder	O.L.D.	Over Locknut Dimension
BTR	Battery	OT	Outer casing
CB	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
CP	Spoke protector	RD	Rear derailleur
CR	Chainring	RT	Disc brake rotor
CS	Cassette sprocket	RTAD	Disc brake rotor adapter
CT	Chain tensioner	SB	REVOSHIFT shifter integrated with brake lever
DH	Hub dynamo		
DU	Drive unit	SC	Cycle computer System information display
EC	Battery charger		
EW	Electric wire	SF	Single freewheel
EWC	Cord cover	SG	Internal geared hub
EWEX	Di2 adapter	SL	Shift lever
EWW	Wireless unit	SPD	SHIMANO PEDALING DYNAMICS
FC	Crankset	SPD-SL	SHIMANO PEDALING DYNAMICS-SL
	Crank arm		
FD	Front derailleur	ST	DUAL CONTROL LEVER : Shift lever integrated with brake lever
FH	FREEHUB	SW	Switch unit
GM	Grommet	WH	Wheel
HB	Front hub		

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Brake (Mechanical Disc Brake)	54	BR
Brake (V-BRAKE)	54	BR
Crankset	55	FC
Chain Device	66	SMCD
Chainring	67	SMCR
Bottom Bracket (HOLLOWTECH II)	69	BB
Bottom Bracket	70	BB
Cassette Sprocket	72	CS
Multiple Freewheel	76	MF
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Front Hub (Rim Brake)	82	HB
FREEHUB (Disc Brake)	83	FH
FREEHUB (Rim Brake)	90	FH
Wheel (Disc Brake)	91	WH
CI-DECK	99	CI-DECK
Cycle Computer (CI-DECK)	100	SC

Shift Lever

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		SL-M9100-R	SL-M9100-IR	SL-M9100-L	SL-M9100-IL	SL-M9000-R	SL-M9000-L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	-	2	2	-	2/3
Rear speeds		12	12	-	-	11	-
Compatible rear derailleur type		12-speed	12-speed	-	-	MTB 11-speed	-
Compatible with I-SPEC EV brake lever		✓	✓	✓	✓	✓	✓
Mount type	Clamp band	✓	-	✓	-	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	✓	-	✓	-	-
Shift lever position adjust		-	(14 mm slide adjust range)	-	(14 mm slide adjust range)	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-
Shift lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position adjust		-	-	✓	✓	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		4	4	-	-	4	-
Release function	MULTI RELEASE	✓	✓	-	-	✓*	-
	INSTANT RELEASE	✓	✓	✓	✓	✓	✓
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
	Adjustable mono lever	-	-	✓	✓	-	-
OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-
	With (removable)	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Multi-bearing construction		4	4	4	4	4	4
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Anodized	Painted	Anodized	Anodized
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	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
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shift lever cable	Inner cable	Polymer-coated cable	✓	✓	✓	✓	✓
		OPTISLIC K	-	-	-	-	-
		SIL-TEC	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		117 (/pc)	112 (/pc)	79 (/pc)	74 (/pc)	200 (/pair)	200 (/pair)
Note		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	

Shift Lever

Series		XTR	XTR	SAINT	SAINT	DEORE XT	DEORE XT
Model no.		SL-M980-B-IR	SL-M980-B-IL	SL-M820	SL-M820-B-I	SL-M8100-R	SL-M8100-IR
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	2/3	-	-	-	-
Rear speeds		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-SPEC EV brake lever		-	-	✓	-	✓	✓
Mount type	Clamp band	-	-	✓	-	✓	-
	I-SPEC B	✓	✓	-	✓**	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	✓
Shift lever position adjust		✓	✓	-	✓	-	✓ (14 mm slide adjust range)
Shift lever rotation adjust (non I-SPEC EV)		✓	✓	-	✓	-	-
Shift lever cable adjust		✓ (CFRP)	✓ (CFRP)	✓ (CFRP)	✓ (CFRP)	✓	✓
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	✓	-	-	-	-
Max. multiple shifts (main lever/rear)		4	-	4	4	4	4
Release function	MULTI RELEASE	✓	-	✓*	✓*	✓	✓
	INSTANT RELEASE	✓	✓	✓	✓	✓	✓
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
	Adjustable mono lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-
	With (removable)	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Multi-bearing construction		4	4	4	4	2	2
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Clamp screw	Material	-	-	Stainless steel	-	Stainless steel	Stainless steel
	Finish	-	-	Black	-	Black	Black
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Release lever body	Material	CFRP & Steel	CFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	-	-	-	✓	✓
		SIL-TEC	✓	✓	-	-	-
		Stainless	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		103 (/pc)	98 (/pc)	123 (/pc)	114 (/pc)	117 (/pc)	120 (/pc)
Note				* Pull: single, push: double	* Pull: single, push: double ** I-spec B-type	w/Rubber grooved grip (main lever)	w/Rubber grooved grip (main lever)

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

SC

Shift Lever

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		SL-M8100-L	SL-M8100-IL	SL-M8130-R11	SL-M8130-IR11	SL-M8000-R	SL-M8000-L	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
Shifter type		RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	
Front speeds		2	2	-	-	-	2/3	
Rear speeds		-	-	11	11	11	-	
Compatible rear derailleur type		-	-	LINKGLIDE 11-speed	LINKGLIDE 11-speed	MTB 11-speed	-	
Compatible with I-SPEC EV brake lever		✓	✓	✓	✓	✓	✓	
Mount type	Clamp band	✓	-	✓	-	✓	✓	
	I-SPEC B	-	-	-	-	-	-	
	I-SPEC II	-	-	-	-	-	-	
	I-SPEC EV	-	✓	-	✓	-	-	
Shift lever position adjust		-	(14 mm slide adjust range)	-	✓	-	-	
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-	
Shift lever cable adjust		✓	✓	✓	✓	✓	✓	
Initial lever position adjust		✓	✓	-	-	-	-	
Front 2/3 mode converter		-	-	-	-	-	-	
Max. multiple shifts (main lever/rear)		-	-	2	2	4	-	
Release function	MULTI RELEASE	-	-	-	-	✓*	-	
	INSTANT RELEASE	✓	✓	✓	✓	✓	✓	
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓	
	Adjustable mono lever	✓	✓	-	-	-	-	
OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-	
	With (removable)	-	-	-	-	✓	✓	
	Without	✓	✓	✓	✓	✓	✓	
Multi-bearing construction		2	2	2	2	2	2	
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	Black	-	-	
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	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	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLIC K	✓	✓	✓	✓	✓	
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
Average weight (g)		78 (/pc)	78 (/pc)	117 (/pc)	120 (/pc)	127 (/pc)	117 (/pc)	
Note		w/Rubber grooved grip (main lever)	w/Rubber grooved grip (main lever)	-	-	* Pull: single, push: double		

Shift Lever

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		SL-M8000-IR	SL-M8000-IL	SL-M8000-B-IR	SL-M780-B-IR	SL-M780-B-IL	SL-M780-R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	2/3	-	-	2/3	-
Rear speeds		11	-	11	10	-	10
Compatible rear derailleur type		MTB 11-speed	-	MTB 11-speed	MTB 10-speed	-	MTB 10-speed
Compatible with I-SPEC EV brake lever		-	-	-	-	-	✓
Mount type	Clamp band	-	-	-	-	-	✓
	I-SPEC B	-	-	✓	✓	✓	-
	I-SPEC II	✓	✓	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shift lever position adjust		✓	✓	✓	✓	✓	-
Shift lever rotation adjust (non I-SPEC EV)		✓	✓	✓	✓	✓	-
Shift lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	✓	-
Max. multiple shifts (main lever/rear)		4	-	4	4	-	4
Release function	MULTI RELEASE	✓*	-	✓*	✓	-	✓
	INSTANT RELEASE	✓	✓	✓	✓	✓	✓
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
	Adjustable mono lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-
	With (removable)	-	-	-	-	-	✓
	Without	✓	✓	✓	✓	✓	✓
Multi-bearing construction		2	2	2	2	2	2
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	-	-	-	-	-	Stainless steel
	Finish	-	-	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	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
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	✓	✓	✓	-	-
		SIL-TEC	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		120 (/pc)	110 (/pc)	117 (/pc)	114 (/pc)	106 (/pc)	128 (/pc)
Note		* Pull: single, push: double		* Pull: single, push: double			

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

SC

Shift Lever

Series		DEORE XT	DEORE XT	DEORE XT	SLX	SLX	SLX	
Model no.		SL-M780-L	SL-M770-A-R	SL-M770-A-L	SL-M7100-R	SL-M7100-IR	SL-M7100-L	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	
Front speeds		2/3	-	3	-	-	2	
Rear speeds		-	9	-	12	12	-	
Compatible rear derailleur type		-	MTB 9-speed	-	12-speed	12-speed	-	
Compatible with I-SPEC EV brake lever		✓	✓	✓	✓	✓	✓	
Mount type	Clamp band	✓	✓	✓	✓	-	✓	
	I-SPEC B	-	-	-	-	-	-	
	I-SPEC II	-	-	-	-	-	-	
	I-SPEC EV	-	-	-	-	✓	-	
Shift lever position adjust		-	-	-	-	(14 mm slide adjust range)	-	
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-	
Shift lever cable adjust		✓	✓	✓	✓	✓	✓	
Initial lever position adjust		-	-	-	-	-	✓	
Front 2/3 mode converter		✓	-	-	-	-	-	
Max. multiple shifts (main lever/rear)		-	4	-	3	3	-	
Release function	MULTI RELEASE	-	-	-	-	-	-	
	INSTANT RELEASE	✓	✓	✓	-	-	✓	
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓	
	Adjustable mono lever	-	-	-	-	-	✓	
OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-	
	With (removable)	✓	✓	✓	-	-	-	
	Without	✓	✓	✓	✓	✓	✓	
Multi-bearing construction		2	2	2	-	-	-	
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Main lever body	Material	Aluminum	Aluminum	Aluminum	GFRP & Steel	GFRP & Steel	GFRP & Steel	
	Finish	Painted	Painted	Painted	-	-	-	
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	
	Finish	-	-	-	-	-	-	
Base cover	Material	GFRP	Resin	Resin	GFRP	GFRP	GFRP	
	Finish	Painted	Painted	Painted	-	-	-	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLIC K	-	-	-	✓	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
Average weight (g)		121 (/pc)	255 (/pair)	255 (/pair)	117 (/pc)	117 (/pc)	77 (/pc)	
Note								

Shift Lever

Series		SLX	SLX	SLX	SLX	SLX	SLX
Model no.		SL-M7100-IL	SL-M7000-11-R	SL-M7000-L	SL-M7000-11-IR	SL-M7000-IL	SL-M7000-11-B-IR
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2	-	2/3	-	2/3	-
Rear speeds		-	11	-	11	-	11
Compatible rear derailleur type		-	MTB 11-speed	-	MTB 11-speed	-	MTB 11-speed
Compatible with I-SPEC EV brake lever		✓	✓	✓	-	-	-
Mount type	Clamp band	-	✓	✓	-	-	-
	I-SPEC B	-	-	-	-	-	✓
	I-SPEC II	-	-	-	✓	✓	-
	I-SPEC EV	✓	-	-	-	-	-
Shift lever position adjust		✓ (14 mm slide adjust range)	-	-	✓	✓	✓
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	✓	✓	✓
Shift lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position adjust		✓	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		-	3	-	3	-	3
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	✓	-	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
	Adjustable mono lever	✓	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-
	With (removable)	-	✓	✓	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	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	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		77 (/pc)	135 (/pc)	130 (/pc)	120 (/pc)	115 (/pc)	127 (/pc)
Note							

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Shift Lever

Series		SLX	SLX	SLX	SLX	SLX	SLX
Model no.		SL-M7000-B-IL	SL-M7000-10-R	SL-M7000-10-IR	SL-M7000-10-B-IR	SL-M670-B-IR	SL-M670-B-IL
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2/3	-	-	-	-	2/3
Rear speeds		-	10	10	10	10	-
Compatible rear derailleur type		-	MTB 10-speed	MTB 10-speed	MTB 10-speed	MTB 10-speed	-
Compatible with I-SPEC EV brake lever		-	✓	-	-	-	-
Mount type	Clamp band	-	✓	-	-	-	-
	I-SPEC B	✓	-	-	✓	✓	✓
	I-SPEC II	-	-	✓	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shift lever position adjust		✓	-	✓	✓	✓	✓
Shift lever rotation adjust (non I-SPEC EV)		✓	-	✓	✓	✓	✓
Shift lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	✓
Max. multiple shifts (main lever/rear)		-	3	3	3	3	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
	Adjustable mono lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-
	With (removable)	-	✓	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	-	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	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	✓	✓	✓	✓	-
		SIL-TEC	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		120 (/pc)	135 (/pc)	120 (/pc)	127 (/pc)	121 (/pc)	116 (/pc)
Note							

Shift Lever

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.		SL-M6100-R	SL-M6100-IR	SL-M6000-R	SL-M6000-L	SL-M6000-IR	SL-M6000-IL
Color	1	Series color	Series color	Series black	Series black	Series black	Series black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	-	-	2/3	-	2/3
Rear speeds		12	12	10	-	10	-
Compatible rear derailleur type		MTB 12-speed	MTB 12-speed	MTB 10-speed	-	MTB 10-speed	-
Compatible with I-SPEC EV brake lever		✓	✓	✓ (w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)	✓	-	-
Mount type	Clamp band	✓	-	✓	✓	-	-
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	✓	✓
	I-SPEC EV	-	✓	-	-	-	-
Shift lever position adjust		-	✓ (14 mm slide adjust range, w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	✓	✓
Shift lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		3	3	3	-	3	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
	Adjustable mono lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	-	-
	With (removable)	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	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	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓
Steel	-	-	-	-	-	-	
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		-	-	-	-	-	-
Note							

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Shift Lever

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.		SL-M5100-R	SL-M5100-IR	SL-M5100-L	SL-M5100-IL	SL-M5130-R10	SL-M4100-R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	-	2	2	-	-
Rear speeds		11	11	-	-	10	10
Compatible rear derailleur type		MTB 11-speed	MTB 11-speed	-	-	LINKGLIDE 10-speed	MTB 10-speed
Compatible with I-SPEC EV brake lever		✓	✓	✓	✓	✓ (w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)	✓
Mount type	Clamp band	✓	-	✓	-	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	✓	-	✓	-	-
Shift lever position adjust		-	✓ (14 mm slide adjust range, w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)	-	✓ (14 mm slide adjust range)	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-
Shift lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		3	3	-	-	2	3
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
	Adjustable mono lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	✓	✓	-	-	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	Stainless steel	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	GFRP & Steel	-	-	GFRP & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-
		Stainless	✓	✓	-	-	✓
		Steel	-	-	✓	✓	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		-	-	-	-	-	-
Note		-	-	-	-	-	-

Shift Lever

Series		DEORE	DEORE	DEORE	DEORE	DEORE	SHIMANO ALVIO
Model no.		SL-M4100-IR	SL-M610-IR	SL-M610-IL	SL-M590-R	SL-M590-L	SL-M3100-R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	-	2/3	-	3	-
Rear speeds		10	10	-	9	-	9
Compatible rear derailleur type		MTB 10-speed	MTB 10-speed	-	MTB 9-speed	-	MTB 9-speed
Compatible with I-SPEC EV brake lever		✓ (14 mm slide adjust range, w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)	-	-	✓	✓	-
Mount type	Clamp band	-	-	-	✓	✓	✓
	I-SPEC B	-	✓	✓	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	✓	-	-	-	-	-
Shift lever position adjust		✓ (w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY) *	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	✓	✓	-	-	-
Shift lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	✓	-	-	-
Max. multiple shifts (main lever/rear)		3	3	-	3	-	3
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	✓	✓	-
	Adjustable mono lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	✓	-	-	✓	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	✓	✓	✓	-	-	-
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	Stainless steel	-	-	Stainless steel	Stainless steel	Steel
	Finish	-	-	-	-	-	Plated
Main lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	Resin
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	✓	-	-	-	✓
		SIL-TEC	-	-	-	-	-
		Stainless	-	✓	✓	✓	✓
		Steel	✓	-	-	-	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		-	-	-	-	-	-
Note							

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Shift Lever

Series		SHIMANO ALIVIO	SHIMANO ALIVIO	ACERA	ACERA	ACERA	ALTUS
Model no.		SL-M3100-L	SL-M3100-2L	SL-M3000-R	SL-M3010-L	SL-M360-R	SL-M2010-9R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		3	2	-	2	-	-
Rear speeds		-	-	9	-	8	9
Compatible rear derailleur type		-	-	MTB 9-speed	-	MTB 8-speed	MTB 9-speed
Compatible with I-SPEC EV brake lever		-	✓	✓	✓	✓	✓
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-
Shift lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		-	-	3	-	3	3
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	✓	-	-	-	-
	Adjustable mono lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	✓	-	✓	✓	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	-	✓	-	-	-	-
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	Steel	Steel	Stainless steel	Stainless steel	Steel	Steel
	Finish	Plated	Plated	-	-	-	Plated
Main lever body	Material	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	-	Resin & Steel	Steel & Resin	Steel & Resin	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	✓	✓	-	-	✓
		SIL-TEC	-	-	-	-	-
		Stainless	-	-	✓*	-	-
		Steel	✓	✓	✓	✓	✓
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		-	-	-	-	-	-
Note				* Option			

Shift Lever

Series		ALTUS	ALTUS	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SL-M2010-L	SL-M2010-2L	SL-M315-8R	SL-M315-7R	SL-M315-L	SL-M315-2L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		3	2	-	-	3	2
Rear speeds		-	-	8	7	-	-
Compatible rear derailleur type		-	-	MTB 8-speed	MTB 7-speed	-	-
Compatible with I-SPEC EV brake lever		✓	✓	✓	✓	✓	✓
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-
Shift lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		-	-	3	3	-	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable mono lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	-	-	-	-	-	-
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Main lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	✓	✓	-	-	-
		SIL-TEC	-	-	-	-	-
		Stainless	-	-	✓	✓	✓
		Steel	✓	✓	-	-	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		-	-	-	-	-	-
Note							

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Shift Lever

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-FT55-7R	SL-TX50-7R	SL-TX50-6R	SL-TX50-L	SL-TX50-LN	SL-TX30-7R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		Thumb shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus
Front speeds		-	-	-	3	3 (Friction)	-
Rear speeds		7	7	6	-	-	7
Compatible rear derailleur type		MTB 7-speed	MTB 7-speed	MTB 6-speed	-	-	MTB 7-speed
Compatible with I-SPEC EV brake lever		-	-	-	-	-	-
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-
Shift lever cable adjust		-	-	-	✓	✓	-
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		6	6	5	-	-	6
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable mono lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	-	-	-	-	-	-
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Main lever body	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	-	-	-	-	-
		SIL-TEC	-	-	-	-	-
		Stainless	-	-	-	-	-
		Steel	✓	✓	✓	✓	✓
Recommended shift lever outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weight (g)		-	-	-	-	-	-
Note							

Shift Lever

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-TX30-6R	SL-TX30-LN	SL-RS45-8R	SL-RS45-7R	SL-RS45-6R	SL-RS45-L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		Thumb Shifter Plus	Thumb Shifter Plus	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front speeds		-	3 (Friction)	-	-	-	3
Rear speeds		6	-	8	7	6	-
Compatible rear derailleur type		MTB 6-speed	-	MTB 8-speed	MTB 7-speed	MTB 6-speed	-
Compatible with I-SPEC EV brake lever		-	-	-	-	-	-
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-
Shift lever cable adjust		-	✓	✓	✓	✓	✓
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		5	-	7	6	5	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable mono lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	-	-	-	-	-	-
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Main lever body	Material	Resin	Resin	-	-	-	-
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin	Resin	-	-	-	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	-	-	-	-	-
		SIL-TEC	-	-	-	-	-
		Stainless	-	-	-	-	-
		Steel	✓	✓	✓	✓	✓
Recommended shift lever outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weight (g)		-	-	-	-	-	-
Note							

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Shift Lever

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-RS36-7R	SL-RS36-6R	SL-RS36-L	SL-RS35-7R	SL-RS35-6R	SL-RS35-L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front speeds		-	-	3	-	-	3
Rear speeds		7	6	-	7	6	-
Compatible rear derailleur type		MTB 7-speed	MTB 6-speed	-	MTB 7-speed	MTB 6-speed	-
Compatible with I-SPEC EV brake lever		-	-	-	-	-	-
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-
Shift lever cable adjust		-	-	✓	-	-	✓
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		6	5	-	6	5	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable mono lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	-	-	-	-	-	-
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Steel	Steel	Steel	Resin	Resin	Resin
	Finish	Painted	Painted	Painted	Resin	Resin	Resin
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Main lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	-	-	-	-	-
		SIL-TEC	-	-	-	-	-
		Stainless	-	-	-	-	-
		Steel	✓	✓	✓	✓	✓
Recommended shift lever outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weight (g)		-	-	-	-	-	-
Note		w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option		w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option	

Shift Lever

Series		TOURNEY	SHIMANO	SHIMANO	SHIMANO	SHIMANO	TOURNEY TZ
Model no.		SL-RS35-LN	SL-RV200-7R	SL-RV200-6R	SL-RV200-L	SL-RV200-LN	SL-TZ500-7R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	Thumb Shifter
Front speeds		3 (Friction)	-	-	3	3 (Friction)	-
Rear speeds		-	7	6	-	-	7
Compatible rear derailleur type		-	MTB 7-speed	MTB 6-speed	-	-	MTB 7-speed
Compatible with I-SPEC EV brake lever		-	-	-	-	-	-
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-
Shift lever cable adjust		✓	-	-	✓	-	-
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		-	6	5	-	-	6
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable mono lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	-	✓*
	With (removable)	-	-	-	-	-	-
	Without	-	-	-	-	-	-
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Resin	Resin	Resin	Resin	Resin	Steel
	Finish	Resin	Resin	Resin	Resin	Resin	Painted
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	Zinc plated
Main lever body	Material	-	-	-	-	-	Resin
	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	-	-	-	-	-
		SIL-TEC	-	-	-	-	-
		Stainless	-	-	-	-	-
		Steel	✓	✓	✓	✓	✓
Recommended shift lever outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weight (g)		-	-	-	-	-	-
Note							* Gear Position Indicator

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Shift Lever

Series		TOURNEY TZ	TOURNEY TZ
Model no.		SL-TZ500-6R	SL-TZ500-LN
Color	1	Series color	Series color
	2	-	-
	3	-	-
Shifter type		Thumb Shifter	Thumb Shifter
Front speeds		-	3 (Friction)
Rear speeds		6	-
Compatible rear derailleur type		MTB 6-speed	-
Compatible with I-SPEC EV brake lever		-	-
Mount type	Clamp band	✓	✓
	I-SPEC B	-	-
	I-SPEC II	-	-
	I-SPEC EV	-	-
Shift lever position adjust		-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-
Shift lever cable adjust		-	-
Initial lever position adjust		-	-
Front 2/3 mode converter		-	-
Max. multiple shifts (main lever/rear)		5	-
Release function	MULTI RELEASE	-	-
	INSTANT RELEASE	-	-
	2-WAY RELEASE	-	-
	Adjustable mono lever	-	-
OPTICAL GEAR DISPLAY	With	✓*	✓*
	With (removable)	-	-
	Without	-	-
Multi-bearing construction		-	-
Shift lever bracket	Material	Steel	Steel
	Finish	Painted	Painted
Clamp screw	Material	Steel	Steel
	Finish	Zinc plated	Zinc plated
Main lever body	Material	Resin	Resin
	Finish	-	-
Release lever body	Material	-	-
	Finish	-	-
Base cover	Material	Resin	Resin
	Finish	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-
		OPTISLIC K	-
		SIL-TEC	-
		Stainless	-
		Steel	✓
Recommended shift lever outer casing		OT-SIS40	OT-SIS40
Average weight (g)		-	-
Note		* Gear Position Indicator	* Gear Position Indicator

Seat Post Lever

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		SL-MT800-IL	SL-MT500-L	SL-MT500-IL
Color	1	Black	Black	Black
	2	-	-	-
Lever type		Seat post lever	Seat post lever	Seat post lever
Compatible with I-SPEC EV brake lever		✓	✓	✓
Mount type	Clamp band	-	✓	-
	I-SPEC B	-	-	-
	I-SPEC II	-	-	-
	I-SPEC EV	✓	-	✓
Lever position adjust		✓	-	✓
Lever rotation adjust (non I-SPEC EV)		-	-	-
Cable adjuster		✓	✓	✓
Multi bearing construction		✓	-	-
Lever bracket	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel
	Finish	Black oxide finish	-	-
Lever body	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Lever cable	Material	Stainless steel	Steel	Steel
	Finish	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41
Average weight (g)		37	-	-
Note		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

Shift Lever (Integration Unit)

Series		XTR	XTR	DEORE XT	DEORE XT
Model no.		SM-SL98-B-R	SM-SL98-B-L	SM-SL78-B-R	SM-SL78-B-L
Base cover material		CFRP	CFRP	GFRP	GFRP
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted
I-SPEC compatible		✓*	✓*	✓*	✓*
Compatible shift lever		SL-M980	SL-M980	SL-M780, SL-T780	SL-M780, SL-T780
Note		* I-SPEC B-type compatible	* I-SPEC B-type compatible	* I-SPEC B-type compatible	* I-SPEC B-type compatible

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Brake Lever (Hydraulic Disc Brake)

Series		XTR	XTR	SAINT	DEORE XT	DEORE XT	SLX
Model no.		BL-M9100	BL-M9120	BL-M820-B	BL-M8100	BL-M8000	BL-M7100
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		2	2	2	2	2	2
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake hose (kit)		SM-BH90-SS	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBM
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	White	-	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
SERVO WAVE		-	✓	✓	✓	✓	✓
Reach adjust	Toolless	-	✓	✓	✓	✓	✓
	Tool	✓	-	-	-	-	-
Free stroke adjust		-	✓	✓	✓	✓	-
Compatible shift lever mount	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	✓	-	-	-
	I-SPEC II	-	-	-	-	✓	-
	I-SPEC EV	✓	✓	-	✓	-	✓
Clamp band	Open clamp	✓	✓	✓	✓	✓	✓
Shift lever rotation angle adjust range (I-SPEC EV ; deg.)		60	60	-	20	-	20
Recommended brake caliper		BR-M9100 BR-M9110-R	BR-M9120	BR-M820	BR-M8100 BR-M8110-R BR-M8120	BR-M8000	BR-M7100 BR-M7110-R BR-M7120
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓	✓	✓	✓	✓
Clamp screw	Material	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Painted	Painted	Painted	-	Painted
Brake lever	Material	Carbon	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Anodized	Anodized	Anodized
Master cylinder	Material	Magnesium	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (g)		66	97	104	105	104	107
Note							

Brake Lever (Hydraulic Disc Brake)

Series		DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BL-M6100	BL-M4100	BL-MT501	BL-MT401	BL-MT402-3A	BL-MT201
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic Disc-brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		2	2	2	2	3	3
Color	1	Series Color	Black (SHIMANO logo)	Black	Black (Metallic silver lever)	Black	Black
	2	Black (SHIMANO Logo)	-	-	Black (Black lever)	Silver *	-
	3	-	-	-	-	-	-
Brake hose (kit)		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)	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
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
SERVO WAVE		✓	-	✓	-	-	-
Reach adjust	Toolless	-	-	-	-	-	-
	Tool	✓	✓	✓	✓	✓	✓
Free stroke adjust		-	-	-	-	-	-
Compatible shift lever mount	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	✓	-	-	-
	I-SPEC EV	✓	✓	-	-	-	-
Clamp band	Open clamp	✓	✓	✓	-	-	-
Shift lever rotation angle adjust range (I-SPEC EV ; deg.)		10	10	-	-	-	-
Recommended brake caliper		BR-M6100 BR-M6120	BR-MT410 BR-MT420	BR-MT500 BR-MT520	BR-MT400 BR-MT420	BR-MT400 BR-MT410 BR-MT420	BR-MT200 BR-UR300
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓	✓	✓	✓	✓
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel
	Finish	-	-	-	Plated	Plated	Plated
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (g)		-	-	-	-	-	-
Note						* The option color part is master cylinder	-

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Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO
Model no.		BL-MT200
Brake type		Hydraulic disc brake
Lever size (finger)		3
Color	1	Black
	2	-
	3	-
Brake hose (kit)		SM-BH59-JK-SS
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
J-Kit spec (for OEM)		✓
SERVO WAVE		-
Reach adjust	Toolless	-
	Tool	✓
Free stroke adjust		-
Compatible shift lever mount	Clamp band	✓
	I-SPEC B	-
	I-SPEC II	-
	I-SPEC EV	-
Clamp band	Open clamp	-
Shift lever rotation angle adjust range (I-SPEC EV ; deg.)		-
Recommended brake caliper		BR-MT200 BR-UR300
Oil		SHIMANO Mineral
Funnel bleeding		✓
Clamp screw	Material	Steel
	Finish	Plated
Brake lever	Material	Steel
	Finish	Painted
Master cylinder	Material	Aluminum
	Finish	Painted
Average weight (g)		-
Note		-

Brake Lever

Series		DXR
Model no.		BL-MX70
Color	1	Series color
	2	-
	3	-
Compatible brake type	V-BRAKE	✓
	Mechanical disc brake (MTB)	✓
	Mechanical disc brake (Road)	-
	Caliper (NEW SUPER SLR)	-
	Caliper (SUPER SLR)	-
	Cantilever brake	-
	Roller brake	-
Recommended POWER MODULATOR	V-BRAKE	-
	Mechanical disc brake (MTB)	-
Clamp band	Open clamp band	-
	I-SPEC	-
	Diameter (mm)	-
Internal bumper stop		-
Lever size (finger)		2
Brake cable type		T-type
Power adjuster		-
SERVO WAVE		-
Reach adjust		✓
Cable adjust		✓
Cable adjust type		One hand
Brake lever	Material	Aluminum
	Finish	Anodized
Brake bracket	Material	Aluminum
	Finish	Painted
Stainless clamp screw		✓
Average weight (g)		175 (/pair)
Note		For BMX

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Shift/Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-EF505-9R	ST-EF505-8R	ST-EF505-7R	ST-EF505-2L	ST-EF505-L	
Color	1	Black	Black	Black	Black	Black	
	2	-	-	-	-	-	
Shifter type		EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
Shift lever	Front speeds		-	-	-	2	3
	Rear speeds		9	8	7	-	-
	2/3 mode converter		-	-	-	-	-
	Max. multiple shifts (main lever/rear)		3	3	3	-	-
	Compatible rear derailleur type		MTB 9-speed	MTB 8-speed	MTB 7-speed	-	-
	I-SPEC compatible		-	-	-	-	-
	Shift lever position adjust		-	-	-	-	-
	Release function	MULTI RELEASE	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-
		2-WAY RELEASE	-	-	-	-	-
	Shift lever cable adjust		✓	✓	✓	✓	✓
	OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓
		With (removable)	-	-	-	-	-
		Without	-	-	-	-	-
Multi-bearing construction		-	-	-	-	-	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-
		Stainless	-	-	-	-	-
	Steel	✓	✓	✓	✓	✓	
Brake lever	Lever size (finger)		3	3	3	3	3
	Brake hose (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 color (kit)	1	Black	Black	Black	Black	Black
		2	-	-	-	-	-
	J-Kit spec (for OEM)		✓	✓	✓	✓	✓
	Recommended brake caliper		BR-MT200	BR-MT200	BR-MT200	BR-MT200	BR-MT200
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust	Toolless	-	-	-	-	-
		Tool	✓	✓	✓	✓	✓
	Funnel bleeding		✓	✓	✓	✓	✓
	Free stroke adjust		-	-	-	-	-
	SERVO WAVE		-	-	-	-	-
Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
Finish		Painted	Painted	Painted	Painted	Painted	
Clamp band	Open clamp	-	-	-	-	-	
Shifter lever body	Main	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	
	Release	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	
		Finish	Painted	Painted	Painted	Painted	
	Clamp screw	Material	Steel	Steel	Steel	Steel	
		Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Stainless clamp screw		-	-	-	-	-	
Average weight (g)		-	-	-	-	-	
Note							

Shift/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	TOURNEY TX	TOURNEY TX	
Model 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	
	2	Silver	Silver	-	-	Silver	Silver	
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
Shift lever	Front speeds	-	3	-	-	-	3	
	Rear speeds	8	-	8	8	8	-	
	Compatible rear derailleur type	MTB 8-speed	-	MTB 8-speed	MTB 8-speed	MTB 8-speed	-	
	Shift lever position adjust	-	-	-	-	-	-	
	Shift lever cable adjust	✓	✓	-	-	-	✓	
	2/3 mode converter	-	-	-	-	-	-	
	Max. multiple shifts (Main lever/rear)	3	-	3	3	3	-	
	Release function	MULTI RELEASE	-	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-	-
		2-WAY RELEASE	-	-	-	-	-	-
	OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction	-	-	-	-	-	-	
	Main lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin	Resin
		Finish	-	-	-	-	-	-
	Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin	Resin
Finish		-	-	-	-	-	-	
Shift lever cable	Outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40	OT-SIS40	
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLIC K	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
Steel	✓	✓	✓	✓	✓	✓		
Brake lever	Compatible brake type	V-BRAKE	✓	✓	✓	✓ with switch*	✓	
		Mechanical disc brake (MTB)	✓	✓	✓	✓ with switch*	✓	
		Mechanical disc brake (Road)	-	-	-	-	-	
		Caliper (SLR-EV)	-	-	-	-	-	
		Caliper (NEW SUPER SLR)	-	-	-	-	-	
		Caliper (SUPER SLR)	-	-	-	✓ with switch	-	
		Cantilever brake	-	-	-	✓ with switch	-	
	Recommended POWER MODULATOR	V-BRAKE	-	-	-	SM-PM40	-	
		Mechanical disc brake (MTB)	-	-	-	SM-PM50	-	
	Clamp band	Open clamp band	-	-	-	-	-	
	Internal bumper stop	-	-	-	-	-	-	
	Lever size (finger)	2	2	2	4	2	2	
	Brake cable type	T-type	T-type	T-type	T-type	T-type	T-type	
	Power adjuster	-	-	-	-	-	-	
	SERVO WAVE	-	-	-	-	-	-	
	Reach adjust	✓	✓	✓	✓	✓	✓	
	Cable adjust	✓	✓	✓	✓	✓	✓	
Cable adjust type	Two hand	Two hand	Two hand	Two hand	Two hand	Two hand		
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel/Resin	Steel/Resin	
	Finish	Anodized	Anodized	Painted	Painted	-	-	
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	
		Finish	Painted	Painted	Painted	Painted	Painted	
	Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Plated	Plated	Zinc plated	Zinc plated	
Average weight (g)		-	-	-	-	-	-	
Note					* POWER MODULATOR must be used for front brake			

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Shift/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model 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	-	-	-	-	-	-	
Shifter type		EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
Shift lever	Front speeds	-	-	3	3	2	2	
	Rear speeds	7	7	-	-	-	-	
	Compatible rear derailleur type	MTB 7-speed	MTB 7-speed	-	-	-	-	
	Shift lever position adjust	-	-	-	-	-	-	
	Shift lever cable adjust	-	-	✓	✓	✓	✓	
	2/3 mode converter	-	-	-	-	-	-	
	Max. multiple shifts (Main lever/rear)	3	3	-	-	-	-	
	Release function	MULTI RELEASE	-	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-	-
		2-WAY RELEASE	-	-	-	-	-	-
	OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction	-	-	-	-	-	-	
	Main lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	
	Finish	-	-	-	-	-	-	
Shift lever cable	Outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLIC K	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless Steel	✓	✓	✓	✓	✓	✓
Brake lever	Compatible brake type	V-BRAKE	✓	✓ with switch*	✓	✓ with switch*	✓ with switch*	
		Mechanical disc brake (MTB)	✓	✓ with switch*	✓	✓ with switch*	✓	✓ with switch*
		Mechanical disc brake (Road)	-	-	-	-	-	-
		Caliper (SLR-EV)	-	-	-	-	-	-
		Caliper (NEW SUPER SLR)	-	-	-	-	-	-
		Caliper (SUPER SLR)	-	✓ with switch	-	✓ with switch	-	✓ with switch
		Cantilever brake	-	✓ with switch	-	✓ with switch	-	✓ with switch
	Roller brake	-	✓ with switch	-	✓ with switch	-	✓ with switch	
	Recommended POWER MODULATOR	V-BRAKE	-	SM-PM40	-	SM-PM40	-	SM-PM40
		Mechanical disc brake (MTB)	-	SM-PM50	-	SM-PM50	-	SM-PM50
	Clamp band	Open clamp band	-	-	-	-	-	-
	Internal bumper stop	-	-	-	-	-	-	-
	Lever size (finger)	2	4	2	4	2	4	
	Brake cable type	T-type	T-type	T-type	T-type	T-type	T-type	
Power adjuster	-	-	-	-	-	-		
SERVO WAVE	-	-	-	-	-	-		
Reach adjust	✓	✓	✓	✓	✓	✓		
Cable adjust	✓	✓	✓	✓	✓	✓		
Cable adjust type	Two hand	Two hand	Two hand	Two hand	Two hand	Two hand		
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
		Finish	Painted	Painted	Painted	Painted	Painted	
	Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Plated	Plated	Plated	
Average weight (g)		-	-	-	-	-	-	
Note			* POWER MODULATOR must be used for front brake		* POWER MODULATOR must be used for front brake		* POWER MODULATOR must be used for front brake	

Shift/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-EF41-7R	ST-EF41-6R	ST-EF41-L	
Color	1	Black	Black	Black	
	2	-	-	-	
Shifter type		EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
Shift lever	Front speeds		-	3	
	Rear speeds		7	6	-
	Compatible rear derailleur type		MTB 7-speed	MTB 6-speed	-
	Shift lever position adjust		-	-	-
	Shift lever cable adjust		-	-	✓
	2/3 mode converter		-	-	-
	Max. multiple shifts (Main lever/rear)		3	3	-
	Release function	MULTI RELEASE	-	-	-
		INSTANT RELEASE	-	-	-
		2-WAY RELEASE	-	-	-
	OPTICAL GEAR DISPLAY	With	✓	✓	✓
		With (removable)	-	-	-
		Without	-	-	-
	Multi-Bearing construction		-	-	-
	Main lever body	Material	Resin	Resin	Resin
		Finish	-	-	-
Release lever body	Material	Resin	Resin	Resin	
	Finish	-	-	-	
Shift lever cable	Outer casing		OT-SIS40	OT-SIS40	OT-SIS40
	Inner cable	Polymer-coated cable	-	-	-
		OPTISLIC K	-	-	-
		SIL-TEC	-	-	-
		Stainless	-	-	-
Steel	✓	✓	✓		
Brake lever	Compatible brake type	V-BRAKE	✓	✓	✓
		Mechanical disc brake (MTB)	✓	✓	✓
		Mechanical disc brake (Road)	-	-	-
		Caliper (SLR-EV)	-	-	-
		Caliper (NEW SUPER SLR)	-	-	-
		Caliper (SUPER SLR)	-	-	-
		Cantilever brake	-	-	-
	Roller brake	-	-	-	
	Recommended POWER MODULATOR	V-BRAKE	-	-	-
		Mechanical disc brake (MTB)	-	-	-
	Clamp band	Open clamp band	-	-	-
	Internal bumper stop		-	-	-
	Lever size (finger)		2	2	2
	Brake cable type		T-type	T-type	T-type
	Power adjuster		-	-	-
	SERVO WAVE		-	-	-
Reach adjust		✓	✓	✓	
Cable adjust		✓	✓	✓	
Cable adjust type		Two hand	Two hand	Two hand	
Brake lever	Material	Steel/Resin	Steel/Resin	Steel/Resin	
	Finish	-	-	-	
Bracket	Bracket	Material	Steel	Steel	Steel
		Finish	Painted	Painted	Painted
	Clamp screw	Material	Steel	Steel	Steel
Finish		Zinc plated	Zinc plated	Zinc plated	
Average weight (g)		-	-	-	
Note					

SL

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Rear Derailleur

Series		XTR	XTR	XTR	DEORE XT	DEORE XT	DEORE XT
Model no.		RD-M9100-GS	RD-M9100-SGS	RD-M9120-SGS	RD-M8100-GS	RD-M8100-SGS	RD-M8120-SGS
Pulley cage		GS	SGS	SGS	GS	SGS	SGS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12	12	12 (Front double)	12	12	12 (Front double)
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
Top-normal spring type	SHIMANO SHADOW RD	-	-	-	-	-	-
	SHIMANO SHADOW RD+	✓	✓	✓	✓	✓	✓
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	-	-	-	-	-	-
	Riveted adapter (road type)	-	-	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		0T	0T	10T	0T	0T	10T
Total capacity		35T	41T	41T	35T	41T	45T
Low sprocket	Max.	45T	51T	45T	45T	51T	45T
	Min.	45T	51T	45T	45T	51T	45T
Top sprocket	Max.	10T	10T	10T	10T	10T	10T
	Min.	10T	10T	10T	10T	10T	10T
Fluoric coated link bushings		8	8	8	4	7	7
Pulley	Guide pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	Tension pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	Teeth	13T	13T	13T	13T	13T	13T
	Screws material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw	✓	✓	✓	✓	✓	✓
Bracket	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
B-axle	Hollow axle	✓	✓	✓	✓	✓	✓
	Material	Aluminum	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Anodized	Anodized	-	-	-
B-axle 2	Hollow axle	-	-	-	-	-	-
	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Plate body	Material	CFRP	CFRP	CFRP	GFRP	GFRP	GFRP
	Finish	Painted	Painted	Painted	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Outer plate	Material	CFRP	CFRP	CFRP	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	-	-	-
Stroke adjusting screw	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Plated	Plated	Plated
Average weight (g)		237	240	241	286	284	287
Note			w/Bumper on pully cage		w/Bumper on pully cage	w/Bumper on pully cage	

Rear Derailleur

Series		SLX	SLX	DEORE	DEORE XT	DEORE XT	DEORE XT
Model no.		RD-M7100-SGS	RD-M7120-SGS	RD-M6100-SGS	RD-M8130-SGS	RD-M8000-GS	RD-M8000-SGS
Pulley cage		SGS	SGS	SGS	SGS	GS	SGS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12	12 (Front double)	12	11	11	11
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG-X11 11-speed CN-LG500	HG-X 11-speed	HG-X 11-speed
Top-normal spring type	SHIMANO SHADOW RD	-	-	-	-	-	-
	SHIMANO SHADOW RD+	✓	✓	✓	✓	✓	✓
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	-	-	-	-	✓*	✓*
	Riveted adapter (road type)	-	-	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		0T	10T	0T	0T	10T	18T
Total capacity		41T	45T	41T	39T	39T	47T
Low sprocket	Max.	51T	45T	51T	50T	42T(2x11-speed), 46T(1x11-speed)	40T(3x11-speed), 42T(2x11-speed), 46T(1x11-speed)
	Min.	51T	45T	51T	50T	40T	40T
Top sprocket	Max.	10T	10T	10T	11T	11T	11T
	Min.	10T	10T	10T	11T	11T	11T
Fluoroc coated link bushings		7	7	7	7	4	4
Pulley	Guide pulley bearing	-	-	-	Sealed Bearing	Sealed Bearing	Sealed Bearing
	Tension pulley bearing	-	-	-	Sealed Bearing	Sealed Bearing	Sealed Bearing
	Teeth	13T	13T	13T	13T	11T	11T
	Screws material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Sunken type pulley screw	✓	✓	✓	✓	✓	✓	
Bracket	Material	-	-	-	-	Aluminum	Aluminum
	Finish	-	-	-	-	Painted	Painted
B-axle	Hollow axle	✓	✓	✓	✓	✓	✓
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
B-axle 2	Hollow axle	-	-	-	-	✓	✓
	Material	-	-	-	-	Stainless steel	Stainless steel
	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	-	-	-	-	-	-
Plate body	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Aluminum	Steel	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Steel	Steel	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)		313	307	-	308	271	275
Note		w/Bumper on pully cage			w/Bumper on pully cage	* w/o Bracket spec. available	* w/o Bracket spec. available

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Rear Derailleur

Series		DEORE	DEORE	DEORE	SAINT	SLX	SLX
Model no.		RD-M5100-SGS	RD-M5120-SGS	RD-M4120-SGS	RD-M820-SS	RD-M7000-10-SGS	RD-M670-GS
Pulley cage		SGS	SGS	SGS	SS	SGS	GS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		11	11/10	11/10	10	10	10
Compatible chain		HG-X11 11-speed	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
Top-normal spring type	SHIMANO SHADOW RD	-	-	✓	-	-	✓
	SHIMANO SHADOW RD+	✓	✓	-	✓	✓	-
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	-	✓	✓	✓*	✓*	✓*
	Riveted adapter (road type)	-	-	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-	-	-
Mode converter		-	-	-	✓	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		0T	10T	10T	Single	22T	18T
Total capacity		40T	41T	41T	25T	43T	35T
Low sprocket	Max.	51T	46T (1x11/ 1x10-speed) 42T (2x11/ 2x10-speed)	42T	28/36T	36T	36T
	Min.	51T	42T	42T	23T	32T	32T
Top sprocket	Max.	11T	11T	11T	12T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluoroc coated link bushings		7	4	3	5	2	3
Pulley	Guide pulley bearing	-	-	-	-	-	-
	Tension pulley bearing	-	-	-	Sealed Bearing	-	-
	Teeth	13T	11T	11T	11T	11T	11T
	Screws material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw	✓	✓	✓	✓	✓	✓
Bracket	Material	-	Steel	Steel	Aluminum	Steel	Steel
	Finish	-	Painted	Painted	Painted	Painted	Painted
B-axle	Hollow axle	✓	✓	✓	✓	✓	✓
	Material	Stainless steel	Stainless steel	Stainless steel	Aluminum	Stainless steel	Stainless steel
	Finish	-	-	-	Anodized	-	-
B-axle 2	Hollow axle	-	✓	✓	✓	✓	-
	Material	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	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	-	-	Zinc plated	-	-	-
Plate body	Material	GFRP	Resin	Resin	Aluminum	Aluminum	Aluminum
	Finish	-	-	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Resin	Resin	Aluminum	Steel	Steel
	Finish	Painted	-	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Steel	Steel	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	Black	-	-
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)		-	-	-	280 (w/o mode converter)	313	278
Note					* w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available

Rear Derailleur

Series		SLX	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.		RD-M670-SGS	RD-M6000-GS	RD-M6000-SGS	RD-M5130-GS	RD-M610-GS	RD-M610-SGS
Pulley cage		SGS	GS	SGS	GS	GS	SGS
Color	1	Series color	Series Black	Series Black	Series color	Black	Black
	2	-	-	-	-	Silver	Silver
Rear speeds		10	10	10	10	10	10
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X11 11-speed CN-LG500	HG-X 10-speed	HG-X 10-speed
Top-normal spring type	SHIMANO SHADOW RD	✓	-	-	-	✓	✓
	SHIMANO SHADOW RD+	-	✓	✓	✓	-	-
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	✓*	✓*	✓*	-	✓*	✓*
	Riveted adapter (road type)	-	-	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		22T	10T	22T	0T	18T	22T
Total capacity		43T	41T	43T	32T	35T	43T
Low sprocket	Max.	36T	42T	36T	43T	36T	36T
	Min.	32T	42T	32T	43T	32T	32T
Top sprocket	Max.	11T	11T	11T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluoroc coated link bushings		3	4	3	7	3	3
Pulley	Guide pulley bearing	-	-	-	Bush	-	-
	Tension pulley bearing	-	-	-	Bush	-	-
	Teeth	11T	11T	11T	13T	11T	11T
	Screws material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw	✓	✓	✓	✓	✓	✓
Bracket	Material	Steel	Steel	Steel	-	Steel	Steel
	Finish	Painted	Painted	Painted	-	Painted	Painted
B-axle	Hollow axle	✓	✓	✓	-	✓	✓
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
B-axle 2	Material	-	✓	✓	-	✓	✓
	Material	Stainless steel	Stainless steel	Stainless steel	-	Stainless steel	Stainless steel
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	-	Painted	-	-	-	-
Plate body	Material	Aluminum	GFRP	Aluminum	GFRP	Aluminum	Aluminum
	Finish	Painted	-	Painted	-	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Aluminum	Steel	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Steel	Steel	TBD	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing screw	Material	Stainless steel	Steel	Steel	Stainless steel	Steel	Steel
	Finish	-	Plated	Plated	-	Plated	Plated
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)		281	-	-	-	-	-
Note		* w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available	-	* w/o Bracket spec. available	* w/o Bracket spec. available

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Rear Derailleur

Series		SHIMANO ALVIO	ALTUS	ALTUS	ACERA	ALTUS	TOURNEY TX
Model no.		RD-M3100-SGS	RD-M2000	RD-M370-SGS	RD-M360-SGS	RD-M310-Smart	RD-TX800
Pulley cage		SGS	SGS	SGS	SGS	Smart	SGS
Color	1	Series color	Series color	Black	Black	Black	Black
	2	-	-	Silver	Silver	Silver	Silver
Rear speeds		9	9	9	8/7	8/7	8/7
Compatible chain		CN-HG53 9-speed	HG 9-speed	HG 9-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed
Top-normal spring type	SHIMANO SHADOW RD	✓	✓	-	-	-	-
	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	-	-	✓	✓	✓	✓
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	-	-	-	-	-	-
	Riveted adapter (road type)	-	-	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		✓	✓	✓	✓	✓	✓
Max. front difference		22T	22T	22T	20T	20T	20T
Total capacity		45T	45T	45T	43T	43T	43T
Low sprocket	Max.	36T	36T	34T	34T	34T	34T
	Min.	32T	32T	28T	28T	28T	28T
Top sprocket	Max.	12T	12T	11T	14T	14T	14T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		1	-	-	1	-	-
Pulley	Guide pulley bearing	-	-	-	-	-	-
	Tension pulley bearing	-	-	-	-	-	-
	Teeth	11T	11T	11/11T	13/13T	13/15T	13/13T
	Screws material	Steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley screw	✓	✓	✓ (Guide pulley) - (Tension pulley)	-	-	-
Bracket	Material	Steel	Steel	-	-	-	-
	Finish	Painted	Painted	-	-	-	-
B-axle	Hollow axle	✓	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
B-axle 2	Hollow axle	-	-	-	-	-	-
	Material	Stainless steel	Stainless steel	-	-	-	-
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Resin
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Plate body	Material	PA-GF	PA-GF	Resin	Resin	Resin	Resin
	Finish	-	-	Painted	- (Black) Painted (Silver)	-	-
Outer link	Material	PA-GF	PA-GF	Steel	Steel	Steel	Steel
	Finish	-	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Zinc plated	Painted	Zinc plated	Zinc plated	Zinc plated
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Zinc plated	Zinc plated	Zinc plated
Cable fixing screw	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
	Finish	-	-	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g)		-	-	-	-	-	-
Note							

Rear Derailleur

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		RD-TY500-SGS	RD-TY300-SGS	RD-TY200-SS	RD-TY200-GS	RD-TY21-B-SS	RD-TY21-B-GS
Pulley cage		SGS	SGS	SS	GS	SS	GS
Color	1	Series color	Series color	Black	Black	Black	Black
	2	-	-	-	-	Silver	Silver
Rear speeds		7/6	7/6	7/6 (Front single)	7/6	6	6
Compatible chain		HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 6-speed	HG-UG 6-speed
Top-normal spring type	SHIMANO SHADOW RD	-	-	-	-	-	-
	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	✓	✓	-	-	-	-
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	-	-	-	-	-	-
	Riveted adapter (road type)	✓	✓	✓	✓	✓	✓
	Riveted adapter (BMX-track type)	✓	✓	✓	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		✓	✓	✓	✓	✓	✓
Max. front difference		20T	20T	0T	20T	13T	20T
Total capacity		43T	43T	20T	34T	28T	34T
Low sprocket	Max.	34T	34T	34T	28T	28T	28T
	Min.	28T	28T	28T	28T	28T	28T
Top sprocket	Max.	14T	14T	14T	14T	14T	14T
	Min.	11T	11T	12T	14T	14T	14T
Fluoric coated link bushings		-	-	-	-	-	-
Pulley	Guide pulley bearing	-	-	-	-	-	-
	Tension pulley bearing	-	-	-	-	-	-
	Teeth	13/13T	13/13T	11T/11T	11/11T	11/11T	11/11T
	Screws material	Steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley screw	-	-	-	-	-	-
Bracket	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
B-axle	Hollow axle	-	-	-	-	-	-
	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Black	Black	Black	Black
B-axle 2	Hollow axle	-	-	-	-	-	-
	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Bracket body	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Plate body	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
Inner link	Material	Resin	Steel	Resin	Resin	Steel	Steel
	Finish	-	Zinc plated	Painted	Painted	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
Cable fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc Plated	Zinc Plated	Zinc plated	Zinc plated
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc Plated	Zinc Plated	Zinc plated	Zinc plated
Average weight (g)		-	-	-	-	-	-
Note		w/ Wheel type cable guide					

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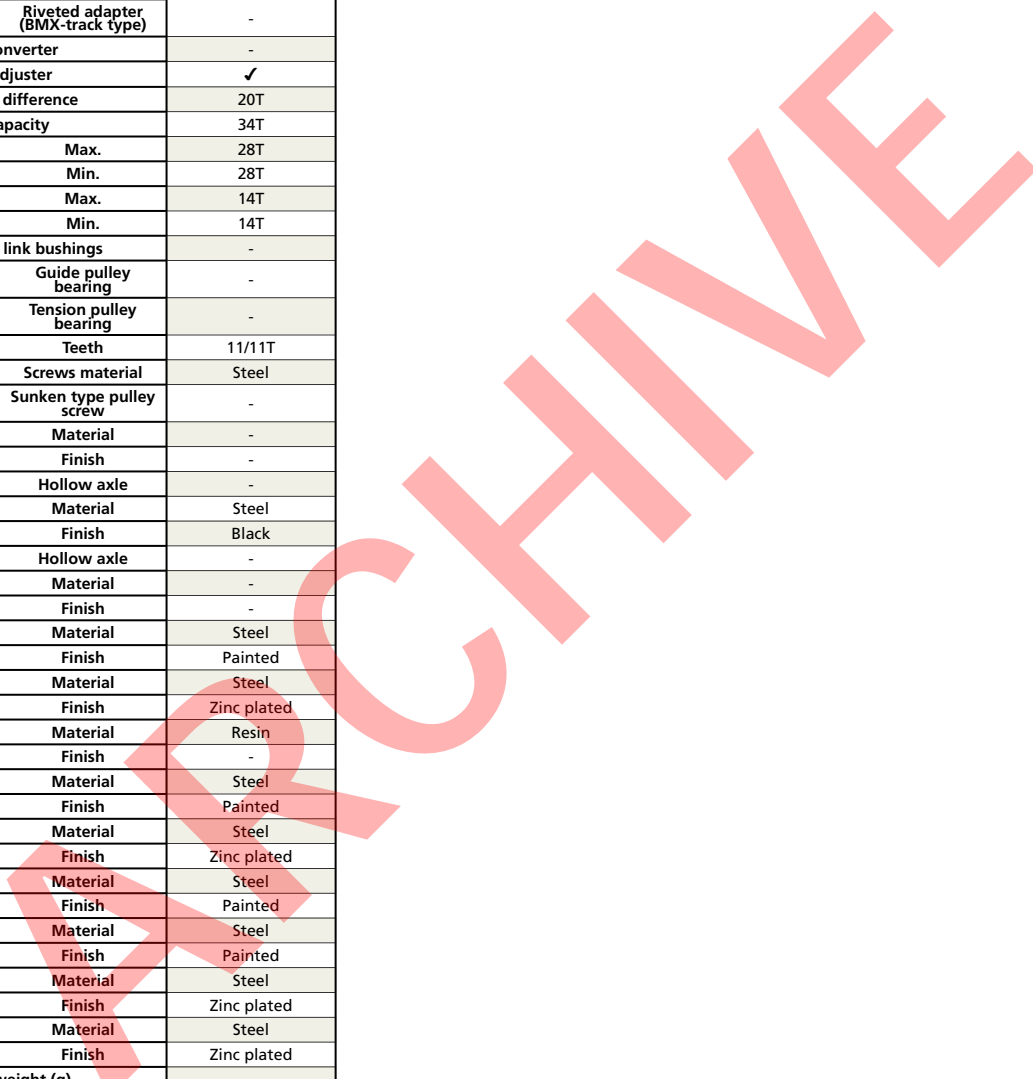
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Rear Derailleur

Series		TOURNEY TZ
Model no.		RD-TZ500-GS
Pulley cage		G5
Color	1	Series color
	2	-
Rear speeds		6
Compatible chain		HG-UG 6-speed
Top-normal spring type	SHIMANO SHADOW RD	-
	SHIMANO SHADOW RD+	-
	Double servo	-
Mount	Direct attachment (conventional)	✓
	Direct mount	-
	Riveted adapter (road type)	✓
	Riveted adapter (BMX-track type)	-
Mode converter		-
Cable adjuster		✓
Max. front difference		20T
Total capacity		34T
Low sprocket	Max.	28T
	Min.	28T
Top sprocket	Max.	14T
	Min.	14T
Fluoric coated link bushings		-
Pulley	Guide pulley bearing	-
	Tension pulley bearing	-
	Teeth	11/11T
	Screws material	Steel
	Sunken type pulley screw	-
Bracket	Material	-
	Finish	-
B-axle	Hollow axle	-
	Material	Steel
	Finish	Black
B-axle 2	Hollow axle	-
	Material	-
	Finish	-
Bracket body	Material	Steel
	Finish	Painted
P-axle	Material	Steel
	Finish	Zinc plated
Plate body	Material	Resin
	Finish	-
Outer link	Material	Steel
	Finish	Painted
Inner link	Material	Steel
	Finish	Zinc plated
Outer plate	Material	Steel
	Finish	Painted
Inner plate	Material	Steel
	Finish	Painted
Cable fixing screw	Material	Steel
	Finish	Zinc plated
Stroke adjusting screw	Material	Steel
	Finish	Zinc plated
Average weight (g)		-
Note		



Front Derailleur

Series		XTR	XTR	XTR	DEORE XT	DEORE XT	DEORE XT
Model no.		FD-M9100-D	FD-M9100-E	FD-M9100-M	FD-M8100-D	FD-M8100-E	FD-M8100-M
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Front speeds		2	2	2	2	2	2
Rear speeds		12	12	12	12	12	12
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
Action	TOP SWING	-	-	-	-	-	-
	Down swing	-	-	-	-	-	-
	SIDE SWING	✓	✓	✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	-	-	-	-	-
		31.8	-	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)
		34.9	-	-	✓	-	✓
	E-type	With bottom bracket plate	-	-	-	-	-
		Without bottom bracket plate	-	✓	-	-	✓
	Direct mount	✓	-	-	✓	-	-
Cable route type	Dual-pull	-	-	-	-	-	
	Top-pull exclusive	-	-	-	-	-	
	Down-pull exclusive	-	-	-	-	-	
	Front-pull	✓	✓	✓	✓	✓	
Chain line (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.)
Chainstay angle (deg.)		66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth		38T	38T	38T	36-38T	36-38T	36-38T
Total capacity		10T	10T	10T	10T	10T	10T
Applicable top-mid tooth difference		-	-	-	-	-	-
Multi access cable fixing screw		-	-	-	-	-	-
Angled stroke adjust screw		✓	✓	✓	✓	✓	✓
Angled clamp band design		-	-	-	-	-	✓
Link bushings		6	6	6	6	6	6
Front clamp band	Material	-	-	Aluminum	-	-	Aluminum
	Finish	-	-	Painted	-	-	Painted
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	-	-	Stainless steel	-	-	Stainless steel
	Finish	-	-	-	-	-	-
Bottom bracket plate	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	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	Plated	Plated
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Black	Black	Black	Black	Black	Black
Average weight (g) (band type: L size, direct type w/ screw)		110	88	99	135	106	114
Note		-	-	* S-size adapter is available in OTC package only Chain line 48.8 mm, 51.8 mm compatible	-	-	* S-size adapter is available in OTC package only Chain line 48.8 mm, 51.8 mm compatible

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Front Derailleur

Series		SLX	SLX	SLX	SLX	SLX	SLX	
Model no.		FD-M7100-D	FD-M7100-E	FD-M7100-M	FD-M7025-11-D	FD-M7025-11-H	FD-M7025-11-L	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front speeds		2	2	2	2	2	2	
Rear speeds		12	12	12	11	11	11	
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG-X11	HG-X11	HG-X11	
Action	TOP SWING	-	-	-	-	-	✓	
	Down swing	-	-	-	✓	✓	-	
	SIDE SWING	✓	✓	✓	-	-	-	
Mount	Clamp band (mm)	28.6	-	-	-*	-*	-*	
		31.8	-	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	-	-	✓	-	✓	✓
	E-type	With bottom bracket plate	-	-	✓	-	-	-
		Without bottom bracket plate	-	✓	-	-	-	-
	Direct mount	✓	-	-	✓	-	-	
Cable route type	Dual-pull	-	-	-	✓	✓	-	
	Top-pull exclusive	-	-	-	-	-	-	
	Down-pull exclusive	-	-	-	-	-	✓	
	Front-pull	✓	✓	✓	-	-	-	
Chain line (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	
Chainstay angle (deg.)		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-mid tooth difference		-	-	-	-	-	-	
Multi access cable fixing screw		-	-	-	-	-	-	
Angled stroke adjust screw		✓	✓	✓	✓	✓	✓	
Angled clamp band design		-	-	✓	-	✓	✓	
Link bushings		6	6	6	6	6	6	
Front clamp band	Material	-	-	Aluminum	-	Aluminum	Aluminum	
	Finish	-	-	Painted	-	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	-	-	Stainless steel	-	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	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 screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke adjusting screw	Material	Steel	Steel	Steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	-	-	-	
Average weight (g) (band type: L size, direct type w/ screw)		135	106	114	140	152	133	
Note				* S-size adapter is available in OTC package only Chain line 48.8 mm, 51.8 mm compatible		* S-size adapter is available in OTC package only.	* S-size adapter is available in OTC package only.	

Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		FD-M785	FD-M785-E2	FD-M786	FD-M786-D	FD-M770	FD-M770-E	
Color	1	Black	Black	Black	Black	Series color	Series color	
	2	-	-	Silver	Silver	-	-	
Front speeds		2	2	2	2	3	3	
Rear speeds		10	10	10	10	9	9	
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	
Action	TOP SWING	✓	✓	-	-	✓	✓	
	Down swing	-	-	✓	✓	-	-	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	
		31.8	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	
		34.9	✓	-	✓	-	✓	
	E-type	With bottom bracket plate	-	-	-	-	-	✓
		Without bottom bracket plate	-	✓	-	-	-	✓
	Direct mount	-	-	-	✓	-	-	
Cable route type	Dual-pull	✓	✓	✓	✓	✓	✓	
	Top-pull exclusive	-	-	✓	✓	-	-	
	Down-pull exclusive	-	-	-	-	-	-	
	Front-pull	-	-	-	-	-	-	
Chain line (mm)		48.8	48.8	48.8	48.8	50	50	
Chainstay angle (deg.)		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-mid tooth difference		-	-	-	-	12T	12T	
Multi access cable fixing screw		✓	✓	-	-	-	-	
Angled stroke adjust screw		✓	✓	✓	✓	✓	✓	
Angled clamp band design		✓	-	✓	-	✓	-	
Link bushings		2	2	8	8	2	2	
Front clamp band	Material	Aluminum	-	Aluminum	-	Aluminum	-	
	Finish	Painted	-	Painted	-	Painted	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Stainless steel	-	Stainless steel	-	Stainless steel	-	
	Finish	-	-	-	-	-	-	
Bottom bracket plate	Material	-	-	-	-	-	Aluminum	
	Finish	-	-	-	-	-	Painted	
Outer link	Material	Steel	Steel	Aluminum	Aluminum	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke adjusting screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Average weight (g) (band type: L size, direct type w/ screw)		136	127	155	146	152	166	
Note		* Outer casing stopper integrated design.			* Outer casing stopper integrated design.			

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Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	SLX	SLX	DEORE	
Model no.		FD-M771	FD-M771-D	FD-M772A	FD-M660	FD-M661	FD-M6000-H	
Color	1	Series color	Series color	Series color	Series color	Series color	Series Black	
	2	-	-	-	-	-	-	
Front speeds		3	3	3	3	3	3	
Rear speeds		9	9	9	9	9	10	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG-X 10speed	
Action	TOP SWING	-	-	✓	✓	-	-	
	Down swing	✓	✓	-	-	✓	-	
	SIDE SWING	-	-	-	-	-	✓	
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9	✓	-	✓	✓	✓	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount	-	✓	-	-	-	-	
Cable route type	Dual-pull	✓	✓	✓ (w/ M size adapter)	✓	✓	-	
	Top-pull exclusive	-	-	✓	-	-	-	
	Down-pull exclusive	-	-	-	-	-	-	
	Front-pull	-	-	-	-	-	✓	
Chain line (mm)		50	50	50	50	50	50	
Chainstay angle (deg.)		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-mid tooth difference		12T	12T	12T	12T	12T	10T	
Multi access cable fixing screw		-	-	-	-	-	-	
Angled stroke adjust screw		✓	✓	-	✓	✓	✓	
Angled clamp band design		✓	-	✓	✓	✓	✓	
Link bushings		8	8	2	2	8	4	
Front clamp band	Material	Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	-	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	-	Painted	Painted	Painted	Painted	
Clamp screw	Material	Stainless steel	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	GFRP + Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	-	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Plated	
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke adjusting screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	
	Finish	-	-	-	-	-	Black	
Average weight (g) (band type: L size, direct type w/ screw)		155	147	160	155	158	-	
Note					* Outer casing stopper integrated design.			

Front Derailleur

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE	
Model no.		FD-M6000-M	FD-M6000-L	FD-M6000-D	FD-M6000-E	FD-M6025-H	FD-M6025-L	
Color	1	Series Black	Series Black	Series Black	Series Black	Series Black	Series Black	
	2	-	-	-	-	-	-	
Front speeds		3	3	3	3	2	2	
Rear speeds		10	10	10	10	10	10	
Compatible chain		HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	
Action	TOP SWING	-	-	-	-	-	✓	
	Down swing	-	-	-	-	✓	-	
	SIDE SWING	✓	✓	✓	✓	-	-	
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	✓ (w/ S size adapter)	-	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	-	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	✓	✓	-	-	✓	✓
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	✓	-	-
	Direct mount	-	-	✓	-	-	-	-
Cable route type	Dual-pull	-	-	-	-	✓	-	
	Top-pull exclusive	-	-	-	-	-	-	
	Down-pull exclusive	-	-	-	-	-	✓	
	Front-pull	✓	✓	✓	✓	-	-	
Chain line (mm)		50	50	50	50	48.8	48.8	
Chainstay angle (deg.)		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		40-42T	40-42T	40-42T	40-42T	34-38T	34-38T	
Total capacity		18T	18T	18T	18T	10T	10T	
Applicable top-mid tooth difference		10T	10T	10T	10T	-	-	
Multi access cable fixing screw		-	-	-	-	-	-	
Angled stroke adjust screw		✓	✓	✓	✓	✓	✓	
Angled clamp band design		✓	✓	-	-	✓	✓	
Link bushings		4	4	4	4	8	2	
Front clamp band	Material	Aluminum	Aluminum	-	-	Aluminum	Aluminum	
	Finish	Painted	Painted	-	-	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Stainless steel	Stainless steel	-	-	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	GFRP + Steel	GFRP + Steel	GFRP + Steel	GFRP + Steel	Aluminum	Steel	
	Finish	-	-	-	-	Painted	Painted	
Inner link	Material	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 screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	Black	-	-	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-	
Note								

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Front Derailleur

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE	
Model no.		FD-M6025-D	FD-M5100-D	FD-M5100-E	FD-M5100-M	FD-M4100-D	FD-M4100-E	
Color	1	Series Black	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front speeds		2	2	2	2	2	2	
Rear speeds		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	
Action	TOP SWING	-	-	-	-	-	-	
	Down swing	✓	-	-	-	-	-	
	SIDE SWING	-	✓	✓	✓	✓	✓	
Mount	Clamp band (mm)	28.6	-	-	-	-*	-	
		31.8	-	-	-	✓ (w/ M size adapter)	-	
		34.9	-	-	-	✓	-	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	✓	-	-	✓
	Direct mount	✓	✓	-	-	✓	-	
Cable route type	Dual-pull	✓	-	-	-	-	-	
	Top-pull exclusive	-	-	-	-	-	-	
	Down-pull exclusive	-	-	-	-	-	-	
	Front-pull	-	✓	✓	✓	✓	✓	
Chain line (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	
Chainstay angle (deg.)		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-mid tooth difference		-	-	-	-	-	-	
Multi access cable fixing screw		-	-	-	-	-	-	
Angled stroke adjust screw		✓	✓	✓	✓	✓	✓	
Angled clamp band design		-	-	-	✓	-	-	
Link bushings		8	4	4	4	4	4	
Front clamp band	Material	-	-	-	Aluminum	-	-	
	Finish	-	-	-	Painted	-	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Stainless steel	-	-	Stainless steel	-	-	
	Finish	-	-	-	-	-	-	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	
	Finish	Painted	-	-	-	-	-	
Inner link	Material	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 screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke adjusting screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	Black	Black	Black	Black	Black	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-	
Note		* Compatible with the special crankset which chain line is 3 mm outboard.			* S-size adapter is available in OTC package only.			

Front Derailleur

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE	
Model no.		FD-M4100-M	FD-M617-H	FD-M617-L	FD-M617-D	FD-M617-E	FD-M618-E	
Color	1	Series color	Black	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
Front speeds		2	2	2	2	2	2	
Rear speeds		10	10	10	10	10	10	
Compatible 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	
Action	TOP SWING	-	-	-	-	-	✓	
	Down swing	-	-	-	-	-	-	
	SIDE SWING	✓	✓	✓	✓	✓	-	
Mount	Clamp band (mm)	28.6	- *	✓ (w/ S size adapter)	✓ (w/ S size adapter)	-	-	
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	-	-	
		34.9	✓	✓	✓	-	-	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	✓	✓
	Direct mount	-	-	-	✓	-	-	
Cable route type	Dual-pull	-	-	-	-	-	-	
	Top-pull exclusive	-	-	-	-	-	-	
	Down-pull exclusive	-	-	-	-	-	✓	
	Front-pull	✓	✓	✓	✓	✓	-	
Chain line (mm)		48.8/51.8	48.8	48.8	48.8	48.8	48.8*	
Chainstay angle (deg.)		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		36T	36-38T	36-38T	36-38T	36-38T	36-38T	
Total capacity		10T	14T	14T	14T	14T	14T	
Applicable top-mid tooth difference		-	-	-	-	-	-	
Multi access cable fixing screw		-	-	-	-	-	-	
Angled stroke adjust screw		✓	✓	✓	✓	✓	✓	
Angled clamp band design		✓	✓	✓	-	-	-	
Link bushings		4	4	4	4	4	2	
Front clamp band	Material	Aluminum	Aluminum	Aluminum	-	-	-	
	Finish	Painted	Painted	Painted	-	-	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel	-	-	Stainless steel	
	Finish	-	-	-	-	-	-	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	GFRP+Steel	GFRP + Steel	GFRP + Steel	GFRP + Steel	GFRP + Steel	Steel	
	Finish	-	-	-	-	-	Painted	
Inner link	Material	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 screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke adjusting screw	Material	Stainless steel	Steel	Steel	Steel	Steel	Stainless steel	
	Finish	Black	Black	Black	Black	Black	-	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-	
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.	

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Front Derailleur

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE	
Model no.		FD-M610-B	FD-M610-E	FD-M611-B	FD-M611-D	FD-M615-B	FD-M615-E2	
Color	1	Black	Black	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
Front speeds		3	3	3	3	2	2	
Rear speeds		10	10	10	10	10	10	
Compatible 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	
Action	TOP SWING	✓	✓	-	-	✓	✓	
	Down swing	-	-	✓	✓	-	-	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	
		31.8	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	
		34.9	✓	-	✓	-	✓	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	✓	-	-	-	✓
	Direct mount	-	-	-	✓	-	-	
Cable route type	Dual-pull	✓	✓	✓	✓	✓	✓	
	Top-pull exclusive	-	-	✓	✓	-	-	
	Down-pull exclusive	-	-	-	-	-	-	
	Front-pull	-	-	-	-	-	-	
Chain line (mm)		50	50	50	50	48.8	48.8	
Chainstay angle (deg.)		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-mid tooth difference		10T	10T	10T	10T	-	-	
Multi access cable fixing screw		✓	✓	-	-	✓	✓	
Angled stroke adjust screw		✓	✓	✓	✓	✓	✓	
Angled clamp band design		✓	-	✓	-	✓	-	
Link bushings		2	2	8	8	2	2	
Front clamp band	Material	Aluminum	-	Aluminum	-	Aluminum	-	
	Finish	Painted	-	Painted	-	Painted	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Stainless steel	-	Stainless steel	-	Stainless steel	-	
	Finish	-	-	-	-	-	-	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Aluminum	Aluminum	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke adjusting screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-	
Note								

Front Derailleur

Series		DEORE	DEORE	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	
Model no.		FD-M616-B	FD-M616-D	FD-M4020-M	FD-M3100-M	FD-M3120-D	FD-M3120-E	
Color	1	Black	Black	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front speeds		2	2	2	3	2	2	
Rear speeds		10	10	9	9	9	9	
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	
Action	TOP SWING	-	-	-	-	-	-	
	Down swing	✓	✓	-	-	-	-	
	SIDE SWING	-	-	✓	✓	✓	✓	
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	-	
		31.8	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	-	
		34.9	✓	-	✓	✓	-	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	✓
	Direct mount		-	✓	-	-	✓	-
Cable route type	Dual-pull	✓	✓	-	-	-	-	
	Top-pull exclusive	✓	✓	-	-	-	-	
	Down-pull exclusive	-	-	-	-	-	-	
	Front-pull	-	-	✓	✓	✓	✓	
Chain line (mm)		48.8	48.8	48.8	50	48.8/51.8	48.8/51.8	
Chainstay angle (deg.)		66-69	66-69	64-69	66-69	64-69	64-69	
Top gear teeth		38-44T	38-44T	36T	40T	36T	36T	
Total capacity		14T	14T	14T	18T	14T	14T	
Applicable top-mid tooth difference		-	-	-	10T	-	-	
Multi access cable fixing screw		-	-	-	-	-	-	
Angled stroke adjust screw		✓	✓	✓	✓	✓	✓	
Angled clamp band design		✓	-	-	✓	✓	✓	
Link bushings		8	8	4	4	4	4	
Front clamp band	Material	Aluminum	-	Steel	Steel	-	-	
	Finish	Painted	-	Painted	Painted	-	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Stainless steel	-	Stainless steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	-	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Pearl Bright	Pearl Bright	Chrome plated	Chrome Plated	Chrome Plated	Chrome Plated	
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke adjusting screw	Material	Stainless steel	Stainless steel	Stainless steel	-	-	-	
	Finish	-	-	-	-	-	-	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-	
Note		-	-	-	-	-	-	

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Front Derailleur

Series		SHIMANO ALIVIO	SHIMANO ALIVIO	ACERA	ALTUS	ALTUS	ALTUS	
Model no.		FD-M3120-M	FD-M3120-M-B	FD-M3000-TS6	FD-M2020-TS	FD-M2000-TS3	FD-M2000-TS6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front speeds		2	2	3	2	3	3	
Rear speeds		9	9	9	9	9	9	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	
Action	TOP SWING	-	-	✓	✓	✓	✓	
	Down swing	-	-	-	-	-	-	
	SIDE SWING	✓	✓	-	-	-	-	
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9	✓	✓	✓	✓	✓	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount		-	-	-	-	-	-
Cable route type	Dual-pull	-	-	✓	✓	✓	✓	
	Top-pull exclusive	-	-	-	-	-	-	
	Down-pull exclusive	-	-	-	-	-	-	
	Front-pull	✓	✓	-	-	-	-	
Chain line (mm)		48.8	51.8	50	48.8/51.8*	50	50	
Chainstay angle (deg.)		64-69	64-69	66-69	64-69	63-66	66-69	
Top gear teeth		36T	36T	40T	36T	40T	40T	
Total capacity		14T	14T	18T	14T	18T	18T	
Applicable top-mid tooth difference		-	-	10T	-	10T	10T	
Multi access cable fixing screw		-	-	-	-	-	-	
Angled stroke adjust screw		✓	✓	✓	✓	✓	✓	
Angled clamp band design		✓	✓	✓	✓	✓	✓	
Link bushings		4	4	-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Steel	Steel	Stainless steel	Steel	Steel	Steel	
	Finish	-	-	-	Nickel Plated	Nickel Plated	Nickel Plated	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Zinc plated	Zinc plated	Zinc plated	
Inner link	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome Plated	Chrome Plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke adjusting screw	Material	-	-	Steel	Steel	Steel	Steel	
	Finish	-	-	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-	
Note							* Boost Spec	

Front Derailleur

Series		ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	
Model no.		FD-M2000-DS3	FD-M2000-DS6	FD-M370-3	FD-M370-6	FD-M371-3	FD-M371-6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front speeds		3	3	3	3	3	3	
Rear speeds		9	9	9	9	9	9	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	
Action	TOP SWING	-	-	✓	✓	-	-	
	Down swing	✓	✓	-	-	✓	✓	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9	✓	✓	✓	✓	✓	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount		-	-	-	-	-	-
Cable route type	Dual-pull	✓	✓	✓	✓	✓	✓	
	Top-pull exclusive	-	-	-	-	-	-	
	Down-pull exclusive	-	-	-	-	-	-	
	Front-pull	-	-	-	-	-	-	
Chain line (mm)		50	50	50	50	50	50	
Chainstay angle (deg.)		63-66	66-69	63-66	66-69	63-66	66-69	
Top gear teeth		40T	40T	44T/48T	44T/48T	44T/48T	44T/48T	
Total capacity		18T	18T	22T	22T	22T	22T	
Applicable top-mid tooth difference		10T	10T	12T	12T	12T	12T	
Multi access cable fixing screw		-	-	-	-	-	-	
Angled stroke adjust screw		✓	✓	-	-	-	-	
Angled clamp band design		✓	✓	✓	✓	✓	✓	
Link bushings		-	-	-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel Plated	Nickel Plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted/Zinc plated	Painted/Zinc plated	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing screw	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel	
	Finish	-	-	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-	
Note								

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Front Derailleur

Series		ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	TOURNEY TX	
Model no.		FD-M315-TS	FD-M313-3	FD-M313-6	FD-M310-3	FD-M310-6	FD-TX800-TS3	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front speeds		2	3	3	3	3	3	
Rear speeds		8/7	8/7	8/7	8/7	8/7	8/7	
Compatible chain		HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	
Action	TOP SWING	✓	-	-	✓	✓	✓	
	Down swing	-	✓	✓	-	-	-	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9	✓	✓	✓	✓	✓	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount	-	-	-	-	-	-	
Cable route type	Dual-pull	✓	✓	✓	✓	✓	✓	
	Top-pull exclusive	-	-	-	-	-	-	
	Down-pull exclusive	-	-	-	-	-	-	
	Front-pull	-	-	-	-	-	-	
Chain line (mm)		48.8/51.8*	47.5/50	47.5/50	47.5/50	47.5/50	47.5/50	
Chainstay angle (deg.)		64-69	63-66	66-69	63-66	66-69	63-66	
Top gear teeth		36T	42T/48T	42T/48T	42T/48T	42T/48T	42T/48T	
Total capacity		14T	20T	20T	20T	20T	20T	
Applicable top-mid tooth difference		-	10T	10T	10T	10T	10T	
Multi access cable fixing screw		-	-	-	-	-	-	
Angled stroke adjust screw		✓	-	-	-	-	-	
Angled clamp band design		✓	✓	✓	✓	✓	✓	
Link bushings		-	-	-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Steel	Aluminum	Aluminum	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Zinc plated	
Inner link	Material	Zinc plated	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-	
Note		* Boost spec.						

Front Derailleur

Series		TOURNEY TX	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	
Model no.		FD-TX800-TS6	FD-TY700-TS3	FD-TY700-TS6	FD-TY710-2-TS3	FD-TY710-TS3	FD-TY710-TS6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front speeds		3	3	3	2	3	3	
Rear speeds		8/7	8/7	8/7	8/7	8/7	8/7	
Compatible chain		HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	
Action	TOP SWING	✓	✓	✓	✓	✓	✓	
	Down swing	-	-	-	-	-	-	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)
		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	✓	✓	✓	✓	✓	✓
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount		-	-	-	-	-	-
Cable route type	Dual-pull	✓	✓	✓	✓	✓	✓	
	Top-pull exclusive	-	-	-	-	-	-	
	Down-pull exclusive	-	-	-	-	-	-	
	Front-pull	-	-	-	-	-	-	
Chain line (mm)		47.5/50	47.5/50	47.5/50	48.8	47.5/50	47.5/50	
Chainstay angle (deg.)		66-69	63-66	66-69	63-68	63-66	66-69	
Top gear teeth		42T/48T	42T	42T	46T	48T	48T	
Total capacity		20T	18T	18T	16T	20T	20T	
Applicable top-mid tooth difference		10T	8T	8T	-	10T	10T	
Multi access cable fixing screw		-	-	-	-	-	-	
Angled stroke adjust screw		-	-	-	-	-	-	
Angled clamp band design		✓	✓	✓	✓	✓	✓	
Link bushings		-	-	-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-	
Note								

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Front Derailleur

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	
Model no.		FD-TY500-TS3	FD-TY500-TS6	FD-TY510-TS3	FD-TY510-TS6	FD-TY300-DS6(475)	FD-TY300-DS6(50)	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front speeds		3	3	3	3	3	3	
Rear speeds		7/6	7/6	7/6	7/6	7/6	7/6	
Compatible chain		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	HG-UG 7/6-speed	
Action	TOP SWING	✓	✓	✓	✓	-	-	
	Down swing	-	-	-	-	✓	✓	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓	
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓	
		34.9	✓	✓	✓	✓	-	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount	-	-	-	-	-	-	
Cable route type	Dual-pull	✓	✓	✓	✓	-	-	
	Top-pull exclusive	-	-	-	-	✓	✓	
	Down-pull exclusive	-	-	-	-	✓	✓	
	Front-pull	-	-	-	-	-	-	
Chain line (mm)		47.5/50	47.5/50	47.5/50	47.5/50	47.5	50	
Chainstay angle (deg.)		63-66	66-69	63-66	66-69	66-69	66-69	
Top gear teeth		42T	42T	48T	48T	42T	42T	
Total capacity		18T	18T	20T	20T	18T	18T	
Applicable top-mid tooth difference		8T	8T	10T	10T	8T	8T	
Multi access cable fixing screw		-	-	-	-	-	-	
Angled stroke adjust screw		-	-	-	-	-	-	
Angled clamp band design		✓	✓	✓	✓	-	-	
Link bushings		-	-	-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Painted	Painted	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Painted	Painted	
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel/Resin	Steel/Resin	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Zinc plated	Zinc plated	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated/ Painted	Chrome plated/ Painted	Chrome plated/ Painted	Chrome plated/ Painted	Zinc plated	Zinc plated	
Cable fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-	
Note								

Front Derailleur

Series		TOURNEY TZ	TOURNEY TZ	
Model no.		FD-TZ500-DS6	FD-TZ510-DS6	
Color	1	Series color	Series color	
	2	-	-	
Front speeds		3 (friction)	3 (friction)	
Rear speeds		7/6	7/6	
Compatible chain		HG-UG 7/6-speed	HG-UG 7/6-speed	
Action	TOP SWING	-	-	
	Down swing	✓	✓	
	SIDE SWING	-	-	
Mount	Clamp band (mm)	28.6	✓	✓
		31.8	✓	✓
		34.9	-	-
	E-type	With bottom bracket plate	-	-
		Without bottom bracket plate	-	-
Direct mount	-	-		
Cable route type	Dual-pull	-	-	
	Top-pull exclusive	✓	✓	
	Down-pull exclusive	✓	✓	
	Front-pull	-	-	
Chain line (mm)		47.5	47.5	
Chainstay angle (deg.)		66-69	66-69	
Top gear teeth		42T	48T	
Total capacity		18T	20T	
Applicable top-mid tooth difference		8T	10T	
Multi access cable fixing screw		-	-	
Angled stroke adjust screw		-	-	
Angled clamp band design		-	-	
Link bushings		-	-	
Front clamp band	Material	Steel	Steel	
	Finish	Painted	Painted	
Rear clamp band, base bracket	Material	Steel	Steel	
	Finish	Painted	Painted	
Clamp screw	Material	Steel	Steel	
	Finish	Zinc plated	Zinc plated	
Bottom bracket plate	Material	-	-	
	Finish	-	-	
Outer link	Material	Steel/Resin	Steel/Resin	
	Finish	Painted	Painted	
Inner link	Material	Steel	Steel	
	Finish	Painted	Painted	
Chain guide	Material	Steel	Steel	
	Finish	Painted	Painted	
Cable fixing screw	Material	Steel	Steel	
	Finish	Zinc plated	Zinc plated	
Stroke adjusting screw	Material	Steel	Steel	
	Finish	Zinc plated	Zinc plated	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	
Note				



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Brake (Hydraulic Disc Brake)

Series		XTR	XTR	XTR	SAINT	DEORE XT	DEORE XT
Model no.		BR-M9100	BR-M9110-R	BR-M9120	BR-M820	BR-M8100	BR-M8110-R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SS	SM-BH90-SS	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SS
Hose joint		Straight	Straight	Banjo	Banjo	Banjo	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	White	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		-	✓	✓	✓	✓	✓
Pad	Standard 1	K03Ti Resin pad w/o fin (w/ titanium back plate)	K03Ti Resin (w/o fin)	N03A Resin pad (w/ radiator fin)	H01A Resin H03A Resin	G03A Resin (w/o fin)	K03S Resin (w/o fin)
	Standard 2	K04Ti Metal pad w/o fin (w/ titanium back plate)	K04Ti Metal (w/o fin)	N04C Metal pad (w/ radiator fin)	H03C Metal	G04S Metal (w/o fin)	K04S Metal (w/o fin)
	Option 1	-	-	-	-	J03A Resin (w/ fin)	L03A Resin (w/ fin)
	Option 2	-	-	-	-	J04C Metal (w/ fin)	L04C Metal (w/ fin)
Fixing screw spec for rear mount	10 mm mount	-	-	-	-	-	-
	15 mm mount	-	-	-	-	-	-
	20 mm mount	-	✓	-	-	-	✓
	25 mm mount	-	✓	-	-	-	✓
	30 mm mount	-	✓	-	-	-	✓
	35 mm mount	-	-	-	-	-	-
Recommended brake lever		BL-M9100	BL-M9100	BL-M9120	BL-M820	BL-M8100 BL-T8100	BL-M8100
Recommended disc brake rotor		RT-MT900	RT-MT900	RT-MT900	SM-RT99 SM-RT86	RT-MT800	RT-MT800
Compatible brake rotor size	140 mm (SS)	✓	✓	✓	✓	✓	✓
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	✓	-	✓	✓	✓	✓
	203 mm (L)	-	-	✓	✓	✓	-
	220 mm (LL)	-	-	-	-	-	-
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	-	✓	✓	✓
Mount type		Post-type	Flat mount	Post-type	Post-type	Post-type	Flat mount
Piston		2	2	4	4	2	2
Piston material		Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Caliper	MONO-BODY	✓	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodizing	Anodizing	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Ti	Steel	Ti	Steel	Steel	Steel
	Tool size	** 4 mm	4 mm	** 4 mm	5 mm	5 mm	4 mm
	Anti loosen method	Wiring	Bolt fix pin/Snap ring	Wiring	Snap ring	Snap ring	Bolt fix pin/Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		98	123	145	168	136	140
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 (BL-M9100)	341 (BL-M9100)	385 (BL-M9120)	438 (BL-M820)	392 (BL-M8100)	417 (BL-M8100)
Note		** Titanium	For rear only. 140 mm disc brake rotor direct mount	** Titanium			For rear only.

Brake (Hydraulic Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	SLX	SLX	SLX
Model no.		BR-M8120	BR-M8000	BR-M8020	BR-M7100	BR-M7110-R	BR-M7120
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SBM	SM-BH90-SB	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SS	SM-BH90-SBM
Hose joint		Banjo	Banjo	Banjo	Banjo	Straight	Banjo
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
J-Kit spec (for OEM)		✓	-	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	✓	✓	✓	✓	✓
Pad	Standard 1	N03A Resin (w/ fin)	G02A Resin G03A Resin	H01A Resin H03A Resin	G03S Resin (w/o fin)	K03S Resin (w/o fin)	D03S Resin (w/o fin)
	Standard 2	N04C Metal (w/ fin)	J02A Resin J03A Resin	H03C Metal	G04S Metal (w/o fin)	K04S Metal (w/o fin)	N03A Resin (w/ fin)
	Option 1	D03S Resin (w/o fin)	G04S Metal	D01S Resin D03S Resin	J03A Resin (w/ fin)	L03A Resin (w/ fin)	D02S Metal (w/o fin)
	Option 2	D02S Metal (w/o fin)	J04C Metal	-	J04C Metal (w/ fin)	L04C Metal (w/ fin)	N04C Metal (w/ fin)
Fixing screw spec for rear mount	10 mm mount	-	-	-	-	-	-
	15 mm mount	-	-	-	-	-	-
	20 mm mount	-	-	-	-	✓	-
	25 mm mount	-	-	-	-	✓	-
	30 mm mount	-	-	-	-	✓	-
	35 mm mount	-	-	-	-	-	-
Recommended brake lever		BL-M8100 BL-T8100	BL-M8000 BL-T8000	BL-M8000	BL-M7100	BL-M7100	BL-M7100
Recommended disc brake rotor		RT-MT800	RT-MT800 SM-RT86	RT-MT800 SM-RT99 RT-EM810 RT-EM910	SM-RT70	SM-RT70	SM-RT70
Compatible brake rotor size	140 mm (SS)	✓	✓	✓	✓	✓	✓
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	✓	✓	✓	✓	✓	✓
	203 mm (L)	✓	✓	✓	✓	-	✓
	220 mm (LL)	-	-	-	-	-	-
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		-	✓	✓	✓	✓	-
Mount type		Post-type	Post-type	Post-type	Post-type	Flat mount	Post-type
Piston		4	2	4	2	2	4
Piston material		Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	5 mm	5 mm	5 mm	5 mm	4 mm	5 mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	Snap ring	Bolt fix pin/Snap ring	Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		160	-	168	143	140	160
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)		410 (BL-M8100)	403 (BL-M8000)	-	425 (BL-M7100)	443 (BL-M7100)	444 (BL-M7100)
Note						For rear only.	

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Brake (Hydraulic Disc Brake)

Series		DEORE	DEORE	DEORE	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-M6100	BR-M6120	BR-M6000	BR-MT520	BR-MT500	BR-MT420
Color	1	Series Color	Series Color	Series Black	Black	Black	Black
	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 hose (kit)		SM-BH90-SS	SM-BH90-SS	SM-BH90-SS	SM-BH90-SS	SM-BH59-JK-SS	SM-BH90-SS
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	-	✓	-	-	-
Pad	Standard 1	G03S Resin	D03S Resin	G02S Resin, G03S Resin	D03S resin	B03S Resin	D03S Resin
	Standard 2	J03A Resin	-	J02A Resin ** J03A Resin **	D02S Metal	-	D02S Metal
	Option 1	G04S Metal	D02S Metal	G04S Metal **	-	-	-
	Option 2	-	-	-	-	-	-
Fixing screw spec for rear mount	10 mm mount	-	-	-	-	-	-
	15 mm mount	-	-	-	-	-	-
	20 mm mount	-	-	-	-	-	-
	25 mm mount	-	-	-	-	-	-
	30 mm mount	-	-	-	-	-	-
	35 mm mount	-	-	-	-	-	-
Recommended brake lever		BL-M6100	BL-M6100	BL-M6100 BL-MT501 BL-T6000	BL-MT501	BL-MT500	BL-MT401 BL-MT402-3A
Recommended disc brake rotor		SM-RT54* SM-RT56* SM-RT64 SM-RT66	SM-RT54* SM-RT56* SM-RT64 SM-RT66	SM-RT54**** SM-RT56**** SM-RT64 SM-RT66	SM-RT70	SM-RT54* SM-RT56*	SM-RT30 * SM-RT54 * SM-RT56 * SM-RT64
Compatible brake rotor size	140 mm (SS)	✓	✓	✓	✓	-	✓
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	✓	✓	✓	✓	✓	✓
	203 mm (L)	✓	✓	✓	✓	-	✓
	220 mm (LL)	-	-	-	-	-	-
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓	✓
Mount type		Post-type	Post-type	Post-type	Post-type	Post-type	Post-type
Piston		2	4	2	4	2	4
Piston material		Resin	Ceramic	Resin	Ceramic	Resin	Resin
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	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 Stainless Steel	Split pin Stainless Steel	Split pin (stainless steel)	Split pin	Split pin (stainless steel)	Split pin
Average weight (g)		-	-	-	-	-	-
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)		-	-	-	-	-	-
Note		*: 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 **** Only compatible with resin pad		* Only compatible with resin pad	* Only compatible with resin pad

Brake (Hydraulic Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-MT410	BR-MT400	BR-MT200	BR-UR300
Color	1	Black (SHIMANO logo)	Black	Black	Black
	2	-	Silver	-	-
	3	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black
	2	-	-	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		-	-	-	-
Pad	Standard 1	B03S Resin	B03S Resin	B03S Resin	B03S Resin
	Standard 2	-	-	-	-
	Option 1	-	-	-	-
	Option 2	-	-	-	-
Fixing screw spec for rear mount	10 mm mount	-	-	-	✓
	15 mm mount	-	-	-	✓
	20 mm mount	-	-	-	✓
	25 mm mount	-	-	-	✓
	30 mm mount	-	-	-	✓
	35 mm mount	-	-	-	✓
Recommended brake lever		BL-M4100	BL-MT400 BL-MT401 BL-MT402-3A	BL-MT201 BL-MT200	BL-MT201 BL-MT200
Recommended disc brake rotor		SM-RT30* SM-RT54* SM-RT56*	SM-RT30* SM-RT54* SM-RT56*	SM-RT10* SM-RT26*	SM-RT10* SM-RT26*
Compatible brake rotor size	140 mm (SS)	-	-	-	-
	160 mm (S)	✓	✓	✓	✓
	180 mm (M)	✓	✓	✓	✓
	203 mm (L)	✓	-	-	-
	220 mm (LL)	-	-	-	-
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	✓	✓
Mount type		Post-type	Post-type	Post-type	Flat mount
Piston		2	2	2	2
Piston material		Resin	Resin	Resin	Resin
Caliper	MONO-BODY	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel
	Tool size	5 mm	5 mm	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	Snap ring, bolt fix pin
Pad mount		Split pin Stainless Steel	Split pin	Split pin	Split pin
Average weight (g)		-	-	-	-
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)		-	-	-	-
Note		* Only compatible with resin pad	* Only compatible with resin pad	* Only compatible with resin pad	* Only compatible with resin pad

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Brake (Mechanical Disc Brake)

Series		SHIMANO	TOURNEY TX
Model no.		BR-M375	BR-TX805
Color	1	Black	Black
	2	-	-
	3	-	-
Brake type		Mechanical disc brake	Mechanical disc brake
ICE TECHNOLOGIES pad compatible caliper		-	-
Pad	Standard 1	B03S Resin	B03S Resin
	Standard 2	-	-
	Option 1	-	-
	Option 2	-	-
Recommended 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 (available for international standard mount with mount adapter)		Post-type	Post-type
Piston		1	1
Piston material		-	-
Caliper	MONO-BODY	-	-
	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel
	Tool size	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring
Pad mount		Split pin	Split pin
Average weight (g)		-	-
Note			

Brake (V-BRAKE)

Series		DXR
Model no.		BR-MX70
Color	1	Series color
	2	-
	3	-
Brake type		V-BRAKE
Brake shoe	Standard 1	S70C
	Standard 2	-
	Option 1	M70T4
	Option 2	M70T3
Cartridge shoe holder		✓
Arch size (mm)		103
Spacer type	X type	✓
	Y type	✓
Compatible lead pipe angle (deg.)		45/90/135
Sleeve & bushing axle		✓
V-arm/caliper	Material	Aluminum
	Finish	Anodized
	Light weight link	✓
Cover	Material	Aluminum
	Finish	Anodized
Fixing screw length (mm)	16	✓
	25	✓
Fixing screw	Material	Stainless steel
	Finish	Plated
	Chamfered screw	✓
POWER MODULATOR		✓ (option SM-PM70)
Linear spring		✓
Stainless cable fixing screw		✓
Average weight (g)		184
Note		

Crankset

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		FC-M9100-2	FC-M9120-B2	FC-M9100-1	FC-M9120-1	FC-M9125-1	FC-M9130-1
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12 (Front double)	12 (Front double)	12	12	12	12
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
Chain line (mm)		48.8	51.8	52	52	55	56.5
O.L.D. Thru (mm)		142	148	142, 148	142, 148	148	157
O.L.D. QR/Nut (mm)		135	141	135, 141	135, 141	-	-
P.C.D. (mm)		Direct	Direct	Direct	Direct	Direct	Direct
Spider/gear arms		4	4	4	4	4	4
Chaining combination		38-28T	38-28T	30T, 32T, 34T, 36T, 38T	30T, 32T, 34T, 36T, 38T	32T, 34T	30T, 32T, 34T
Q-factor (mm)		162	168	162	168	174	171
Crank arm length (mm)	165	✓	✓	✓	✓	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
Optional chain guard	180	-	-	-	-	-	-
	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
Without chain/bash guard		✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	✓	✓	✓	✓
2-PIECE CRANKSET		-	-	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
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	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	Aluminum	-	-	-	-
	Finish	Plated	Plated	-	-	-	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing screw	Material	Aluminum	Aluminum	-	-	-	-
	Finish	Anodized	Anodized	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		597	616	551 (38T) 543 (36T) 544 (34T) 531 (32T) 528 (30T)	569 (38T) 561 (36T) 562 (34T) 548 (32T) 545 (30T)	587 (34T) 573 (32T)	577 (34T) 563 (32T) 560 (30T)
Note		-	-	-	-	-	-

SL

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CI-DECK

SC

Crankset

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX
Model no.		FC-M8100-2	FC-M8120-B2	FC-M8100-1	FC-M8120-1	FC-M8130-1	FC-M7100-2
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12 (Front double)	12 (Front double)	12	12	12	12 (Front double)
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
Chain line (mm)		48.8	51.8	52	55	56.5	48.8
O.L.D. Thru (mm)		142	148	142, 148	148	157	142
O.L.D. QR/Nut (mm)		135	141	135, 141	141	-	135
P.C.D. (mm)		Direct	Direct	Direct	Direct	Direct	Direct
Spider/gear arms		4	4	4	4	4	4
Chaining combination		36-26T	36-26T	28T, 30T, 32T, 34T, 36T	28T, 30T, 32T, 34T, 36T	28T, 30T, 32T, 34T	36-26T
Q-factor (mm)		172	178	172	178	181	172
Crank arm length (mm)	165	✓	✓	✓	✓	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
Optional chain guard	180	✓	✓	✓	✓	✓	-
	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
Without chain/bash guard		✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	✓	✓	✓	✓
2-PIECE CRANKSET		-	-	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-MT800	BB-MT800	BB-MT800	BB-MT800	BB-MT800	BB-MT800
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
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	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Steel (teeth), CFRP (body), Aluminum (arm)	Steel (teeth), CFRP (body), Aluminum (arm)	Steel (teeth), CFRP (body), Aluminum (arm)	Aluminum
	Finish	Anodized	Anodized	Painted (teeth), Anodized (arm)	Painted (teeth), Anodized (arm)	Painted (teeth), Anodized (arm)	Painted
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Steel	Steel	-	-	-	Steel
	Finish	Painted	Painted	-	-	-	Painted
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing screw	Material	Aluminum	Aluminum	-	-	-	Aluminum
	Finish	Anodized	Anodized	-	-	-	Anodized
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		650	662	651 (36T) 633 (34T) 620 (32T) 622 (30T) 608 (28T)	660 (36T) 642 (34T) 628 (32T) 630 (30T) 616 (28T)	668 (36T) 650 (34T) 636 (32T) 639 (30T) 624 (28T)	673
Note							

Crankset

Series		SLX	SLX	SLX	SLX	DEORE	DEORE
Model no.		FC-M7120-B2	FC-M7100-1	FC-M7120-1	FC-M7130-1	FC-M6100-1	FC-M6120-1
Color	1	Series color	Series color	Series color	Series color	Series Color	Series Color
	2	-	-	-	-	-	-
Rear speeds		12 (Front double)	12	12	12	12	12
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
Chain line (mm)		51.8	52	55	56.5	52	55
O.L.D. Thru (mm)		148	142, 148	148	157	142, 148	148
O.L.D. QR/Nut (mm)		141	135, 141	141	-	135, 141	141
P.C.D. (mm)		Direct	Direct	Direct	Direct	Direct	Direct
Spider/gear arms		4	4	4	4	4	4
Chaining combination		36-26T	30T, 32T, 34T	30T, 32T, 34T	30T, 32T, 34T	30T, 32T	30T, 32T
Q-factor (mm)		178	172	178	181	172	178
Crank arm length (mm)	165	✓	✓	✓	✓	✓ (NEW)	✓ (NEW)
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	✓	✓	✓	✓
2-PIECE CRANKSET		-	-	-	-	✓	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-MT800	BB-MT800	BB-MT800	BB-MT800	SM-BB52	SM-BB52
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
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	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Steel (teeth), GFRP (body), Aluminum(arm)	Steel (teeth), GFRP (body), Aluminum(arm)	Steel (teeth), GFRP (body), Aluminum(arm)	Steel (teeth), GFRP (body), Aluminum(arm)	Steel (teeth), GFRP (body), Aluminum(arm)
	Finish	Painted	Painted (teeth), Painted (arm)	Painted (teeth), Painted (arm)	Painted (teeth), Painted (arm)	Painted (teeth), Painted (arm)	Painted (teeth), Painted (arm)
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Steel	-	-	-	-	-
	Finish	Painted	-	-	-	-	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing screw	Material	Stainless steel	-	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		684	646 (34T) 631 (32T) 634 (30T)	653 (34T) 638 (32T) 641 (30T)	662 (34T) 647 (32T) 650 (30T)	-	-
Note							

SL

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CI-DECK

SC

Crankset

Series		DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-M6130-1	FC-MT610-2	FC-MT610-B2	FC-MT510-1	FC-MT511-1	FC-MT512-1
Color	1	Series Color	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
Rear speeds		12	12	12	12	12	12
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
Chain line (mm)		56.5	48.8	51.8	52	52	55
O.L.D. Thru (mm)		157	142	148	142, 148	142, 148	148
O.L.D. QR/Nut (mm)		-	135	141	135, 141	135, 141	141
P.C.D. (mm)		Direct	Direct	Direct	96	96	96
Spider/gear arms		4	4	4	4	4	4
Chaining combination		30T, 32T	36-26T	36-26T	30T, 32T, 34T	30T, 32T	30T, 32T
Q-factor (mm)		181	172.9	178.9	177	178.5	178.5
Crank arm length (mm)	165	✓ (NEW)	-	-	-	✓ (NEW)	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		✓	✓	✓	✓	✓	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	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	-	Painted	Painted	Painted	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Steel (teeth), GFRP (body), Aluminum (arm)	Aluminum	Aluminum	Steel (30T, 32T) Steel + GF composite (34T)	Steel	Steel
	Finish	Painted (teeth), Painted (arm)	Painted	Painted	Painted (30T, 32T) Plated (34T, teeth)	Painted	Painted
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	-	Steel	Steel	-	-	-
	Finish	-	Painted	Painted	-	-	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Inner ring fixing screw	Material	-	Stainless steel	Stainless steel	-	-	-
	Finish	-	Painted	Painted	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		-	-	-	-	-	-
Note		-	-	-	-	-	-

Crankset

Series		XTR	XTR	DEORE XT	DEORE XT	DEORE	DEORE
Model no.		FC-M9020-B1	FC-M9020-B2	FC-M8000-B1	FC-M8000-B2	FC-M5100-1	FC-M5100-2
Color	1	Series color	Series color	Series color	Series color	Series Color	Series Color
	2	-	-	-	-	-	-
Rear speeds		11	11	11	11	11 / 10	11
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11 11-speed HG-X 10-speed	HG-X11 11-speed
Chain line (mm)		53.4	51.8	53.4	51.8	52	48.8
O.L.D. Thru (mm)		148	148	148	148	142, 148	142
O.L.D. QR/Nut (mm)		141	141	141	141	135, 141	135
P.C.D. (mm)		96	96/64	96	96/64	96	96/64
Spider/gear arms		4	4	4	4	4	4
Chaining combination		32T, 30T	36-26T 34-24T	32T, 30T (SM- CRM81)	36-26T 34-24T	30T, 32T	36-26T
Q-factor (mm)		174	174	176	176	178.5	178.5
Crank arm length (mm)	165	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	✓ (32T) - (30T)	✓ (36-26T) - (34-24T)	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	✓	✓	-	-
2-PIECE CRANKSET		-	-	-	-	✓	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	✓	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB93	SM-BB93	BB-MT800	BB-MT800	SM-BB52	SM-BB52
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	SM-BB94-41A	SM-BB94-41A	BB-MT800-PA	BB-MT800-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	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	-	Anodized	Painted	Painted	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Ti + Aluminum	Steel +CF composite	Aluminum +CF composite	Steel	Steel
	Finish	Anodized	-	Plated (teeth), Painted (body)	Plated (teeth), Painted (body)	Painted	Painted
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	-	Aluminum	-	Aluminum	-	Steel
	Finish	-	Plated	-	Plated	-	Painted
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Stainless steel	Stainless steel
	Finish	-	Anodized	Anodized	Anodized	Painted	Painted
Inner ring fixing screw	Material	-	Aluminum	-	Stainless steel	-	Stainless steel
	Finish	-	Anodized	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		601 (32T) 593 (30T)	664 (36-26T) 645 (34-24T)	698.0 (36T)	721.6 (36-26T)	-	-
Note		- 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.		- 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.		- 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.	

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Crankset

Series		DEORE	SHIMANO	SHIMANO	SAINT	SAINT	DEORE XT
Model no.		FC-M5100-B2	FC-MT700-B2	FC-MT600-2	FC-M820	FC-M825	FC-M785
Color	1	Series Color	Black	Black	Series color	Series color	Black
	2	-	-	-	-	-	Silver
Rear speeds		11	11	11	10	10	10
Compatible chain		HG-X11 11-speed	HG-X11	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Chain line (mm)		51.8	51.8	48.8	50.4	57.9	48.8
O.L.D. Thru (mm)		148	148	142	142	150, 157	142
O.L.D. QR/Nut (mm)		141	141	135	135	-	135
P.C.D. (mm)		96/64	96/64	96/64	104	104	104/64
Spider/gear arms		4	4	4	4	4	4
Chaining combination		36-26T	36-26T 34-24T	36-26T	38T, 36T, 34T (SM-CR82)	38T, 36T, 34T (SM-CR82)	40-28T 38-26T 38-24T
Q-factor (mm)		178.5	175	177	178	193	175
Crank arm length (mm)	165	-	-	-	✓	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	✓
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	✓	-	✓	✓	✓
2-PIECE CRANKSET		✓	-	✓	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB52	BB-MT800	BB-MT800	SM-BB80	SM-BB80	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	BB-MT500-PA	BB-MT800-PA	BB-MT800-PA	SM-BB71-41A	SM-BB71-41C	SM-BB71-41A
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	-	✓
	73	✓	✓	✓	✓	-	✓
	83	-	-	-	-	✓	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	Painted	Painted	Painted	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Steel	Aluminum +GF composite	Aluminum +GF composite	-	-	Aluminum
	Finish	Painted	Plated (teeth)	Anodized	-	-	Anodized
Middle ring	Material	-	-	-	Aluminum	Aluminum	-
	Finish	-	-	-	Anodized	Anodized	-
Inner ring	Material	Steel	Aluminum	Steel	-	-	Aluminum
	Finish	Painted	Plated	Painted	-	-	Plated
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Aluminum	Aluminum	Aluminum
	Finish	Painted	-	-	Anodized	Anodized	Anodized
Inner ring fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	-	-	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		-	738.9 (36-26T) 712.4 (34-24T)	-	847 (38T) 837 (36T) 827 (34T)	858 (38T) 849 (36T) 838 (34T)	727.6 (40-28T) 717.6 (38-26T) 715.8 (38-24T)
Note						For 83 mm bottom bracket shell width	

Crankset

Series		ZEE	ZEE	DEORE	DEORE	DEORE	DEORE
Model no.		FC-M640	FC-M645	FC-M6000-2	FC-M4100-2	FC-M4100-B2	FC-M617
Color	1	Series color	Series color	Series Black	Series Color	Series Color	Black
	2	-	-	-	-	-	Silver
Rear speeds		10	10	10	10	10	10
Compatible 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
Chain line (mm)		50.4	57.9	48.8	48.8	51.8	48.8
O.L.D. Thru (mm)		142	150, 157	142	142	148	142
O.L.D. QR/Nut (mm)		135	-	135	135	141	135
P.C.D. (mm)		104	104	96/64	96/64	96/64	104/64
Spider/gear arms		4	4	4	4	4	4
Chaining combination		38T, 36T, 34T (FC-M640/M645 chaining)	38T, 36T, 34T (FC-M640/M645 chaining)	38-28T 36-26T 34-24T	36-26T	36-26T	38-24T 36-22T
Q-factor (mm)		174.7	189.7	176	178.5	178.5	176
Crank arm length (mm)	165	✓	✓	-	-	-	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	✓	-	-	-
2-PIECE CRANKSET		✓	✓	-	✓	✓	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52
	Threaded (E-type)	SM-BB52	SM-BB52	-	-	-	SM-BB52
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	SM-BB71-41A	SM-BB71-41C	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	-	✓	✓	✓	✓
	73	✓	-	✓	✓	✓	✓
	83	-	✓	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	Aluminum	-	-	Aluminum
	Finish	-	-	Painted	-	-	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	-	-	Aluminum +GF composite	Steel	Steel	Aluminum
	Finish	-	-	Anodized	Painted	Painted	Anodized
Middle ring	Material	Aluminum	Aluminum	-	-	-	-
	Finish	Anodized	Anodized	-	-	-	-
Inner ring	Material	-	-	Steel	Steel	Steel	Steel
	Finish	-	-	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	Painted	Painted	Painted	-
Inner ring fixing screw	Material	-	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		828 (38T) 817 (36T) 807 (34T)	858 (38T) 847 (36T) 837 (34T)	-	-	-	-
Note			For 83 mm bottom bracket shell width				

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Crankset

Series		DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-M617-B2	FC-MT500-2	FC-MT500-3	FC-M627-B	FC-MT210-3	FC-MT210-2
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	-	-	-	-	-
Rear speeds		10	10	10	10	9	9
Compatible chain		HG-X	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
Chain line (mm)		51.8	48.8	50	51.8	50	48.8
O.L.D. Thru (mm)		148	142	142	148	142	142
O.L.D. QR/Nut (mm)		141	135	135	141	135	135
P.C.D. (mm)		104/64	96/64	96/64	104/64	Riveted	Riveted
Spider/gear arms		4	4	4	4	4	4
Chaining combination		36-22T	36-26T	40-30-22T	36-22T	44-32-22T 40-30-22T	46-30T 36-22T
Q-factor (mm)		176	177	177	176	176	176
Crank arm length (mm)	165	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	✓	-	✓	✓ (46-30T) - (36-22T)
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		✓	✓	✓	✓	✓	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB52	SM-BB52	SM-BB52	SM-BB52	BB-MT500	BB-MT500
	Threaded (E-type)	SM-BB52	-	SM-BB52	SM-BB52	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Finish	Painted	Painted	Painted	Painted	-	-
Spider arm cover	Material	-	-	-	-	Resin	Resin
	Finish	-	-	-	-	Resin	Resin
Outer ring	Material	Aluminum	Aluminum +GF composite	Aluminum	Aluminum	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Middle ring	Material	-	-	Steel	-	Steel	-
	Finish	-	-	Plated	-	Painted	-
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel *	Stainless steel	-	-
	Finish	-	-	-	-	-	-
Inner ring fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	✓	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		-	-	-	-	-	-
Note				* 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 the special frame	SHIMANO logo	-

Crankset

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-MT210-B2	FC-MT200	FC-MT101-2	FC-MT101-B2	FC-MT101	FC-M371
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
Rear speeds		9	9	9	9	9	9
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG for 9-speed
Chain line (mm)		51.8	50	48.8	51.8	50	50
O.L.D. Thru (mm)		148	142	142	148	142	142
O.L.D. QR/Nut (mm)		141	135	135	141	135	135
P.C.D. (mm)		Riveted	Riveted	Riveted	Riveted	Riveted	Riveted
Spider/gear arms		4	4	4	4	4	4
Chaining combination		36-22T	40-30-22T	36-22T	36-22T	44-32-22T 40-30-22T	44-32-22T 48-36-26T
Q-factor (mm)		176	176	179.4	179.4	179.2	180.5
Crank arm length (mm)	165	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	✓	-	-	✓	✓
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		✓	✓	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	-	-	-	-
	OCTALINK	-	-	-	-	-	-
	Square	-	-	✓	✓	✓	✓
Recommended bottom bracket	Threaded (normal)	BB-MT500	BB-MT500	BB-UN101	BB-UN101	BB-UN101	BB-UN300
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	BB-UN300-K
	Press-Fit	BB-MT500-PA	BB-MT500-PA	-	-	-	-
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	LL123	LL123	LL123	LL123
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	LL123-K
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	-	-	-	-
	Finish	Plated	Plated	-	-	-	-
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	Resin	-	Resin	Resin	Resin	Resin
	Finish	Resin	-	Resin	Resin	Resin	Resin
Outer ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Middle ring	Material	-	Steel	-	-	Steel	Steel
	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	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring fixing screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓ (Option)	✓
Average weight (g) (175 mm, w/o bottom bracket)		-	-	-	-	-	-
Note		Chain line 3 mm outboard	SHIMANO logo	SHIMANO logo	SHIMANO logo Chain line 3 mm outboard	SHIMANO logo	SHIMANO logo

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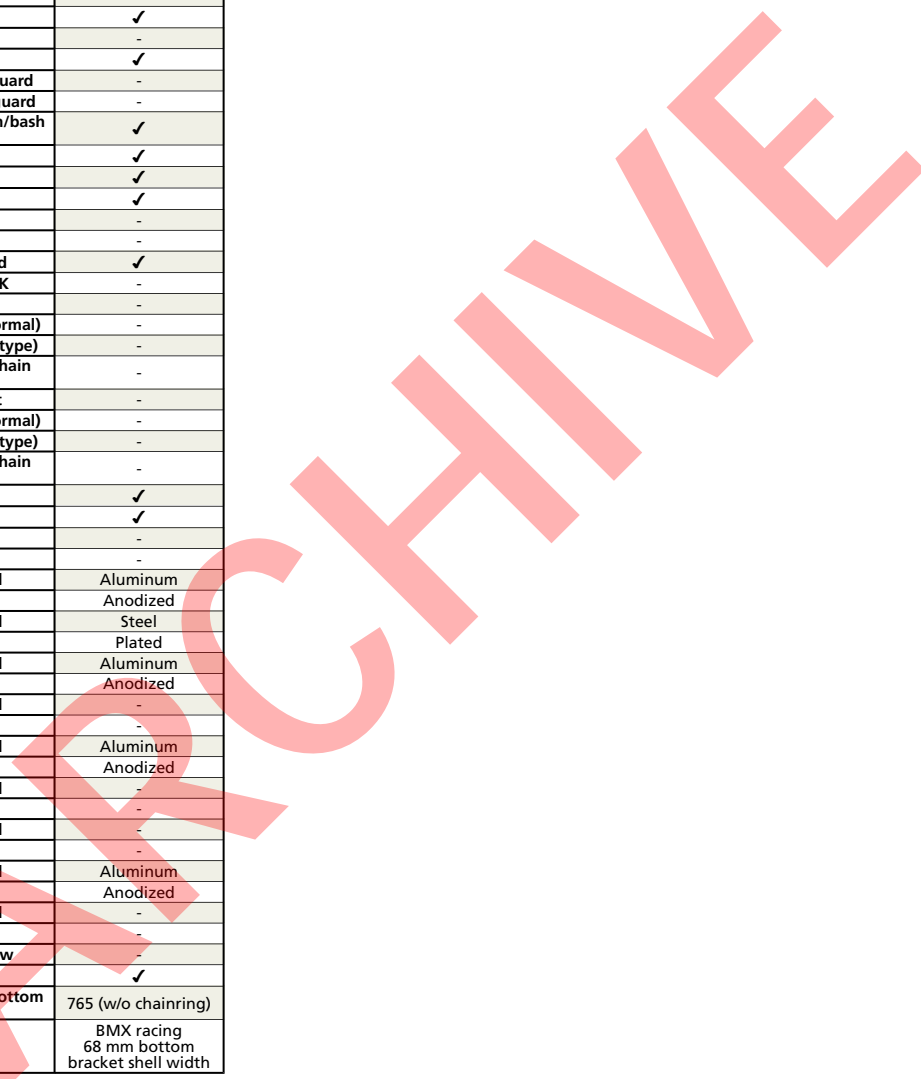
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Crankset

Series		SHIMANO	SHIMANO	TOURNEY TX	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-M315-2	FC-M315-B2	FC-TX801	FC-TY501-2	FC-TY501	FC-TY301
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	Silver	-	Silver	-
Rear speeds		8/7	8/7	8/7/6	8/7	8/7/6	8/7/6
Compatible chain		HG 8/7-speed	HG 8/7-speed	HG for 8/7-speed	HG 8/7-speed	HG/UG for 8/7/6-speed	HG/UG for 8/7/6-speed
Chain line (mm)		48.8	51.8	50	48.8	47.5/47.5 + t/50	47.5/47.5 + t/50
O.L.D. Thru (mm)		142	148	142	142	142	142
O.L.D. QR/Nut (mm)		135	141	135	135	135	135
P.C.D. (mm)		Riveted	Riveted	Riveted	Riveted	Riveted	Riveted
Spider/gear arms		4	4	4	4	4	4
Chaining combination		36-22T	36-22T	48-38-28T 42-32-22T	46-30T	48-38-28T 42-34-24T	48-38-28T 42-34-24T
Q-factor (mm)		179.4	179.4	187.9	185.5	185.5	181.5
Crank arm length (mm)	165	-	-	✓	-	✓	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	✓	✓	✓ (integrated type)	✓ (integrated type)
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		-	-	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	-	-	-	-	-	-
	OCTALINK	-	-	-	-	-	-
	Square	✓	✓	✓	✓	✓	✓
Recommended bottom bracket	Threaded (normal)	BB-UN101	BB-UN101	BB-UN101	BB-UN101	BB-UN101, BB-UN300	BB-UN101, BB-UN300
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	BB-UN101-K	-	BB-UN101-K, BB-UN300K	BB-UN101-K, BB-UN300K
	Press-Fit	-	-	-	-	-	-
Axle length of BB-UN/E5 (mm)	Threaded (normal)	LL123	LL123	LL123	LL123	D-NL, *D-EL	D-NL, *D-EL
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	LL123-K	-	D-NL K	D-NL K
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	✓	-	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	Resin	Resin	Resin	Resin	- (black) Painted (silver)	-
Outer ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Middle ring	Material	-	-	Steel	-	Steel	Steel
	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	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring fixing screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓ (Option)	-
Average weight (g) (175 mm, w/o bottom bracket)		-	-	-	-	-	-
Note		SHIMANO logo	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

Crankset

Series		DXR
Model no.		FC-MX71
Color	1	Series color
	2	-
Rear speeds		1
Compatible chain		Single speed
Chain line (mm)		44
O.L.D. Thru (mm)		142
O.L.D. QR/Nut (mm)		135
P.C.D. (mm)		104/64
Spider/gear arms		4
Chaining combination		34T, 38T, 41T, 42T, 43T, 44T, 46T
Q-factor (mm)		173
Crank arm length (mm)	165	✓
	167.5	-
	170	✓
	172.5	-
	175	✓
	177.5	-
Optional chain guard	180	✓
	With bash guard	-
	With chain guard	-
Without chain/bash guard		✓
HOLLOWTECH II		✓
2-PIECE CRANKSET		✓
HOLLOWTECH crank arm		✓
OCTALINK		-
HOLLOWGLIDE		-
Compatible bottom bracket type	Outboard	✓
	OCTALINK	-
	Square	-
Recommended bottom bracket	Threaded (normal)	-
	Threaded (E-type)	-
	Threaded (chain case)	-
	Press-Fit	-
Axle length of BB-UN/ES (mm)	Threaded (normal)	-
	Threaded (E-type)	-
	Threaded (chain case)	-
Threaded bottom bracket shell width (mm)	68	✓
	73	✓
	83	-
Chain case compatible		-
Crank arm	Material	Aluminum
	Finish	Anodized
Crank axle	Material	Steel
	Finish	Plated
Spider arm	Material	Aluminum
	Finish	Anodized
Spider arm cover	Material	-
	Finish	-
Outer ring	Material	Aluminum
	Finish	Anodized
Middle ring	Material	-
	Finish	-
Inner ring	Material	-
	Finish	-
Outer/middle ring fixing bolt	Material	Aluminum
	Finish	Anodized
Inner ring fixing screw	Material	-
	Finish	-
Stainless chain guard fixing screw		-
Crank fixing screw included		✓
Average weight (g) (175 mm, w/o bottom bracket)		765 (w/o chaining)
Note		BMX racing 68 mm bottom bracket shell width



- SL
- SLMT
- SMSL
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- RD
- FD
- BR
- BR
- BR
- FC**
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK
- SC

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 (deg.)	63 - 75	63 - 75	63 - 75	-
Back plate	Resin	Resin	Aluminum	Aluminum
Chainguide	Resin	Resin	Resin	Aluminum
Average weight (g)	28	25	33	-
Note				

ARCHIVE

Chainring

Series		XTR	DEORE XT	SLX	DEORE XT	SLX	SHIMANO
Model no.		SM-CRM95	SM-CRM85	SM-CRM75	SM-CRM81	SM-CRM70	SM-CR82
Color	1	Standard	Standard	Standard	Standard	Standard	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Gear speed		1	1	1	1	1	1
Rear speed	12-speed	✓	✓	✓	-	-	-
	11-speed	-	-	-	✓	✓	-
	10-speed	-	-	-	-	-	✓
	9-speed	-	-	-	-	-	-
	Single	-	-	-	-	-	-
DYNAMIC CHAIN ENGAGEMENT+		✓	✓	✓	✓	✓	-
Chainring teeth	46T	-	-	-	-	-	-
	44T	-	-	-	-	-	-
	43T	-	-	-	-	-	-
	42T	-	-	-	-	-	-
	41T	-	-	-	-	-	-
	40T	-	-	-	-	-	-
	38T	✓	-	-	-	-	✓
	36T	✓	✓	-	-	-	✓
	34T	✓	✓	✓	✓	✓	✓
	32T	✓	✓	✓	✓	✓	-
	30T	✓	✓	✓	✓	✓	-
28T	-	✓	-	-	-	-	
Chain guard type	Double	-	-	-	-	-	-
	Single	-	-	-	-	-	-
	w/o Chain guard	✓	✓	✓	✓	✓	✓*
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
Note							* SM-CD50 bash guard is compatible

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Chainring

Series		SHIMANO
Model no.		SM-CR80-A
Color	1	Black
	2	-
	3	-
Gear speed		1
Rear speed	12-speed	-
	11-speed	-
	10-speed	-
	9-speed	✓
	Single	✓
DYNAMIC CHAIN ENGAGEMENT+		-
Chainring teeth	46T	✓
	44T	✓
	43T	✓
	42T	✓
	41T	✓
	40T	-
	38T	✓
	36T	-
	34T	✓
	32T	-
	30T	-
	28T	-
Chain guard type	Double	-
	Single	-
	w/o Chain guard	✓
P.C.D. (mm)		104
Chainring	Material	Aluminum
	Finish	Anodized
Note		

ARCHIVE

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	BB-MT800-P
HOLLOWTECH II bottom bracket	Threaded bottom bracket type	✓	-	✓	-	✓	-
	Press-Fit type	-	✓	-	✓	-	✓
Threaded bottom bracket shell width (mm)	68	✓	-	✓	-	✓	-
	73	✓	-	✓	-	✓	-
	83	-	-	✓	-	-	-
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			

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		BB-MT500	BB-MT500-P	SM-BB52
HOLLOWTECH II bottom bracket	Threaded bottom bracket type	✓	-	✓
	Press-Fit type	-	✓	-
Threaded bottom bracket shell width (mm)	68	✓	-	✓
	73	✓	-	✓
	83	-	-	-
Press-Fit bottom bracket shell width (mm)	84.5	-	-	-
	89.5	-	✓ (BB-MT500-PA)	-
	92	-	✓ (BB-MT500-PA)	-
	104.5	-	-	-
	107	-	-	-
Small ball bearing		-	-	-
Adapter	Material	Aluminum	Resin	Aluminum
	Finish	Anodized	-	Painted
Spacer	Material	Resin	Resin	Resin
	Finish	-	-	-
Average weight (g)		-	-	-
Note				

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Bottom Bracket

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		BB-ES300	BB-ES300-E	BB-ES300-K	BB-ES51	BB-ES51-E	BB-ES51-K	
Structure	Standard	✓	-	-	✓	-	-	
	E-type	-	✓	-	-	✓	-	
	For chain case	-	-	✓	-	-	✓	
Spindle	Hollow pipe	✓	✓	✓	✓	✓	✓	
	OCTALINK	✓	✓	✓	✓	✓	✓	
	Square type	-	-	-	-	-	-	
Axle length/shell width (mm)	107	68 (BC1.37)	-	-	-	-	-	
		70 (M36)	-	-	-	-	-	
		73 (BC1.37)	-	-	-	-	-	
	MM110	68 (BC1.37)	-	-	-	-	-	
		70 (M36)	-	-	-	-	-	
		73 (BC1.37)	-	-	-	-	-	
	LL113	68 (BC1.37)	-	-	-	-	-	
		70 (M36)	-	-	-	-	-	
		73 (BC1.37)	-	-	-	-	-	
	113	68 (BC1.37)	✓	✓	-	✓ (for double)	-	-
		70 (M36)	✓	-	-	✓ (for double)	-	-
		73 (BC1.37)	✓	-	-	✓	-	-
	D-H	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
	YL117	68 (BC1.37)	-	-	-	-	-	
	117.5	68 (BC1.37)	-	-	-	-	-	
	118	68 (BC1.37)	✓	✓	-	✓	-	-
		70 (M36)	✓	-	-	-	-	-
		73 (BC1.37)	✓	-	-	✓	-	-
	XL118	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 mm	-	-	-	-	-	-
	121	68 (BC1.37)	✓	✓	✓	✓ (for triple)	-	-
		70 (M36)	-	-	-	✓	-	-
		73 (BC1.37)	✓	✓	-	-	-	-
	126	68 (BC1.37)	✓	✓	✓*	✓	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	✓	✓	-	-	-	-
	D-NL 122	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
73 (BC1.37)		-	-	-	-	-	-	
D-EL 127	68 (BC1.37)	-	-	-	-	-	-	
	70 (M36)	-	-	-	-	-	-	
	73 (BC1.37)	-	-	-	-	-	-	
LL123	68 (BC1.37)	-	-	-	-	-	-	
	70 (M36)	-	-	-	-	-	-	
	73 (BC1.37)	-	-	-	-	-	-	
123SP	68 (BC1.37)	-	-	-	-	-		
130	68 (BC1.37)	-	-	-	-	-		
Spindle	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Bonderlube	Bonderlube	Bonderlube	Plated	Painted (Black)	Painted (Black)	
Left hand adapter	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Finish	-	-	-	-	-	-	
Right hand adapter/shell	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Phosphate coated	Phosphate coated	Phosphate coated	Nickel Chrome	Nickel Chrome	Nickel Chrome	
Note				* w/ 0.7 mm spacer				

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	
Structure	Standard	-	✓	-	-	✓	-	
	E-type	-	-	-	✓	-	-	
	For chain case	✓	-	✓	-	-	✓	
Spindle	Hollow pipe	✓	-	-	-	-	-	
	OCTALINK	✓	-	-	-	-	-	
	Square type	-	✓	✓	✓	✓	✓	
Axle length/shell width (mm)	107	68 (BC1.37)	-	✓	-	-	-	
		70 (M36)	-	-	-	-	-	
		73 (BC1.37)	-	-	-	-	-	
	MM110	68 (BC1.37)	-	✓ **	✓	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	LL113	68 (BC1.37)	-	✓ **	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	✓	-	-	-	-
	113	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	D-H	68 (BC1.37)	-	✓ *	-	-	-	-
		70 (M36)	-	-	-	-	-	-
	YL117	68 (BC1.37)	-	-	-	-	-	-
	117.5	68 (BC1.37)	-	✓ **	✓	-	-	-
	118	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	XL118	68 (BC1.37)	-	✓ **	✓ *	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 mm	-	✓	-	-	-	-
	121	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	126	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	D-NL 122	68 (BC1.37)	-	✓ **	✓ **	-	✓ *	✓ *
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	✓ *	-	-	-	-
	D-EL 127	68 (BC1.37)	-	✓ *	✓	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	LL123	68 (BC1.37)	-	✓	✓ ***	✓	✓	✓ **
		70 (M36)	-	-	-	-	-	-
73 (BC1.37)		-	✓	-	-	✓	-	
123SP	68 (BC1.37)	-	-	-	-	-	-	
130	68 (BC1.37)	-	-	-	-	-	-	
Spindle	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted (Black)	Bonderlube	Bonderlube	Bonderlube	-	-	
Left hand adapter	Material	Resin	Aluminum	Aluminum	Aluminum	Resin	Resin	
	Finish	-	-	-	-	-	-	
Right hand adapter/shell	Material	Steel	Aluminum, Steel	Aluminum, Steel	Aluminum, Steel	Resin, Steel	Resin, Steel	
	Finish	Nickel Chrome	-	-	-	-	-	
Note		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/ 0.7mm spacer	-	* w/ Crank arm fixing bolts spec. is available	* w/ Crank arm fixing bolts spec. is available ** w/ 0.7 mm spacer	

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Cassette Sprocket

Series		XTR	DEORE XT	SLX
Model no.		CS-M9101-12	CS-M8100-12	CS-M7100-12
Type		HYPERGLIDE+	HYPERGLIDE+	HYPERGLIDE+
Rear speeds		12	12	12
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed
Combination name (Group name)		10-45T 10-51T	10-45T 10-51T	10-45T 10-51T
Combination * Titanium gear	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
	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
	3	-	-	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	✓	✓	✓
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 11-speed)	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	1	1	1
	Finish	Anodized	Painted	Painted
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	5	-	-
	Finish	Shot	-	-
Aluminum gear	QTY (pcs)	3	2	1
	Finish	Painted	Anodized	Anodized
Steel gear	QTY (pcs)	4	10	11
	Finish	Plated	Plated	Plated
Lock ring	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Average weight (g)		357 (10-45T) 367 (10-51T)	461 (10-45T) 470 (10-51T)	513 (10-45T) 534 (10-51T)
Note		-	-	-

Series		DEORE	DEORE XT	SLX
Model no.		CS-M6100-12	CS-M8000	CS-M7000-11
Type		HYPERGLIDE+	HG	HG
Rear speeds		12	11	11
Compatible chain		HG 12-speed	HG 11-speed, LG	HG 11-speed, LG
Combination name (Group name)		10-51T	11-40T (bs) 11-42T (bt) 11-46T (bu)	11-40T (bs) 11-42T (bt) 11-46T (bu)
Combination * Titanium gear	1	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)	11-13-15-17-19-21-24-27-31-35-40**T (bs)
	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)
	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)
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	✓	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 11-speed)	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-	✓	✓
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	1	2	1
	Finish	Painted	Anodized	Anodized
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	2	1 (11-40T) 1 (11-42T) 2 (11-46T)
	Finish	-	-	-
Steel gear	QTY (pcs)	12	9	10 (11-40T) 10 (11-42T) 9 (11-46T)
	Finish	Plated	Shot-Ni	Shot-Ni
Lock ring	Material	Steel	Aluminum	Steel
	Finish	Plated	Anodized	Plated
Average weight (g)		-	411 (11-40T) 434 (11-42T) 437 (11-46T)	450 (11-40T) 476 (11-42T) 482 (11-46T)
Note		-	** Aluminum gear	** Aluminum gear

Cassette Sprocket

Series		DEORE	SHIMANO	DEORE XT
Model no.		CS-M5100-11	CS-LG600-11	CS-M771-10
Type		HG	LINKGLIDE	HG
Rear speeds		11	11	10
Compatible chain		HG 11-speed, LG	HG 11-speed, LG	HG-X 10-speed
Combination name (Group name)		11-42T 11-51T	11-50T	11-32T (bL) 11-34T (bJ) 11-36T (bK)
Combination * Titanium gear	1	11-13-15-17-19-21-24-28-32-37-42T	11-13-15-17-20-23-26-30-36-43-50T	11-12-14-16-18-20-22-25-28-32T (bL)
	2	11-13-15-18-21-24-28-33-39-45-51T	-	11-13-15-17-19-21-23-26-30-34T (bJ)
	3	-	-	11-13-15-17-19-21-24-28-32-36T (bK)
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 11-speed)	-	✓	-
	HG spline M (8/9/10-speed, MTB 11-speed)	✓	✓*	✓
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	1	-	2
	Finish	Painted	-	Anodized
Steel spider arm	QTY (pcs)	-	1	-
	Finish	-	Plated	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	Shot
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	11	11	10
	Finish	Plated	Nickel chrome cobalt black plated	Shot-Cr
Lock ring	Material	Steel	Steel	Aluminum
	Finish	Plated	Chrome plated	Anodized
Average weight (g)		-	-	294 (11-32T) 323 (11-34T) 343 (11-36T)
Note		-	* Follow compatibility chart	

Series		DEORE	SHIMANO	SHIMANO
Model no.		CS-M4100-10	CS-HG50-10	CS-LG600-10
Type		HG	HG	LINKGLIDE
Rear speeds		10	10	10
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG 11-speed, LG
Combination name (Group name)		11-42T 11-46T	11-36T (bK)	11-43T
Combination * Titanium gear	1	11-13-15-18-21-24-28-32-37-42T	11-13-15-17-19-21-24-28-32-36T (bK)	11-13-15-17-20-23-26-30-36-43T
	2	11-13-15-18-21-24-28-32-37-46T	-	-
	3	-	-	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 11-speed)	-	-	✓
	HG spline M (8/9/10-speed, MTB 11-speed)	✓	✓	✓
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel spider arm	QTY (pcs)	1	1	1
	Finish	Plated	Ni plated	Plated
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	10	10	10
	Finish	Plated	Ni plated	Nickel chrome cobalt black plated
Lock ring	Material	Steel	Steel	Steel
	Finish	Plated	Cr plated	Chrome plated
Average weight (g)		-	-	-
Note		-	-	-

Cassette Sprocket

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG400-9	CS-HG201-9	CS-HG200-9
Type		HG	HG	HG
Rear speeds		9	9	9
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed
Combination name (Group name)		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 * Titanium gear	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)
	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)
	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)
	4	12-14-16-18-21-24-28-32-36T (bh)	-	-
	5	11-13-15-17-20-23-26-30-36T (cb)	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 11-speed)	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	✓	✓	✓
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	9	9	9
	Finish	Ni-Ni plated	Ni-Ni plated (Top gear: Phosphate coated)	Phosphate coated
Lock ring	Material	Steel	Steel	Steel
	Finish	Ni-Ni plated	Phosphate coated	Phosphate coated
Average weight (g)		-	-	-
Note				

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG51-8	CS-HG41-8	CS-HG31-8
Type		HG	HG	HG
Rear speeds		8	8	8
Compatible chain		IG/HG	IG/HG	IG/HG
Combination name (Group name)		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 * Titanium gear	1	11-13-15-17-19-21-24-28T (bf)	11-13-15-17-20-23-26-30T (an)	11-13-15-17-20-23-26-30T (an)
	2	11-13-15-17-20-23-26-30T (an)	11-13-15-18-21-24-28-32T (aw)	11-13-15-18-21-24-28-32T (aw)
	3	11-13-15-18-21-24-28-32T (aw)	11-13-15-17-20-23-26-34T (ao)	11-13-15-17-20-23-26-34T (ao)
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 11-speed)	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	✓	✓	✓
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	8	8	8
	Finish	Chrome plated	Ni plated	Phosphate coated
Lock ring	Material	Steel	Steel	Steel
	Finish	Chrome plated	Phosphate coated	Phosphate coated
Average weight (g)		-	-	-
Note				

Cassette Sprocket

Series	SHIMANO		SHIMANO	
Model no.	CS-HG200-8		CS-HG41-7	
Type	HG		HG	
Rear speeds	8		7	
Compatible chain	HG 8-speed		IG/HG	
Combination name (Group name)	12-32T (br)		11-28T (ac)	
Combination * Titanium gear	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)
	2	-	-	12-14-16-18-21-26-32T (bp)
	3	-	-	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 11-speed)	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	✓	-	-
	HG spline S (7-speed)	-	✓	✓
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	8	7	7
	Finish	Phosphate coated	Ni plated	Phosphate coated
Lock ring	Material	Steel	Steel	Steel
	Finish	Painted	Phosphate coated	Painted
Average weight (g)	-		-	
Note	-		-	

Series	DXR	
Model no.	CS-MX66	
Type	Single sprocket for FH-MX70	
Rear speeds	Single	
Compatible chain	1/2 x 3/32 inch	
Combination name (Group name)	-	
Combination * Titanium gear	1	-
	2	-
	3	-
	4	-
	5	-
	6	-
	7	-
Spline type	MICRO SPLINE	-
	HG spline L2 (ROAD 12-speed dedicated)	-
	HG spline L (ROAD 11-speed)	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-
	HG spline S (7-speed)	-
Carbon spider arm	QTY (pcs)	-
	Finish	-
Aluminum spider arm	QTY (pcs)	-
	Finish	-
Steel spider arm	QTY (pcs)	-
	Finish	-
Titanium gear	QTY (pcs)	-
	Finish	-
Aluminum gear	QTY (pcs)	-
	Finish	-
Steel gear	QTY (pcs)	1
	Finish	Shot-Cr/Shot-Ni
Lock ring	Material	Steel
	Finish	Chrome plated
Average weight (g)	-	
Note	For BMX racing	

Multiple Freewheel

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		MF-TZ500-7	MF-TZ510-7	MF-TZ500-6
Type		HG/UG	HG/UG	HG/UG
Rear speeds		7-speed	7-speed	6-speed
Compatible chain		HG/UG	HG/UG	HG/UG
Combination name (Group name)		14-28T 14-34T	14-28T 14-34T	14-28T
Combination * Titanium gear	1	14-16-18-20-22-24-28T	14-16-18-20-22-24-28T	14-16-18-21-24-28T
	2	14-16-18-20-22-24-34T	14-16-18-20-22-24-34T	-
	3	-	-	-
	4	-	-	-
	5	-	-	-
Spider arm	QTY (pcs)	-	-	-
Spoke protector	w/ Spoke protector	✓	✓	✓
	w/o Spoke protector	✓	✓	✓
Aluminum lock ring		-	-	-
Finish		Brown & Black	Zn Plating & Black Coated	Brown & Black
Note				

Series		SHIMANO
Model no.		MF-TZ510-6
Type		HG/UG
Rear speeds		6-speed
Compatible chain		HG/UG
Combination name (Group name)		14-28T
Combination * Titanium gear	1	14-16-18-21-24-28T
	2	-
	3	-
	4	-
	5	-
Spider arm	QTY (pcs)	-
Spoke protector	w/ Spoke protector	✓
	w/o Spoke protector	✓
Aluminum lock ring		-
Finish		Zn Plating & Black Coated
Note		

Front Hub (Disc Brake)

Series		XTR	XTR	XTR	SAINT	DEORE XT	DEORE XT
Model no.		HB-M9110	HB-M9110-B	HB-M9110-B5	HB-M820	HB-M8110	HB-M8110-B
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
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
O.L.D. (mm)		100	110	110	110	100	110
Spoke hole	28H	✓	✓	✓	-	✓	✓
	32H	✓	✓	-	✓	✓	✓
	36H	-	-	-	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-	✓	-	-
	Without	✓	✓	✓	-	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		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 skewer length (mm)	129	-	-	-	-	-	-
	133	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	✓	-	-	-	✓	-
	110 x 15	-	✓	✓	-	-	✓
	110 x 20	-	-	-	✓	-	-
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 / right (mm)		44/44	44/44	45	52	44/44	44/44
Flange diameter left / right (mm)		52.8	52.8	51	59.6	52.8	52.8
Seal		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	-	-
Internal grease sleeve		-	-	-	-	✓	✓
Bearing	Stainless ball	✓	✓	✓	✓	✓	✓
	Cup	Grinded	Grinded	Grinded	CBN	Polish	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Finish	Anodized	Anodized	Anodized	Anodized	-	-
Average weight (g)		132	137	146	202	142	147
Note	-	-	-	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 office for more information	Axle is supplied with front fork.	-	-

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

SC

Front Hub (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX
Model no.		HB-M8110-B5	HB-M8000	HB-M8010	HB-M8010-B	HB-M756	HB-M7110
Color	1 Hub shell	Series color	Series color	Series color	Series color	Black	Series color
	1 Quick release	-	Series color	-	-	Black	-
	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
Spoke hole	28H	✓	-	-	-	-	✓
	32H	-	✓	✓	✓	✓	✓
	36H	-	-	✓	-	✓	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	-	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		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	-	-	-	-	-	-
	133	-	✓	-	-	✓	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	✓	-	-	✓
	110 x 15	✓	-	-	✓	-	-
	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 / right (mm)		45/45	44/41	44/44	44/44	61	44/44
Flange diameter left / right (mm)		51	52.8/51.4	52.8	52.8	70.6	52.8
Seal		-	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Internal grease sleeve		✓	✓	✓	✓	-	✓
Bearing	Stainless ball	✓	-	-	-	-	✓
	Cup	Polish	-	-	-	-	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	-	Anodized
Quick release lever	Material	-	Aluminum	-	-	Aluminum	-
	Finish	-	Anodized	-	-	Anodized	-
Quick release housing	Material	-	Aluminum	-	-	Aluminum	-
	Finish	-	Anodized	-	-	Anodized	-
Quick release nut	Material	-	Resin & Steel	-	-	Resin & Steel	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	Aluminum	Aluminum	-	-
	Finish	-	-	Anodized	Anodized	-	-
Average weight (g)		158	167	148	158	239	142
Note	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 office for more information		-	Axle is supplied with front fork.	-	Spoke hole 24H spec. available.	-

Front Hub (Disc Brake)

Series		SLX	DEORE	DEORE	SHIMANO	SHIMANO	SHIMANO
Model no.		HB-M7110-B	HB-M6000	HB-M6010	HB-MT410	HB-MT410-B	HB-M525A
Color	1 Hub shell	Series color	Series Black	Series Black	Black	Black	Black
	1 Quick release	-	Series Black	-	-	-	Black
	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	CENTER LOCK disc brake	6-bolt disc brake
O.L.D. (mm)		110	100	100	100	110	100
Spoke hole	28H	✓	-	-	✓	✓	-
	32H	✓	✓	✓	✓	✓	✓
	36H	-	✓	✓	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	-
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		15 mm E-THRU	Quick release	15 mm E-THRU	15 mm E-THRU	15 mm E-THRU	Quick release
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	-	✓	-	-	-	✓
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	✓	✓	-	-
	110 x 15	✓	-	-	-	✓	-
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		70.2	60.2	60.2	60.2	70.2	59.2
Offset (mm)		5.7	5.6	5.3	5.3	5.3	5.7
P.C.D. left / right (mm)		44/44	44	44	44/44	44/44	61/61
Flange diameter left / right (mm)		52.8	52.8	52.8	52.8	52.8	70.6
Seal		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Internal grease sleeve		✓	-	✓	-	-	-
Bearing	Stainless ball	✓	-	-	-	-	-
	Cup	Polish	-	-	-	-	-
	Cone	CBN	CBN	CBN	-	-	CBN
	Cartridge	-	-	-	✓	✓	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Anodized
Axle	Material	Aluminum	Steel	Aluminum	-	-	Steel
	Finish	Anodized	-	Anodized	-	-	-
Quick release lever	Material	-	Aluminum	-	-	-	Aluminum
	Finish	-	Anodized	-	-	-	Anodized
Quick release housing	Material	-	Aluminum	-	-	-	Aluminum
	Finish	-	Anodized	-	-	-	Anodized
Quick release nut	Material	-	Resin & Steel	-	-	-	Resin & Steel
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	Steel	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g)		147	-	-	-	-	-
Note		-	-	-	-	-	-

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

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Front Hub (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		HB-M475	HB-M4050	HB-M3050	HB-MT400	HB-MT400-B	HB-MT200
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	-	-	Black
	2 Hub shell	Silver	Silver	-	-	-	-
	2 Quick release	Silver	Silver	-	-	-	-
Brake type		6-bolt disc brake	CENTER LOCK 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	110	100
Spoke hole	28H	-	-	-	-	✓	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		Quick release	Quick release	Quick release	15 mm E-THRU	15 mm E-THRU	Quick release
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	✓	✓	✓	-	-	✓
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	-	✓	-	-
	110 x 15	-	-	-	-	✓	-
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		59.2	60.2	60.2	60.2	70.2	60.2
Offset (mm)		5.5	5.6	5.5	5.3	5.3	5.3
P.C.D. left / right (mm)		61/61	44/44	44/44	44/44	44/44	44/44
Flange diameter left / right (mm)		70.6	52.8	52.8	52.8	52.8	52.8 (32H/36H) 53.8 (28H)
Seal		Contact	Labyrinth & Contact	Contact	Labyrinth & Contact	Labyrinth & Contact	Contact
Internal grease sleeve		-	-	-	✓	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	-	-
	Cartridge	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Aluminum	Aluminum	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	Steel	Aluminum	Steel	-	-	Steel
	Finish	Plated	Painted	Plated	-	-	Plated
Quick release housing	Material	Steel	Steel	Steel	-	-	Steel
	Finish	Plated	Plated	Plated	-	-	Plated
Quick release nut	Material	Resin & Steel	Resin & Steel	Resin & Steel	-	-	Resin & Steel
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	Steel	Steel	-
	Finish	-	-	-	-	-	-
Average weight (g)		-	-	-	-	-	-
Note		-	-	-	-	-	-

Front Hub (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		HB-RM35	HB-TX505	HB-TX506
Color	1 Hub shell	Black	Black	Black
	1 Quick release	Black	Black	Black
	2 Hub shell	-	-	-
	2 Quick release	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake
O.L.D. (mm)		100	100	100
Spoke hole	28H	✓	✓	-
	32H	✓	✓	✓
	36H	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-
	Without	✓	✓	-
CENTER LOCK mount cover option		-	-	-
Axle fixing method		Quick release	Quick release	Quick release
Quick release skewer length (mm)	129	-	✓	-
	133	✓	✓	✓
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	-
	110 x 15	-	-	-
	110 x 20	-	-	-
Flange distance (mm)		60.2	60.2	58.1
Offset (mm)		5.5	5.3	5.3
P.C.D. left / right (mm)		44/44	44/44	61/61
Flange diameter left / right (mm)		52.8	52.8 (32H/36H) 53.8 (28H)	70.6
Seal		Contact	Contact	Contact
Internal grease sleeve		-	-	-
Bearing	Stainless ball	-	-	-
	Cup	-	-	-
	Cone	-	-	-
	Cartridge	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel
	Finish	-	-	-
Quick release lever	Material	Steel	Steel	Steel
	Finish	Plated	Plated	Plated
Quick release housing	Material	Steel	Steel	Steel
	Finish	Plated	Plated	Plated
Quick release nut	Material	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-
Disc brake rotor lock ring	Material	-	-	-
	Finish	-	-	-
Average weight (g)		-	-	-
Note		-	-	-

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Front Hub (Rim Brake)

Series		SHIMANO	SHIMANO
Model no.		HB-TX500-QR	HB-TX500-NT
Color	1 Hub shell	Black	Black
	1 Quick release	Black	Black
	2 Hub shell	Silver	Silver
	2 Quick release	Black	Black
Brake type		Rim brake	Rim brake
O.L.D. (mm)		100	100
Spoke hole	28H	-	-
	32H	✓	✓
	36H	✓	✓
External serration disc brake rotor lock ring	With	-	-
	Without	✓	✓
CENTER LOCK mount cover option		-	-
Axle fixing method		Quick release	Nut
Quick release skewer length (mm)	129	✓	-
	133	✓	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	-
	110 x 15	-	-
	110 x 20	-	-
Flange distance (mm)		71.6	71.6
Offset (mm)		0	0
P.C.D. left / right (mm)		38/38	38/38
Flange diameter (mm)		46	46
Seal		-	-
Internal grease sleeve		-	-
Bearing	Stainless ball	-	-
	Cup	-	-
	Cone	-	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Painted (Black), Clear	Painted (Black), Clear
Axle	Material	Steel	Steel
	Finish	-	-
Quick release lever	Material	Steel	-
	Finish	Plated	-
Quick release housing	Material	Steel	-
	Finish	Plated	-
Quick release nut	Material	Resin & Steel	-
	Finish	-	-
Disc brake rotor lock ring	Material	-	-
	Finish	-	-
Average weight (g)		-	-
Note			

FREEHUB (Disc Brake)

Series		XTR	XTR	XTR	SAINT	SAINT	DEORE XT
Model no.		FH-M9111	FH-M9111-B	FH-M9111-BS	FH-M820	FH-M825	FH-M8110
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
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
Rear speeds		12-speed	12-speed	12-speed	8-10-speed, MTB 11-speed	8-10-speed, MTB 11-speed	12-speed
O.L.D. (mm)		142	148	148	135	150	142
Spoke hole	28H	✓	✓	✓	-	-	✓
	32H	✓	✓	-	✓	✓	✓
	36H	-	-	-	✓	✓	✓
10 tooth cog compatible		✓	✓	✓	-	-	✓
External serration disc brake rotor lock ring	With	-	-	-	✓	✓	-
	Without	✓	✓	✓	-	-	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Thru	Thru	12 mm E-THRU
Quick release skewer length (mm)	166	-	-	-	-	-	-
	168	-	-	-	-	-	-
	170	-	-	-	-	-	-
	172	-	-	-	-	-	-
	173	-	-	-	-	-	-
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	✓	-	-
	135 x 12	-	-	-	✓	-	-
	142 x 12	✓	-	-	-	-	✓
	148 x 12	-	✓	✓	-	-	-
	150 x 12	-	-	-	-	✓	-
157 x 12	-	-	-	-	-	-	
Flange distance (mm)		55.89	63.06	56.0	57.4	72.4	55.17
Offset (mm)		7.05	7.02	6.8	6.4	6.6	6.72
P.C.D. left / right (mm)		50/61	47.25/61	45/61	44/45	44/45	61/61
Flange diameter left / right (mm)		59/70	56.25/70	51/68.4	52.8/53.8	52.8/53.8	69.8/69.8
Spline type	MICRO SPLINE	✓	✓	✓	-	-	✓
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	✓	✓	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Direct engagement	Direct engagement	Direct engagement	Pawl ratchet	Pawl ratchet	Direct engagement
Quick engagement		✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (more than 36 times/ 360 deg.)	✓ (more than 36 times/ 360 deg.)	✓ (max 7.0 deg.)
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	✓	✓	-
Bearing	Stainless ball	✓	✓	✓	-	-	-
	Cup	Grinded	Grinded	Grinded	Grinding	Grinding	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN & Polish
	Cartridge	-	-	-	-	-	-
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Aluminum
	Finish	Anodized	Anodized	Anodized	-	-	Anodized
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Aluminum
	Finish	Anodized	Anodized	Anodized	-	-	Anodized
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	-
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
Average weight (g) (w/o axle, quick release nor lock ring)		237	238	241	347 (ø10) 333 (ø12)	348	305
Note				For straight spoke, Lacing pattern limited to 3-cross, non-offset rim For details, refer to Products Technical Information			

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FREEHUB (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		FH-M8110-B	FH-M8110-BS	FH-M8130-B	FH-M8000	FH-M8010	FH-M8010-B
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	Series color	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
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
Rear speeds		12-speed	12-speed	12-speed	8-10-speed, MTB 11-speed	8-10-speed, MTB 11-speed	8-10-speed, MTB 11-speed
O.L.D. (mm)		148	148	157	135	142	148
Spoke hole	28H	✓	✓	✓	-	-	-
	32H	✓	-	✓	✓	✓	✓
	36H	✓	-	-	-	✓	-
10 tooth cog compatible		✓	✓	✓	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	166	-	-	-	-	-	-
	168	-	-	-	✓	-	-
	170	-	-	-	-	-	-
	172	-	-	-	-	-	-
	173	-	-	-	✓	-	-
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	✓	-
	148 x 12	✓	✓	-	-	-	✓
	150 x 12	-	-	-	-	-	-
Flange distance (mm)		62.16	55.95	72.69	57.4	57.4	63.4
Offset (mm)		6.6	6.78	6.43	6.9	6.4	6.4
P.C.D. left / right (mm)		60/61	45/61	58/61	44/45	44/45	44/45
Flange diameter left / right (mm)		68.8/69.8	51/68.4	66.8/69.8	52.8/53.8	52.8/53.8	52.8/53.8
Spline type	MICRO SPLINE	✓	✓	✓	-	-	-
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	✓	✓	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Direct engagement	Direct engagement	Direct engagement	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (more than 36 times/ 360 deg.)	✓ (more than 36 times/ 360 deg.)	✓ (more than 36 times/ 360 deg.)
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	✓	✓	✓
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	Polish	Polish	Polish	-	-	-
	Cone	CBN & Polish	CBN & Polish	CBN & Polish	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Anodized	Anodized	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	Aluminum	-	-
	Finish	-	-	-	Anodized	-	-
Quick release housing	Material	-	-	-	Aluminum	-	-
	Finish	-	-	-	Anodized	-	-
Quick release nut	Material	-	-	-	Resin & Steel	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		307	306	310	331	359	367
Note		<p>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 office for more information.</p>					

FREEHUB (Disc Brake)

Series		DEORE XT	SLX	SLX	SLX	DEORE	DEORE
Model no.		FH-M756-A	FH-M7110	FH-M7110-B	FH-M7130-B	FH-M6000	FH-M6010
Color	1 Hub shell	Black	Series color	Series color	Series color	Series Black	Series Black
	1 Quick release	Black	-	-	-	Series Black	-
	2 Hub shell	Silver	-	-	-	-	-
	2 Quick release	Black	-	-	-	-	-
Brake type		6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		8-10-speed, MTB 11-speed	12-speed	12-speed	12-speed	8-10-speed, MTB 11-speed	8-10-speed, MTB 11-speed
O.L.D. (mm)		135	142	148	157	135	142
Spoke hole	28H	-	✓	✓	✓	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	-	✓	-
10 tooth cog compatible		-	✓	✓	✓	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		Quick release	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release	12 mm E-THRU
Quick release skewer length (mm)	166	-	-	-	-	-	-
	168	✓	-	-	-	✓	-
	170	-	-	-	-	-	-
	172	-	-	-	-	-	-
	173	✓	-	-	-	✓	-
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	✓	-	-	-	✓
	148 x 12	-	-	✓	-	-	-
	150 x 12	-	-	-	✓	-	-
Flange distance (mm)		57.1	55.17	62.16	72.69	57.4	57.4
Offset (mm)		6.8	6.72	6.6	6.43	6.6	6.4
P.C.D. left / right (mm)		61	61/61	60/61	58/61	45	44/45
Flange diameter left / right (mm)		70.6	69.8/69.8	68.8/69.8	66.8/69.8	53.8	52.8/ 53.8
Spline type	MICRO SPLINE	-	✓	✓	✓	-	-
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	✓	-	-	-	✓	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Pawl ratchet	Direct engagement	Direct engagement	Direct engagement	Pawl ratchet	Pawl ratchet
Quick engagement		-	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	-	✓ (more than 36 times/360 deg.)
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		✓	-	-	-	✓	✓
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	Polish	Polish	Polish	-	-
	Cone	CBN	CBN & Polish	CBN & Polish	CBN & Polish	CBN	CBN
	Cartridge	-	-	-	-	-	-
FREEHUB body	Material	Steel	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	-	Anodized	Anodized	Anodized	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	Aluminum	-	-	-	Aluminum	-
	Finish	Anodized	-	-	-	Painted	-
Quick release housing	Material	Aluminum	-	-	-	Aluminum	-
	Finish	Anodized	-	-	-	Painted	-
Quick release nut	Material	Resin & Steel	-	-	-	Resin & Steel	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		426	350	354	359	-	-
Note		Spoke hole 24H spec available					

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FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-MT410	FH-MT410-B	FH-MT401	FH-MT401-B	FH-M525A	FH-M475
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	Black	Black	Black	Black
	2 Hub shell	-	-	-	-	Silver	Silver
	2 Quick release	-	-	-	-	Black	Black
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake	6-bolt disc brake
Rear speeds		12-speed	12-speed	12-speed	12-speed	8-10-speed, MTB 11-speed	8-10 speed, MTB 11-speed
O.L.D. (mm)		142	148	135	141	135	135
Spoke hole	28H	✓	✓	✓	✓	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
10 tooth cog compatible		✓	✓	✓	✓	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	-	-	-	-	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	-	-	-	-	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	Quick release	Quick release	Quick release	Quick release
Quick release skewer length (mm)	166	-	-	-	-	-	✓
	168	-	-	✓	-	✓	-
	170	-	-	-	-	-	✓
	172	-	-	-	-	-	-
	173	-	-	✓	-	✓	✓
	174	-	-	-	✓	-	-
	176	-	-	-	-	-	-
	178	-	-	-	✓	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	✓	-	-	-	-	-
	148 x 12	-	✓	-	-	-	-
	150 x 12	-	-	-	-	-	-
Flange distance (mm)		55.17	61.6	55.17	61.6	57.1	57.1
Offset (mm)		6.72	6.6	6.72	6.6	6.8	6.8
P.C.D. left / right (mm)		61/61	60/61	61/61	60/61	61/61	61/61
Flange diameter left / right (mm)		69.8/69.8	68.8/69.8	69.8/69.8	68.8/69.8	70.6	70.6
Spline type	MICRO SPLINE	✓	✓	✓	✓	-	-
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	-	✓	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		✓ (36 times/360 deg.)	✓ (36 times/360 deg.)	✓ (36 times/360 deg.)	✓ (36 times/360 deg.)	-	-
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	CBN	-
	Cartridge	✓	✓	✓	✓	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	Aluminum	Aluminum	Aluminum	Steel
	Finish	-	-	Painted	Painted	Anodized	Plated
Quick release housing	Material	-	-	Steel	Steel	Aluminum	Steel
	Finish	-	-	Painted	Painted	Anodized	Plated
Quick release nut	Material	-	-	Resin & Steel	Resin & Steel	Resin & Steel	Steel + Resin
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		-	-	-	-	-	-
Note		-	-	-	-	-	-

FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-M4050	FH-M3050	FH-MT500	FH-MT500-B	FH-MT510	FH-MT510-B
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	Black	-	-
	2 Hub shell	Silver	-	-	-	-	-
	2 Quick release	Black	-	-	-	-	-
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
Rear speeds		8-10 speed, MTB 11-speed	8-10-speed, MTB 11-speed	12-speed	12-speed	12-speed	12-speed
O.L.D. (mm)		135	135	135	141	142	148
Spoke hole	28H	-	-	✓	✓	✓	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
10 tooth cog compatible		-	-	✓	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		Quick release	Quick release	Quick release	Quick release	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	166	-	✓	-	-	-	-
	168	✓	-	✓	-	-	-
	170	-	✓	-	-	-	-
	172	-	-	-	-	-	-
	173	✓	-	✓	-	-	-
	174	-	-	-	✓	-	-
	176	-	-	-	-	-	-
	178	-	-	-	✓	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	✓	-
	148 x 12	-	-	-	-	-	✓
	150 x 12	-	-	-	-	-	-
Flange distance (mm)		57.4	57.4	55.17	62.16	55.17	62.16
Offset (mm)		6.6	6.6	6.72	6.6	6.72	6.6
P.C.D. left / right (mm)		45/45	45/45	61/61	60/61	61/61	60/61
Flange diameter left / right (mm)		53.8	53.8	69.8/69.8	68.8/69.8	69.8/69.8	68.8/69.8
Spline type	MICRO SPLINE	-	-	✓	✓	✓	✓
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	✓	✓	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		-	-	✓	✓	✓	✓
Seal	Hub	Labyrinth & Contact	Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	Contact	-	Contact	Contact	Contact	Contact
Internal grease sleeve		✓	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	-	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	Aluminum	Steel	Aluminum	Aluminum	-	-
	Finish	Painted	Plated	Painted	Painted	-	-
Quick release housing	Material	Steel	Steel	Steel	Steel	-	-
	Finish	Plated	Plated	Painted	Painted	-	-
Quick release nut	Material	Steel + Resin	Steel + Resin	Resin & Steel	Resin & Steel	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		-	-	-	-	-	-
Note		-	-	-	-	-	-

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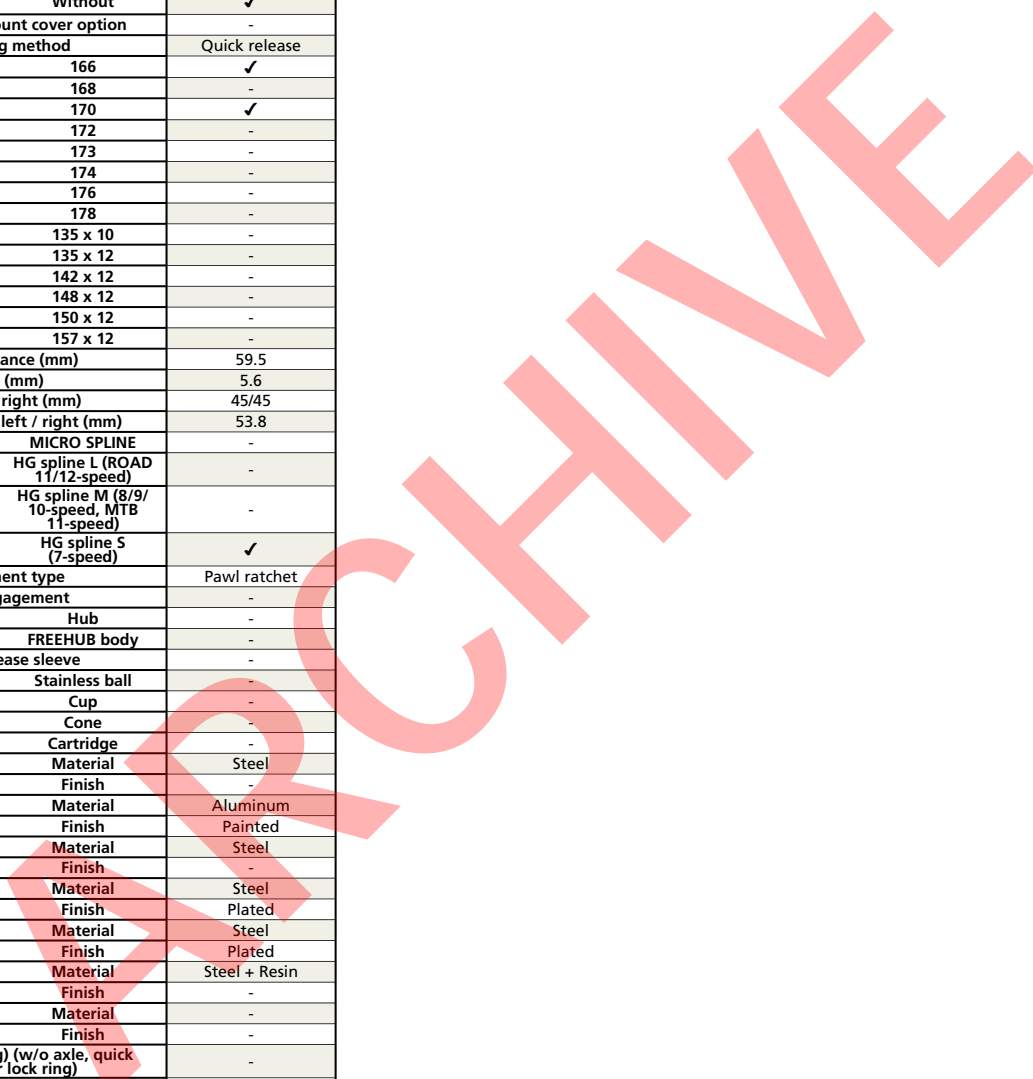
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FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-MT400	FH-MT400-B	FH-MT200-B	FH-RM35	FH-TX505-8	FH-TX506
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	Black	Black	Black
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake
Rear speeds		8-10-speed, MTB 11-speed	8-10-speed, MTB 11-speed	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	8-10-speed
O.L.D. (mm)		142	148	141	135	135	135
Spoke hole	28H	-	✓	✓	✓*	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
10 tooth cog compatible		-	-	-	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	-
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	-
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	Quick release	Quick release	Quick release	Quick release
Quick release skewer length (mm)	166	-	-	-	✓	✓	✓
	168	-	-	-	-	-	-
	170	-	-	-	✓	✓	✓
	172	-	-	✓	-	-	-
	173	-	-	-	-	-	-
	174	-	-	-	-	-	-
	176	-	-	✓	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	✓	-	-	-	-	-
	148 x 12	-	✓	-	-	-	-
	150 x 12	-	-	-	-	-	-
Flange distance (mm)		57.4	63.4	63.4	57.4	57.4	56
Offset (mm)		6.65	6.65	6.65	6.6	6.6	6.1
P.C.D. left / right (mm)		44/45	44/45	45/45	45/45	45/45	61/61
Flange diameter left / right (mm)		52.8/53.8	52.8/53.8	53.8	53.8	53.8	70.6
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	✓	✓	✓	✓	✓	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 deg.)	-	-	-	-
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	Contact	-	-	-	-
Internal grease sleeve		✓	✓	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	-	-	-	-
	Cartridge	-	-	-	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	Steel	Steel	Steel	Steel
	Finish	-	-	Plated	Plated	Plated	Plated
Quick release housing	Material	-	-	Steel	Steel	Steel	Steel
	Finish	-	-	Painted	Plated	Plated	Plated
Quick release nut	Material	-	-	Steel + Resin	Steel + Resin	Steel + Resin	Steel + Resin
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		-	-	-	-	-	-
Note		-	-	-	* 166 mm Quick release spec.	-	-

FREEHUB (Disc Brake)

Series		SHIMANO
Model no.		FH-TY505-7
Color	1 Hub shell	Black
	1 Quick release	Black
	2 Hub shell	
	2 Quick release	
Brake type		CENTER LOCK disc brake
Rear speeds		7-speed
O.L.D. (mm)		135
Spoke hole	28H	-
	32H	✓
	36H	✓
10 tooth cog compatible		-
External serration disc brake rotor lock ring	With	-
	Without	✓
Internal serration disc brake rotor lock ring	With	-
	Without	✓
CENTER LOCK mount cover option		-
Axle fixing method		Quick release
Quick release skewer length (mm)	166	✓
	168	-
	170	✓
	172	-
	173	-
	174	-
	176	-
	178	-
Thru axle (length x inner diameter ; mm)	135 x 10	-
	135 x 12	-
	142 x 12	-
	148 x 12	-
	150 x 12	-
	157 x 12	-
Flange distance (mm)		59.5
Offset (mm)		5.6
P.C.D. left / right (mm)		45/45
Flange diameter left / right (mm)		53.8
Spline type	MICRO SPLINE	-
	HG spline L (ROAD 11/12-speed)	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-
	HG spline S (7-speed)	✓
Engagement type		Pawl ratchet
Quick engagement		-
Seal	Hub	-
	FREEHUB body	-
Internal grease sleeve		-
Bearing	Stainless ball	-
	Cup	-
	Cone	-
	Cartridge	-
FREEHUB body	Material	Steel
	Finish	-
Hub shell	Material	Aluminum
	Finish	Painted
Axle	Material	Steel
	Finish	-
Quick release lever	Material	Steel
	Finish	Plated
Quick release housing	Material	Steel
	Finish	Plated
Quick release nut	Material	Steel + Resin
	Finish	-
Disc brake rotor lock ring	Material	-
	Finish	-
Average weight (g) (w/o axle, quick release nor lock ring)		-
Note		



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FREEHUB (Rim Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-TX500-8-QR	FH-TX500-8-NT	FH-TY500-7-QR	FH-TY500-7-NT
Color	1 Hub shell	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	-
	2 Hub shell	Silver	Silver	-	-
	2 Quick release	Black	Black	-	-
Brake type		Rim brake	Rim brake	Rim brake	Rim brake
Rear speeds		8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	7-speed	7-speed
O.L.D. (mm)		135	135	135	135
Spoke hole	28H	-	-	-	-
	32H	✓	✓	✓	✓
	36H	✓	✓	✓	✓
10 tooth cog compatible		-	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-
	Without	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-
	Without	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-
Axle fixing method		Quick release	Nut	Quick release	Nut
Quick release skewer length (mm)	166	✓	-	✓	-
	168	-	-	-	-
	170	✓	-	✓	-
	173	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-
	135 x 12	-	-	-	-
	142 x 12	-	-	-	-
	148 x 12	-	-	-	-
	150 x 12	-	-	-	-
Flange distance (mm)		57.4	57.4	57.4	57.4
Offset (mm)		6.8	6.8	4.6	4.6
P.C.D. left / right (mm)		45	45	45	45
Flange diameter left / right (mm)		53.8	53.8	53.8	53.8
Quick engagement		-	-	-	-
Seal	Hub	-	-	-	-
	FREEHUB body	-	-	-	-
Internal grease sleeve		-	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	-	-	-	-
	Cone	-	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted (Black), Clear	Painted (Black), Clear	Painted (Black)	Painted (Black)
Axle	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
Quick release lever	Material	Steel	-	Steel	-
	Finish	Plated	-	Plated	-
Quick release housing	Material	Steel	-	Steel	-
	Finish	Plated	-	Painted	-
Quick release nut	Material	Steel + Resin	-	Steel + Resin	-
	Finish	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-
	Finish	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		-	-	-	-
Note				O.L.D. 130 mm available (refer to ROAD FREEHUB specification table)	O.L.D. 130 mm available (refer to ROAD FREEHUB specification table)

Wheel (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model 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
Specification		F15-B-29	F15-B-275	R12-B-29	R12-B-275	F15-B-29	F15-B-275
Color	1 Hub shell	Black	Black	Black	Black	Series color	Series color
	1 Quick release	-	-	-	-	-	-
	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
Rear speeds		-	-	MTB 12-speed	MTB 12-speed	-	-
O.L.D. (mm)		110	110	148	148	110	110
Wheel 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 30C (29 inch)	584 x 30C (650B = 27.5 inch)
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
	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
Rim	Height (mm)	18.8	18.8	18.8	18.8	19.8	19.8
	Internal width (mm)	23.8	23.8	23.8	23.8	30	30
	External width (mm)	27.9	27.9	27.9	27.9	34.7	34.7
	Rim joint	Welding	Welding	Welding	Welding	Welding	Welding
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	✓	✓	✓	✓	✓	✓
	Requires rim tape	✓ (24 - 622)	✓ (24 - 584)	✓ (24 - 622)	✓ (24 - 584)	✓ (30 - 584)	✓ (30 - 584)
	Spokes	Number	28	28	28	28	28
Spokes	Straight pull	✓	✓	✓	✓	-	-
	J-bend	-	-	-	-	✓	✓
	Diameter (mm)	2 - 1.5	2 - 1.5	2 - 1.5	2 - 1.5	2.0 - 1.8	2.0 - 1.8
	Axle fixing method	15 mm E-THRU	15 mm E-THRU	12 mm E-THRU	12 mm E-THRU	15 mm E-THRU	15 mm E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-	-
	168	-	-	-	-	-	-
	173	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	-	-	-	-
	110 x 15	✓	✓	-	-	✓	✓
	142 x 12	-	-	-	-	-	-
	148 x 12	-	-	✓	✓	-	-
Spline type	MICRO SPLINE	-	-	✓	✓	-	-
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	-	Direct engagement	Direct engagement	-	-
Quick engagement		-	-	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	-	-
Bearing	Stainless ball	✓	✓	-	-	✓	✓
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	CBN & Polish	CBN & Polish	CBN	CBN
	Cartridge	-	-	-	-	-	-
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	-	-	Contact	Contact	-	-
Internal grease sleeve		✓	✓	-	-	✓	✓
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black	Black	Black	Black	Black	Black
FREEHUB body	Material	-	-	Aluminum	Aluminum	-	-
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
	Color	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Reflector	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
	AS	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	CATEYE RR-550-WUA SW
	DIN	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 SW
Average weight (g) (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)		846	808	994	956	941	875
Note							

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

SC

Wheel (Disc Brake)

Series	DEORE XT	DEORE XT	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model 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	
Specification	R12-B-29	R12-B-275	F15-B-29	F15-B-275	R12-B-29	R12-B-275	
Color	1 Hub shell	Series color	Series color	Black	Black	Black	
	1 Quick release	-	-	-	-	-	
	2 Hub shell	-	-	-	-	-	
	2 Quick release	-	-	-	-	-	
Front/Rear	Rear	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	
Rear speeds	MTB 12-speed	MTB 12-speed	-	-	MTB 12-speed	MTB 12-speed	
O.L.D. (mm)	148	148	110	110	148	148	
Wheel size	622 x 30C (29 inch)	584 x 30C (650B = 27.5 inch)	622 x 30C (29 inch)	584 x 30C (650B = 27.5 inch)	622 x 30C (29 inch)	584 x 30C (650B = 27.5 inch)	
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	
	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
Rim	Height (mm)	19.8	19.8	19.8	19.8	19.8	
	Internal width (mm)	30	30	30	30	30	
	External width (mm)	34.7	34.7	34.7	34.7	34.7	
	Rim joint	Welding	Welding	Welding	Welding	Welding	Welding
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	✓	✓	✓	✓	✓	✓
	Requires rim tape	✓ (30 - 622)	✓ (30 - 584)	✓ (30 - 584)	✓ (30 - 584)	✓ (30 - 584)	✓ (30 - 584)
Spokes	Number	28	28	24	24	24	
	Straight pull	-	-	-	-	-	
	J-bend	✓	✓	✓	✓	✓	
	Diameter (mm)	2.0 - 1.8	2.0 - 1.8	-	-	-	-
Axle fixing 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	
Quick release skewer length (mm)	133	-	-	-	-	-	
	168	-	-	-	-	-	
	173	-	-	-	-	-	
	178	-	-	-	-	-	
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	-	-	-	
	110 x 15	-	-	✓	✓	-	
	142 x 12	-	-	-	-	-	
	148 x 12	✓	✓	-	-	✓	
Spline type	MICRO SPLINE	✓	✓	-	-	✓	
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-	
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	-	-	
	HG spline S (7-speed)	-	-	-	-	-	
Engagement type	Direct engagement	Direct engagement	-	-	Pawl ratchet	Pawl ratchet	
Quick engagement	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	-	-	-	-	
Bearing	Stainless ball	-	-	-	-	-	
	Cup	-	-	-	-	-	
	Cone	CBN & Polish	CBN & Polish	CBN	CBN	CBN	
	Cartridge	-	-	-	-	-	
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	
	FREEHUB body	Contact	Contact	-	-	Contact	
Internal grease sleeve							
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	Black	Black	
Nipple	Material	Aluminum	Aluminum	Brass	Brass	Brass	
	Finish	Black	Black	Black	Black	Black	
FREEHUB body	Material	Aluminum	Aluminum	-	-	Steel	
	Finish	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Painted	Painted	Painted	
Axle	Material	Aluminum	Aluminum	Steel	Steel	Steel	
	Finish	Anodized	Anodized	-	-	-	
Quick release lever	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
	Color	-	-	-	-	-	
Quick release housing	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Quick release nut	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Disc brake rotor lock ring	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Reflector	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	
	AS	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	
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	
Average weight (g) (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)	1061	1016	990	940	1255	1206	
Note							

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model 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
Specification		F15-29	R12-29	F15-275	R12-275	F15-B-29	R12-B-29
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Rear	Front	Rear	Front	Rear
Brake type		CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Rear speeds		-	12-speed	-	12-speed	-	12-speed
O.L.D. (mm)		100	142	100	142	110	148
Wheel 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)
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
	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
Rim	Height (mm)	20.8	20.8	20.8	20.8	20.8	20.8
	Internal width (mm)	25	25	25	25	25	25
	External width (mm)	29.7	29.7	29.7	29.7	29.7	29.7
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓ (25 - 622)	✓ (25 - 622)	✓ (25 - 584)	✓ (25 - 584)	✓ (25 - 622)	✓ (25 - 622)
Spokes	Number	24	24	24	24	24	24
	Straight pull	-	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓	✓
	Diameter (mm)	2.3	2.3	2.3	2.3	2.3	2.3
Axle fixing method		15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-	-
	168	-	-	-	-	-	-
	173	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	✓	-	✓	-	-	-
	110 x 15	-	-	-	-	✓	-
	142 x 12	-	✓	-	✓	-	-
	148 x 12	-	-	-	-	-	✓
Spline type	MICRO SPLINE	-	✓	-	✓	-	✓
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet
Quick engagement		-	✓ (36 times/ 360 deg.)	-	✓ (36 times/ 360 deg.)	-	✓ (36 times/ 360 deg.)
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	-	-
	Cartridge	✓	✓	✓	✓	✓	✓
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal grease sleeve		-	-	-	-	-	-
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass	Brass
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
FREEHUB body	Material	-	Steel	-	Steel	-	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Axle	Material	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
	Color	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Reflector	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
	AS	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	CATEYE RR-550-WUA SW
	DIN	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 SW
Average weight (g) (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)		931	1238	884	1189	935	1248
Note							

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

SC

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model 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
Specification		F15-B-275	R12-B-275	F15-29	F15-275	R12-29	R12-275
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	-	-
	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
Rear speeds		-	12-speed	-	-	8-10-speed, MTB 11-speed***	8-10-speed, MTB 11-speed***
O.L.D. (mm)		110	148	100	100	142	142
Wheel size		584 x 25C (650B = 27.5 inch)	584 x 25C (650B = 27.5 inch)	622 x 24C (29 inch)	584 x 24C (650B = 27.5 inch)	622 x 24C (29 inch)	584 x 24C (650B = 27.5 inch)
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
	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
Rim	Height (mm)	20.8	20.8	21	21	21	21
	Internal width (mm)	25	25	24	24	24	24
	External width (mm)	29.7	29.7	28.8	28.8	28.8	28.8
	Rim joint	Sleeve	Sleeve	Welding	Welding	Welding	Welding
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓ (25 - 584)	✓ (25 - 584)	✓ (24 - 622)	✓ (24 - 584)	✓ (24 - 622)	✓ (24 - 584)
Spokes	Number	24	24	24	24	24	24
	Straight pull	-	-	✓	✓	✓	✓
	J-bend	✓	✓	-	-	-	-
	Diameter (mm)	2.3	2.3	2	2	2	2
Axle fixing 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
Quick release skewer length (mm)	133	-	-	-	-	-	-
	168	-	-	-	-	-	-
	173	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	✓	✓	-	-
	110 x 15	✓	-	-	-	-	-
	142 x 12	-	-	-	-	✓	✓
	148 x 12	-	✓	-	-	-	-
Spline type	MICRO SPLINE	-	✓	-	-	-	-
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	-	✓	✓
Engagement type		-	Pawl ratchet	-	-	Pawl ratchet	Pawl ratchet
	Quick engagement	-	✓ (36 times/ 360 deg.)	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	CBN	CBN	CBN	CBN
	Cartridge	✓	✓	-	-	-	-
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	-	Contact	-	-	Contact	Contact
Internal grease sleeve		-	-	✓	✓	✓	✓
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Plated	Plated	Black	Black	Black	Black
FREEHUB body	Material	-	Steel	-	-	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Steel	Aluminum	Aluminum	Steel	Steel
	Finish	-	-	Anodized	Anodized	-	-
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
	Color	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	Steel	Steel	-	-
	Finish	-	-	Painted	Painted	-	-
Reflector	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
	AS	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	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW
Average weight (g) (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)		888	1199	964	923	1156	1115
Note		-	-	-	-	-	-

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model 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
Specification		F15-B-29	F15-B-275	R12-B-29	R12-B-275	R12-B-29	R12-B-275
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Front	Rear	Rear	Rear	Rear
Brake type		CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Rear speeds		-	-	8-10-speed, MTB 11-speed***	8-10-speed, MTB 11-speed***	MTB 12-speed	MTB 12-speed
O.L.D. (mm)		110	110	148	148	148	148
Wheel 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)
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Clincher	Clincher
	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
Rim	Height (mm)	21	21	21	21	21	21
	Internal width (mm)	24	24	24	24	24	24
	External width (mm)	28.8	28.8	28.8	28.8	29.6	29.6
	Rim joint	Welding	Welding	Welding	Welding	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓ (24 - 622)	✓ (24 - 584)	✓ (24 - 622)	✓ (24 - 584)	✓ (24 - 622)	✓ (24 - 584)
Spokes	Number	24	24	24	24	24	24
	Straight pull	✓	✓	✓	✓	-	-
	J-bend	-	-	-	-	✓	✓
	Diameter (mm)	2	2	2	2	2.3	2.3
Axle fixing method		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 length (mm)	133	-	-	-	-	-	-
	168	-	-	-	-	-	-
	173	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	-	-	-	-
	110 x 15	✓	✓	-	-	-	-
	142 x 12	-	-	-	-	-	-
	148 x 12	-	-	✓	✓	✓	✓
Spline type	MICRO SPLINE	-	-	-	-	✓	✓
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	✓	✓	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	-	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	-	-	Contact	Contact	Contact	Contact
Internal grease sleeve		✓	✓	✓	✓	-	-
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Brass	Brass
	Finish	Black	Black	Black	Black	Black	Black
FREEHUB body	Material	-	-	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Axle	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Anodized	Anodized	-	-	-	-
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
	Color	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	Steel	Steel	-	-	-	-
	Finish	Painted	Painted	-	-	-	-
Reflector	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
	AS	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	CATEYE RR-550-WUA SW
	DIN	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW
Average weight (g) (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)		970	930	1170	1130	1260	1208
Note		-	-	-	-	-	-

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model 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 name		WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL
Specification		F-275	R-275	F15-275	R12-275	F15-B-275	R12-B-275
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Rear	Front	Rear	Front	Rear
Brake type		CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Rear speeds		-	8-10-speed, MTB 11-speed***	-	8-10-speed, MTB 11-speed***	-	8-10-speed, MTB 11-speed***
O.L.D. (mm)		100	135	100	142	110	148
Wheel 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)
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
	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
Rim	Height (mm)	21	21	21	21	21	21
	Internal width (mm)	24	24	24	24	24	24
	External width (mm)	29.6	29.6	29.6	29.6	29.6	29.6
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓ (24 - 584)	✓ (24 - 584)	✓ (24 - 584)	✓ (24 - 584)	✓ (24 - 584)	✓ (24 - 584)
Spokes	Number	24	24	24	24	24	24
	Straight pull	-	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓	✓
	Diameter (mm)	2.3	2.3	2.3	2.3	2.3	2.3
Axle fixing method		Quick release	Quick release	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133	✓	-	-	-	-	-
	168	-	✓	-	-	-	-
	173	-	✓	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	✓	-	-	-
	110 x 15	-	-	-	✓	-	-
	142 x 12	-	-	-	✓	-	-
	148 x 12	-	-	-	-	-	✓
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-	✓	-	✓	-	✓
HG spline S (7-speed)	-	-	-	-	-	-	
Engagement type		-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet
Quick engagement		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	-	-	-	Contact	-	Contact
Internal grease sleeve		✓	✓	✓	✓	✓	✓
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass	Brass
	Finish	Black	Black	Black	Black	Black	Black
FREEHUB body	Material	-	-	-	Steel	-	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Aluminum	Steel	Aluminum	Steel
	Finish	-	-	Anodized	-	Anodized	-
Quick release lever	Material	Aluminum	Aluminum	-	-	-	-
	Finish	Painted	Painted	-	-	-	-
Quick release housing	Color	Black	Black	-	-	-	-
	Material	Steel	Steel	-	-	-	-
Quick release nut	Material	Resin & Steel	Resin & Steel	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	Steel	-	Steel	-
	Finish	-	-	Painted	-	Painted	-
Reflector	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
	AS	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	CATEYE RR-550-WUA SW
	DIN	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW
Average weight (g) (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)		962	1147	936	1133	946	1145
Note		-	*** Spoke protector is available only for 9 & 10-speed	-	*** Spoke protector is available only for 9 & 10-speed	-	*** Spoke protector is available only for 9 & 10-speed

Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model 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 name	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL
Specification	F-29	R-29	F15-29	R12-29	F15-B-29	R12-B-29
Color	1 Hub shell	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	-	-	-
	2 Hub shell	-	-	-	-	-
	2 Quick release	-	-	-	-	-
Front/Rear	Front	Rear	Front	Rear	Front	Rear
Brake type	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Rear speeds	-	8-10-speed, MTB 11-speed***	-	8-10-speed, MTB 11-speed***	-	8-10-speed, MTB 11-speed***
O.L.D. (mm)	100	135	100	142	110	148
Wheel size	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)
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher
	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
Rim	Height (mm)	21	21	21	21	21
	Internal width (mm)	24	24	24	24	24
	External width (mm)	29.6	29.6	29.6	29.6	29.6
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
	Requires rim tape	✓ (24 - 622)	✓ (24 - 622)	✓ (24 - 622)	✓ (24 - 622)	✓ (24 - 622)
Spokes	Number	24	24	24	24	24
	Straight pull	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓
	Diameter (mm)	2.3	2.3	2.3	2.3	2.3
Axle fixing method	Quick release	Quick release	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133	✓	-	-	-	-
	168	-	✓	-	-	-
	173	-	✓	-	-	-
	178	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	✓	-	-
	110 x 15	-	-	-	✓	-
	142 x 12	-	-	-	✓	-
	148 x 12	-	-	-	-	✓
Spline type	MICRO SPLINE	-	-	-	-	-
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-	✓	-	✓	-
	HG spline S (7-speed)	-	-	-	-	-
Engagement type	-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet
Quick engagement	-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	-	-	-	Contact	-
Internal grease sleeve	✓	✓	✓	✓	✓	✓
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass
	Finish	Black	Black	Black	Black	Black
FREEHUB body	Material	-	-	-	Steel	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Aluminum	Steel	Steel
	Finish	-	-	Anodized	-	Anodized
Quick release lever	Material	Aluminum	Aluminum	-	-	-
	Finish	Painted	Painted	-	-	-
	Color	Black	Black	-	-	-
Quick release housing	Material	Steel	Steel	-	-	-
	Finish	Painted	Painted	-	-	-
Quick release nut	Material	Resin & Steel	Resin & Steel	-	-	-
	Finish	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	Steel	-	Steel
	Finish	-	-	Painted	-	Painted
Reflector	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
	AS	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
	DIN	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW
Average weight (g) (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)	1013	1200	988	1186	998	1199
Note	-	-	-	-	-	-

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

SC

Wheel (Disc Brake)

Series		SHIMANO
Model no.		WH-MT15-A-F15-275
Model name		WH-MT15-A
Specification		F15-275
Color	1 Hub shell	Black
	1 Quick release	Black
	2 Hub shell	White
	2 Quick release	Black
Front/Rear		Front
Brake type		CENTER LOCK Disc
Rear speeds		-
O.L.D. (mm)		100
Wheel size		584 x 19C (650B = 27.5 inch)
Tire	Type	Clincher
	Recommended size	27.5 x 1.90 - 2.25
Rim	Height (mm)	21
	Internal width (mm)	19
	External width (mm)	24.6
	Rim joint	Sleeve
	Brazed reinforcement	-
	OFFSET RIM	-
	Requires rim tape	✓ (20-584)
Spokes	Number	28
	Straight pull	-
	J-bend	✓
	Diameter (mm)	2.0
Axle fixing method		15 mm E-THRU
Quick release skewer length (mm)	133	-
	168	-
	173	-
	178	-
Thru axle (length x inner diameter ; mm)	100 x 15	✓
	110 x 15	-
	142 x 12	-
	148 x 12	-
Spline type	MICRO SPLINE	-
	HG spline L (ROAD 11/12-speed)	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-
	HG spline S (7-speed)	-
Engagement type		-
Quick engagement		-
Bearing	Stainless ball	-
	Cup	-
	Cone	CBN
	Cartridge	-
Seal	Hub	Labyrinth & Contact
	FREEHUB body	-
Internal grease sleeve		✓
Rim	Material	Aluminum
	Finish	Anodized (Black rim)
Spoke	Material	Stainless steel
	Finish	Black
Nipple	Material	Brass
	Finish	Silver
FREEHUB body	Material	-
	Finish	-
Hub shell	Material	Aluminum
	Finish	Painted
Axle	Material	Aluminum
	Finish	Anodized
Quick release lever	Material	-
	Finish	-
	Color	-
Quick release housing	Material	-
	Finish	-
Quick release nut	Material	-
	Finish	-
Disc brake rotor lock ring	Material	Steel
	Finish	Painted
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW
	DIN	CATEYE RR317-WUA SW
Average weight (g) (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)		995 (Black) 1000 (White)
Note		

CI-DECK

Series		CI-DECK	CI-DECK	CI-DECK	CI-DECK	CI-DECK	CI-DECK
Model no.		ID-CI300-7R	ID-CI300-6R	ID-CI300-LC	ID-CI400	SM-CI300	SM-CI301
Compatible shift lever		SL-RS34/RS35/RS36/RS45/RS47	SL-RS34/RS35/RS36/RS45/RS47	-	-	-	-
Front speeds		-	-	-	-	-	-
Rear speeds		7	6	-	-	-	-
Shift lever compatible rear derailleur type		Top normal	Top normal	-	-	-	-
CI-DECK cable		Stainless steel	Stainless steel	-	-	-	-
CI-DECK cable type		TX50	TX50	-	-	-	-
OPTICAL GEAR DISPLAY	Front	-	-	-	-	-	-
	Rear	7-speed	6-speed	-	-	-	-
Clamp band diameter (mm)	22.2	-	-	-	-	-	-
	25	-	-	-	-	-	-
	22.2/25.0	-	-	-	-	✓	-
CI-DECK upper cover	Material	Resin	Resin	Resin	-	-	-
	Color	Painted	Painted	Painted	-	-	-
CI-DECK body	Material	Resin	Resin	Resin	-	-	-
	Color	-	-	-	-	-	-
Clamp band	Material	-	-	-	-	Resin	-
	Color	-	-	-	-	-	-
Note		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

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

SC

Cycle Computer (CI-DECK)

Series		CI-DECK
Model no.		SC-CI300
Compatible system		Mechanical
Attachment position		Handlebar
Battery type		CR2032
Charging for cycle computer		-
Front speeds		-
Rear speeds		-
Number of programmable wheel size		1
Wheel size range (inch)		16-26
Remote switch		-
Communications		Wired
Memory capacity		-
PC software available		-
Detachable		✓
Display spec	Size (mm ; active area)	20 x 20
	Font type	Segment
	Panel type	LCD
	Back light	-
	Touch panel	-
Display function	Gear indicator	-
	Speed	✓
	Cadence	-
	Trip distance	-
	Odometer	✓
	Heart rate	-
	Power	-
	Time/Clock	✓
	Altitude/Slope	-
	Temperature	-
	Lap time	-
	Auto display start	✓
Setting function	Display customizing	-
	Unit setting	-
	Language choice	-
	Beep on/off	-
	Changing data sampling rate	-
Note		Use with SM-CI300

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Shift 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	HB
FREEHUB (Rim/Disc Brake)	112	FH

Shift Lever

Series		DEORE XT	DEORE XT	DEORE	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 rear derailleur type		MTB 10-speed	-	MTB 10-speed	-
Mount type	Clamp band	✓	✓	✓	✓
	I-SPEC B	-	-	-	-
	I-SPEC II	-	-	-	-
	I-SPEC EV	-	-	-	-
Shift lever position adjust		-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-
Shift lever cable adjust		✓	✓	✓	✓
Front 2/3 mode converter		-	-	-	-
Max. multiple shifts (main lever/rear)		4	-	3	-
Release function	MULTI RELEASE	✓	-	-	-
	INSTANT RELEASE	✓	✓	-	-
	2-WAY RELEASE	✓	✓	✓	✓
	Adjustable mono lever	-	-	-	-
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓
	With (removable)	-	-	-	-
	Without	-	-	-	-
Multi-bearing construction		2	2	-	-
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	GFRP & Steel	GFRP & Steel
	Finish	Painted	Painted	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP
	Finish	Painted	Painted	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-
		OPTISLIC K	✓	✓	✓
		SIL-TEC	-	-	-
		Stainless	✓	✓	✓
		Steel	-	-	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		126	120	-	-
Note					

Brake Lever (Hydraulic Disc Brake)

Series		DEORE XT	DEORE XT	DEORE
Model no.		BL-T8100	BL-T8000	BL-T6000
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		3	3	3
Color	1	Series color	Series color	Series black
	2	-	-	Series silver
	3	-	-	Black (SHIMANO logo)*
Brake hose (kit)		SM-BH90-SBM	SM-BH90-SBM	SM-BH59-JK-SS
Hose joint		Banjo	Banjo	Straight
Brake hose color (kit)	1	Black	Black	Black
	2	-	-	-
J-Kit spec (for OEM)		✓	✓	✓
SERVO WAVE		-	-	-
Reach adjust	Toolless	✓	✓	-
	Tool	-	-	✓
Free stroke adjust		-	-	-
Compatible shift lever mount	Clamp band	✓	✓	✓
	I-SPEC B	-	-	-
	I-SPEC II	✓	✓	✓
	I-SPEC EV	-	-	-
Clamp band	Open clamp	✓	✓	✓
Recommended brake caliper		BR-M8100 BR-M8120	BR-M8000	BR-M6000
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓	✓
Clamp screw	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)		108	108	-
Note				* T6000 kit only

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Brake Lever

Series		DEORE	DEORE	SHIMANO	SHIMANO
Model no.		BL-T610	BL-T611	BL-T4000	BL-T4010
Color	1	Black	Black	Black	Black
	2	-	-	Silver	Silver
	3	-	-	-	-
Compatible brake type	V-BRAKE	✓	✓*	✓	✓*
	Mechanical disc brake (MTB)	✓	✓*	✓	✓*
	Mechanical disc brake (Road)	-	-	-	-
	Caliper (NEW SUPER SLR)	-	-	-	-
	Caliper (SUPER SLR)	-	-	-	-
	Cantilever brake	-	-	-	-
	Roller brake	-	-	-	-
Recommended POWER MODULATOR	V-BRAKE	-	SM-PM70	-	SM-PM40
	Mechanical disc brake (MTB)	-	SM-PM50	-	SM-PM50
Clamp band	Open clamp band	✓	✓	-	-
	I-SPEC	✓**	✓**	-	-
	Diameter (mm)	22.2	22.2	22.2	22.2
Internal bumper stop		✓	✓	✓	✓
Lever size (finger)		2	3	2	3
Brake cable type		T-type	T-type	T-type	T-type
Power adjuster		-	-	-	-
SERVO WAVE		-	-	-	-
Reach adjust		✓	✓	✓	✓
Cable adjust		✓	✓	✓	✓
Cable adjust type		Two hand	Two hand	Two hand	Two hand
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Stainless clamp screw		✓	✓	✓	✓
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

Rear Derailleur

Series		DEORE XT	DEORE	SHIMANO ALIVIO	ACERA
Model no.		RD-T8000-SGS	RD-T6000-SGS	RD-T4000	RD-T3000
Pulley cage		SGS	SGS	SGS	SGS
Color	1	Series color	Series black	Black	Black
	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
Top-normal spring type	SHIMANO SHADOW RD	✓	✓	-	-
	SHIMANO SHADOW RD+	-	-	-	-
	Double servo	-	-	✓	✓
Mount	Direct attachment (conventional)	✓	✓	✓	✓
	Direct mount	✓*	✓*	-	-
	Riveted adapter (road type)	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-
Mode converter		-	-	-	-
Cable adjuster		-	-	✓	✓
Max. front difference		22T	22T	22T	22T
Total capacity		47T	47T	45T	45T
Low sprocket	Max.	36T	36T	34T	34T
	Min.	32T	32T	28T	28T
Top sprocket	Max.	11T	11T	11T	11T
	Min.	11T	11T	11T	11T
Fluoroc coated link bushings		4	3	2	1
Pulley	Guide pulley bearing	Sealed Bearing	-	-	-
	Tension pulley bearing	Sealed Bearing	-	-	-
	Teeth	11T	11T	11T	11T
	Screws material	Stainless steel	Stainless steel	Steel	Steel
	Sunken type pulley screw	✓	✓	✓	✓
Bracket	Material	Aluminum	Steel	-	-
	Finish	Painted	Painted	-	-
B-axle	Hollow axle	✓	✓	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-
B-axle 2	Hollow axle	✓	✓	-	-
	Material	Stainless steel	Stainless steel	-	-
	Finish	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel
	Finish	-	-	Painted	Painted
Plate body	Material	Aluminum	GFRP	Resin	Resin
	Finish	Painted	-	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Outer plate	Material	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Cable fixing screw	Material	Stainless steel	Steel	Stainless steel	Stainless steel
	Finish	Plated	Plated	-	-
Stroke adjusting screw	Material	Steel	Steel	Stainless steel	Steel
	Finish	Plated	Plated	-	Plated
Average weight (g)		253	-	-	-
Note		* Possible to attach to direct mount in case bracket is removed.	* Possible to attach to direct mount in case bracket is removed.		

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Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE	DEORE	DEORE	
Model no.		FD-T8000-H-3	FD-T8000-L-3	FD-T8000-L-6	FD-T6000-H3	FD-T6000-L3	FD-T6000-L6	
Color	1	Series color	Series color	Series color	Series black	Series black	Series black	
	2	-	-	-	-	Series silver	Series silver	
Front speeds		3	3	3	3	3	3	
Rear speeds		10	10	10	10	10	10	
Compatible 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	
Action	TOP SWING	-	✓	✓	-	✓	✓	
	Down swing	✓	-	-	✓	-	-	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp band (mm)	28.6	✓* (w/ S size adapter)	✓* (w/ S size adapter)	✓* (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9	✓	✓	✓	✓	✓	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount	-	-	-	-	-	-	
Cable route type	Dual-pull	✓	✓	✓	✓	✓	✓	
	Top-pull exclusive	-	-	-	-	-	-	
	Down-pull exclusive	-	-	-	-	-	-	
	Front-pull	-	-	-	-	-	-	
Chain line (mm)		50	50	50	50	50	50	
Chainstay angle (deg.)		63-66	63-66	66-69	63-66	63-66	66-69	
Top gear teeth		48T	48T	48T	44T/48T	44T/48T	44T/48T	
Total capacity		22T	22T	22T	22T	22T	22T	
Applicable top-mid tooth difference		12T	12T	12T	12T	12T	12T	
Multi access cable fixing screw		-	-	-	-	✓	✓	
Angled stroke adjust screw		-	-	-	-	-	-	
Angled clamp band design		✓	✓	✓	-	-	-	
Link bushings		8	2	2	8	2	2	
Front clamp band	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Steel	Steel	Aluminum	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Plated	Plated	Plated	
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke adjusting screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Average weight (g) (band type: L size, direct type w/ screw)		169	155	155	-	-	-	
Note		* S-size adapter is available only OTC package	* S-size adapter is available only OTC package	* S-size adapter is available only OTC package				

Front Derailleur

Series		ACERA	ACERA	ACERA	
Model no.		FD-T3000-2-TS3	FD-T3000-TS3	FD-T3000-TS6	
Color	1	Series color	Series color	Series color	
	2	-	-	-	
Front speeds		2	3	3	
Rear speeds		9	9	9	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	
Action	TOP SWING	✓	✓	✓	
	Down swing	-	-	-	
	SIDE SWING	-	-	-	
Mount	Clamp band (mm)	28.6	✓* (w/ S size adapter)	✓ (w/ S size adapter) ✓ (w/ S size adapter)	
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter) ✓ (w/ M size adapter)	
		34.9	✓	✓	✓
	E-type	With bottom bracket plate	-	-	-
		Without bottom bracket plate	-	-	-
	Direct mount	-	-	-	
Cable route type	Dual-pull	✓	✓	✓	
	Top-pull exclusive	-	-	-	
	Down-pull exclusive	-	-	-	
	Front-pull	-	-	-	
Chain line (mm)		48.8	50	50	
Chainstay angle (deg.)		63-68	63-66	66-69	
Top gear teeth		46T	44T/48T	44T/48T	
Total capacity		16T	22T	22T	
Applicable top-mid tooth difference		-	12T	12T	
Multi access cable fixing screw		-	-	-	
Angled stroke adjust screw		-	-	-	
Angled clamp band design		✓	✓	✓	
Link bushings		-	-	-	
Front clamp band	Material	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	
Bottom bracket plate	Material	-	-	-	
	Finish	-	-	-	
Outer link	Material	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	
Stroke adjusting screw	Material	Stainless steel	Steel	Steel	
	Finish	-	Zinc plated	Zinc plated	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	
Note		* S-size adapter is available only OTC package			

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Brake (V-BRAKE)

Series		DEORE	SHIMANO
Model no.		BR-T610	BR-T4000
Color	1	Black	Black
	2	-	Silver
	3	-	-
Brake type		V-BRAKE	V-BRAKE
Brake shoe	Standard 1	S70C	S65T
	Standard 2	M70CT4	-
	Option 1	S70T	M65T4
	Option 2	-	M65T3
Cartridge shoe holder		✓	-
Arch size (mm)		107	107
Spacer type	X type	✓	✓
	Y type	✓	✓
Compatible lead pipe angle (deg.)		45/90/135	45/90/135
Sleeve & bushing axle		✓	✓
V-arm/caliper	Material	Aluminum	Aluminum
	Finish	Anodized	Painted
	Light weight link	-	-
Cover	Material	Aluminum	-
	Finish	Painted	-
Fixing screw length (mm)	16	✓	✓
	25	✓	✓
Fixing screw	Material	Steel	Steel
	Finish	Plated	Zn plated
	Chamfered screw	✓	-
POWER MODULATOR		SM-PM70	SM-PM40
Linear spring		✓	✓
Stainless cable fixing screw		-	-
Average weight (g)		-	-
Note			



Crankset

Series		DEORE XT	DEORE	SHIMANO	SHIMANO	SHIMANO ALIVIO	SHIMANO
Model no.		FC-T8000	FC-T6010	FC-T551	FC-T521	FC-T4060	FC-T4010
Color	1	Series color	Series black	Black	Black	Black	Black
	2	-	-	Silver	Silver	Silver	-
Rear speeds		10	10	10	10	9	9
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG for 9-speed	HG for 9-speed
Chain line (mm)		50	50	50	50	50	50
P.C.D. (mm)		104/64	104/64	104/64	104/64	104/64	104/64
Spider/gear arms		4	4	4	4	4	4
Chainring combination		48-36-26T	48-36-26T	48-36-26T 44-32-24T	48-36-26T 44-32-24T	48-36-26T 44-32-22T	48-36-26T 44-32-22T
Q-factor (mm)		176	181.5	181.1	185.8	181.7	187.8
Crank arm length (mm)	165	-	-	-	-	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	✓	✓	✓	✓	✓	✓
	Without chain/bash guard	-	-	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	-	-	-	-
2-PIECE CRANKSET		-	-	✓	-	✓	-
HOLLOWTECH crank arm		-	-	-	✓	-	-
OCTALINK		-	-	-	✓	-	✓
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	-	✓	-
	OCTALINK	-	-	-	✓	-	✓
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-MT800	SM-BB52	SM-BB52	BB-ES300	SM-BB52	BB-ES300
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	SM-BB52	SM-BB52	BB-ES300-AK	SM-BB52	BB-ES300
	Press-Fit	BB-MT800-PA	BB-MT500-PA	-	-	-	-
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	121-AK	-	126
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	121-AK	-	126-K
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	-	Steel	-
	Finish	Plated	Plated	Plated	-	Plated	-
Spider arm	Material	Aluminum	Aluminum	-	Aluminum	-	Aluminum
	Finish	Painted	Painted	-	Painted	-	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Middle ring	Material	Aluminum	Steel	Aluminum (48-36-26T) Steel + GF composite (44-32-24T)	Steel (48-36-26T) Steel + GF composite (44-32-24T)	Steel	Steel
	Finish	Plated	Painted	Plated	Painted	Painted	Painted
Inner ring	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Painted	Plated	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	-	-	-	-	-
Inner ring fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	✓	✓	✓	✓	✓
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		868 (48-36-26T)	-	-	-	-	-
Note							

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Crankset

Series		SHIMANO
Model no.		FC-T3010
Color	1	Black
	2	Silver
Rear speeds		9
Compatible chain		HG for 9-speed
Chain line (mm)		50
P.C.D. (mm)		104/64
Spider/gear arms		4
Chaining combination		48-36-26T 44-32-22T
Q-factor (mm)		187.3
Crank arm length (mm)	165	✓
	167.5	-
	170	✓
	172.5	-
	175	✓
	177.5	-
	180	-
Optional chain guard	With bash guard	-
	With chain guard	✓
	Without chain/bash guard	✓
HOLLOWTECH II		-
2-PIECE CRANKSET		-
HOLLOWTECH crank arm		-
OCTALINK		-
HOLLOWGLIDE		-
Compatible bottom bracket type	Outboard	-
	OCTALINK	-
	Square	✓
Recommended bottom bracket	Threaded (normal)	BB-UN300
	Threaded (E-type)	-
	Threaded (chain case)	BB-UN300-K
	Press-Fit	-
Axle length of BB-UN/E5 (mm)	Threaded (normal)	LL123
	Threaded (E-type)	-
	Threaded (chain case)	LL123-K
Threaded bottom bracket shell width (mm)	68	✓
	73	✓
	83	-
Chain case compatible		✓
Crank arm	Material	Aluminum
	Finish	Painted
Crank axle	Material	-
	Finish	-
Spider arm	Material	-
	Finish	-
Spider arm cover	Material	-
	Finish	-
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
	Finish	-
Inner ring fixing screw	Material	Stainless steel
	Finish	-
Stainless chain guard fixing screw		- (48-36-26T) ✓ (44-32-22T)
Crank fixing screw included		✓
Average weight (g) (175 mm, w/o bottom bracket)		-
Note		

Front Hub (Rim/Disc Brake)

Series		DEORE	SHIMANO
Model no.		HB-T610	HB-T3000
Color	1 Hub shell	Black	Black
	1 Quick release	Black	Black
	2 Hub shell	-	Silver
	2 Quick release	-	Black
Brake type		Rim brake	Rim brake
O.L.D. (mm)		100	100
Spoke hole	28H	-	-
	32H	✓	✓
	36H	✓	✓
External serration disc brake rotor lock ring	With	-	-
	Without	-	-
CENTER LOCK mount cover option		-	-
Axle fixing method		Quick release	Quick release
Quick release skewer length (mm)	129	-	-
	133	✓	✓
Thru axle (length x inner diameter ; mm)	100 x 15	-	-
	110 x 15	-	-
	110 x 20	-	-
Flange distance (mm)		71.6	71.6
Offset (mm)		0	0
P.C.D. left / right (mm)		38/38	38/38
Flange diameter (mm)		48.4	48.4
Seal		Labyrinth & Contact	Contact
Internal grease sleeve		-	-
Bearing	Stainless ball	-	-
	Cup	-	-
	Cone	CBN	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Axle	Material	Steel	Steel
	Finish	-	-
Quick release lever	Material	Aluminum	Steel
	Finish	Painted	Plated
Quick release housing	Material	Aluminum	Steel
	Finish	Painted	Plated
Quick release nut	Material	Resin & steel	Resin & steel
	Finish	-	-
Average weight (g)		-	-
Note			

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FREEHUB (Rim/Disc Brake)

Series		DEORE	SHIMANO
Model no.		FH-T610	FH-T3000
Color	1 Hub shell	Black	Black
	1 Quick release	Black	Black
	2 Hub shell	-	Silver
	2 Quick release	-	Black
Brake type		Rim brake	Rim brake
Rear speeds		8-10-speed, MTB 11-speed	8-10-speed, MTB 11-speed
O.L.D. (mm)		135	135
Spoke hole	28H	-	-
	32H	✓	✓
	36H	✓	✓
External serration disc brake rotor lock ring	With	-	-
	Without	-	-
Internal serration disc brake rotor lock ring	With	-	-
	Without	-	-
CENTER LOCK mount cover option		-	-
Axle fixing method		Quick release	Quick release
Quick release skewer length (mm)	166	-	✓
	168	✓	-
	170	-	✓
	173	✓	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-
	135 x 12	-	-
	142 x 12	-	-
	148 x 12	-	-
	150 x 12	-	-
Flange distance (mm)		59.2	59.2
Offset (mm)		7.8	7.5
P.C.D. left / right (mm)		44/45	45/45
Flange diameter left / right (mm)		53.8	53.8
Seal	Hub	Labyrinth & Contact	Contact
	FREEHUB body	Contact	-
Internal grease sleeve		✓	-
Bearing	Stainless ball	-	-
	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 housing	Material	Aluminum	Steel
	Finish	Painted	Plated
Quick release nut	Material	Resin & Steel	Steel + Resin
	Finish	-	-
Disc brake rotor lock ring	Material	-	-
	Finish	-	-
Average weight (g) (w/o axle, quick release not lock ring)		-	-
Note			

GRAVEL/ADVENTURE

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Shift/Brake Lever (Hydraulic Disc Brake)

Series		GRX	GRX	GRX	GRX	GRX	GRX	
Model no.		ST-RX810-R	ST-RX810-L	ST-RX810-LA	ST-RX600-R	ST-RX600-L	ST-RX400-R	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Standard	Standard	Standard	Standard	Standard	Standard	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	Single lever for adjustable seat post	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shift lever	Front speeds	-	2	1	-	2	-	
	Rear speeds	11	-	-	11	-	10	
	Multi-bearing construction	-	-	-	-	-	-	
Brake lever	Brake hose (kit)		SM-BH90-JK-SSR	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
	Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
	Recommended brake caliper		BR-RX810	BR-RX810	BR-RX810	BR-RX810	BR-RX810	BR-RX400
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓	✓	✓	✓	✓
	Funnel bleeding		✓	✓	✓	✓	✓	✓
	Free stroke adjust		✓	✓	✓	-	-	-
SERVO WAVE		✓	✓	✓	-	-	-	
Clamp band	Diameter (mm)		23.8 - 24.2	23.8 - 24.2	23.8-24.2	23.8 - 24.2	23.8 - 24.2	
Bracket	Material		Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	
	Finish		-	-	-	-	-	
Brake lever	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish		Painted	Painted	Painted	Painted	Painted	
Clamp band	Material		Steel	Steel	Steel	Steel	Steel	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
		Rear derailleur side	OT-RS900	OT-RS900	-	OT-RS900	OT-RS900	
	Inner cable	Polymer-coated cable	✓	✓	-	-	-	
		OPTISLIC K	-	-	✓	✓	✓	
		SIL-TEC	-	-	-	-	-	
		Stainless	-	-	-	-	-	
Steel		-	-	-	-	-		
Average weight (g)		286	284	263	307	306	307	
Note								

Shift/Brake Lever (Hydraulic Disc Brake)

ST

BL

BL

RD

FD

BR

FC

WH

Series		GRX	
Model no.		ST-RX400-L	
Color	1	Series color	
	2	-	
Bracket cover color	1	Standard	
	2	-	
Shifter type		DUAL CONTROL LEVER	
Shift lever	Front speeds	2	
	Rear speeds	-	
	Multi-bearing construction	-	
Brake lever	Brake hose (kit)	SM-BH90-JK-SSR SM-BH90-J-SSR	
	Hose joint	Straight	
	Brake hose color (kit)	1	Black
		2	-
	Recommended brake caliper	BR-RX400	
	Oil	SHIMANO Mineral	
	Reach adjust	✓	
	Funnel bleeding	✓	
	Free stroke adjust	-	
	SERVO WAVE	-	
Clamp band	Diameter (mm)	23.8 - 24.2	
Bracket	Material	Engineering Composite	
	Finish	-	
Brake lever	Material	Aluminum	
	Finish	Painted	
Clamp band	Material	Steel	
Shift lever cable	Outer casing	Lever side	OT-SP41
		Rear derailleur side	OT-RS900
	Inner cable	Polymer-coated cable	-
		OPTISLICK	✓
		SIL-TEC	-
		Stainless	-
Steel	-		
Average weight (g)		306	
Note			

Brake Lever (Hydraulic Disc Brake)

Series		GRX	GRX
Model no.		BL-RX810-L	BL-RX600-L
Brake type		Hydraulic disc brake	Hydraulic disc brake
Color	1	Series color	Series color
	2	-	-
Bracket cover color	1	Standard	Standard
	2	-	-
Lever size (finger)		-	-
Brake hose (kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR
Hose joint		Straight	Straight
Recommended brake caliper		BR-RX810	BR-RX810
Oil		SHIMANO Mineral	SHIMANO Mineral
Reach adjust	Toolless	-	-
	Tool	✓	✓
Funnel bleeding		✓	✓
Free stroke adjust		✓	-
SERVO WAVE		✓	-
Brake hose color (kit)	1	Black	Black
	2	-	-
Clamp band	Open clamp	-	-
	I-SPEC	-	-
	Diameter (mm)	23.8-24.2	23.8-24.2
	Material	Steel	Steel
Bracket	Material	Engineering Composite	Engineering Composite
	Finish	-	-
Brake lever	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Master cylinder	Material	-	-
	Finish	-	-
Average weight (g)		222	227
Note			

Brake Lever (Sub Lever for Hydraulic Disc Brake)

Series		GRX	GRX
Model no.		BL-RX812-R	BL-RX812-L
Brake type		Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		1	1
Color	1	Neutral	Neutral
	2	-	-
	3	-	-
Brake hose (kit)		-	-
Hose joint		Straight	Straight
Brake hose color (kit)	1	Black	Black
	2	-	-
Recommended brake caliper		BR-RX810	BR-RX810
Oil		SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓
Reach adjust	Toolless	-	-
	Tool	✓	✓
Free stroke adjust		-	-
SERVO WAVE		-	-
Clamp band	New band	✓	✓
	I-SPEC B	-	-
	I-SPEC II	-	-
	Open clamp	-	-
Clamp screw	Material	Stainless steel	Stainless steel
	Finish	-	-
Brake lever	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Average weight (g)		79	79
Note		-	-

ST

BL

BL

RD

FD

BR

FC

WH

Rear Derailleur

Series		GRX	GRX	GRX
Model no.		RD-RX810	RD-RX812	RD-RX400
Pulley cage		-	-	-
Color	1	Series color	Series color	Series color
	2	-	-	-
Rear speeds		11	11	10
Compatible chain		HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11	HG-X 10-speed
Top-normal spring type	SHIMANO SHADOW RD	-	-	-
	SHIMANO SHADOW RD+	✓	✓	✓
	Double servo	-	-	-
Mount	Direct attachment (conventional)	✓	✓	✓
	Direct mount	✓	✓	✓
	Riveted adapter (road type)	-	-	-
	Riveted adapter (BMX-track type)	-	-	-
Cable adjuster		✓	✓	✓
Max. front difference		17T	-	16T
Total capacity		40T	31T	41T
Low sprocket	Max.	34T	42T	36T
	Min.	30T	40T	32T
Top sprocket	Max.	11T	11T	11T
	Min.	11T	11T	11T
Fluoric coated link bushings		4	4	4
Pulley	Guide pulley bearing	✓	✓	-
	Tension pulley bearing	✓	✓	-
	Teeth	13T	11T	11T
	Screws material	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw	✓	✓	✓
Bracket	Material	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Painted
B-axle	Hollow axle	✓	✓	✓
	Material	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-
B-axle 2	Hollow axle	-	-	-
	Material	Aluminum	Aluminum	Stainless steel
	Finish	Anodized	Anodized	-
Bracket body	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel
	Finish	-	-	-
Plate body	Material	GFRP	GFRP	GFRP
	Finish	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Inner link	Material	GFRP	Aluminum	GFRP
	Finish	-	Painted	-
Outer plate	Material	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted
Cable fixing screw	Material	Stainless steel	Stainless steel	Steel
	Finish	Passivation	Passivation	Plating
Stroke adjusting screw	Material	Steel	Steel	Steel
	Finish	Plating	Plating	Plating
Average weight (g)		255	267	303
Note		-	-	-

Front Derailleur

Series		GRX	GRX
Model no.		FD-RX810-F	FD-RX400-F
Color	1	Series color	Series color
	2	-	-
Front speeds		2	2
Rear speeds		11	10
Compatible chain		HG-EV 11-speed HG-X11	HG-X 10-speed
Action	TOP SWING	-	-
	Down swing	✓	✓
Mount	Clamp band (mm)	28.6	-
		31.8	-
		34.9	-
	Brazed-on	✓	✓
Cable adjust		✓	✓
Cable route type	Top-pull exclusive	-	-
Chain line (mm)		47	47
Chainstay angle (deg.)		61-66	61-66
Top gear teeth		46-48T	46T
Total capacity		17T	16T
Applicable top-mid tooth difference		-	-
Angled clamp band design		-	-
Multi-bearing construction		-	-
Link bushings		7	7
Front clamp band	Material	-	-
	Finish	-	-
Rear clamp band, base bracket	Material	-	-
	Finish	-	-
Outer link	Material	GFRP	GFRP
	Finish	Painted	Painted
Inner link	Material	Aluminum	Steel
	Finish	Plated	Plated
Chain guide	Material	Steel	Steel
	Finish	Chrome plated	Chrome plated
Cable fixing screw	Material	Stainless steel	Stainless steel
	Finish	-	-
Stroke adjusting screw	Material	Steel	Steel
	Finish	Black	Black
Average weight (g) (band type: L size, direct type: w/ screw)		96	96
Note			

ST

BL

BL

RD

FD

BR

FC

WH

Brake (Hydraulic Disc Brake)

Series		GRX	GRX	GRX	GRX
Model no.		BR-RX810-F	BR-RX810-R	BR-RX400-F	BR-RX400-R
Color	1	Series color	Series color	Series color	Series color
	2	-	-	-	-
	3	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (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 (kit)	1	Black	Black	Black	Black
	2	-	-	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	✓	✓	✓
Pad	Standard 1	K03S Resin	K03S Resin	K03S Resin	K03S Resin
	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
Fixing screw spec for rear mount	10 mm mount	-	✓	-	✓
	15 mm mount	-	✓	-	✓
	20 mm mount	-	✓	-	✓
	25 mm mount	-	✓	-	✓
	30 mm mount	-	✓	-	✓
	35 mm mount	-	✓	-	✓
Recommended brake lever		ST-RX810 BL-RX810 ST-RX815	ST-RX810 BL-RX810 ST-RX815	ST-RX400	ST-RX400
Recommended disc brake rotor		SM-RT800 RT-MT800	SM-RT800 RT-MT800	SM-RT64	SM-RT64
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	✓	✓
Mount type		Flat mount	Flat mount	Flat mount	Flat mount
Piston		2	2	2	2
Piston material		Ceramic	Ceramic	Resin	Resin
Caliper	MONO-BODY	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel
	Tool size	4 mm	4 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, snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		148	138	-	-
Note		Front spec with adaptor	Front spec with adaptor	Front spec with adaptor	Front spec with adaptor

Crankset

Series		GRX	GRX	GRX	GRX	GRX
Model no.		FC-RX810-2	FC-RX810-1	FC-RX600-11	FC-RX600-10	FC-RX600-1
Color	1	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-
Rear speeds		11	11	11	10	11
Compatible 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 line (mm)		47	49.7	47	47	49.7
P.C.D. (mm)		110/80	110	110/80	110/80	110
Spider/gear arms		4	4	4	4	4
Chaining combination		48-31T	42T/40T	46-30T	46-30T	40T
Q-factor (mm)		151	151	151	151	151
Crank arm length (mm)	165	-	-	✓	✓	✓
	167.5	-	-	-	-	-
	170	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	✓	✓
	175	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	-	-	-
2-PIECE CRANKSET		-	-	✓	✓	✓
HOLLOWTECH crank arm		✓	✓	-	-	-
OCTALINK		-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-
	Square	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BBR60	SM-BBR60	BB-RS500	BB-RS500	BB-RS500
	Press-Fit	SM-BB72	SM-BB72	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized (teeth), Painted (body)	Anodized	Anodized	Anodized (teeth), Painted (body)
Middle ring	Material	-	-	-	-	-
	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
	Finish	Anodized	Anodized	-	-	-
Inner ring fixing screw	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		710	656 (42T) 644 (40T)	806	810	743
Note		-	-	-	-	-

ST

BL

BL

RD

FD

BR

FC

WH

Wheel (Disc Brake)

Series		GRX	GRX	GRX	GRX
Model no.		WH-RX570-TL-F12-700C	WH-RX570-TL-F12-650B	WH-RX570-TL-R12-700C	WH-RX570-TL-R12-650B
Model name		WH-RX570-TL	WH-RX570-TL	WH-RX570-TL	WH-RX570-TL
Specification		F12-700C	F12-650B	R12-700C	R12-650B
Color	1 Hub shell	Black	Black	Black	Black
	1 Quick release	-	-	-	-
	2 Hub shell	-	-	-	-
	2 Quick release	-	-	-	-
Front/Rear		Front	Front	Rear	Rear
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		-	-	Road 11/10-speed	Road 11/10-speed
O.L.D. (mm)		100	100	142	142
Wheel size		622 x 21C (700C)	584 x 21C (650B = 27.5 inch)	622 x 21C (700C)	584 x 21C (650B = 27.5 inch)
Rim	Height (mm)	22	22	22	22
	Internal width (mm)	21.6	21.6	21.6	21.6
	External width (mm)	-	-	-	-
	Rim joint	Welded	Welded	Welded	Welded
	Brazed reinforcement	-	-	-	-
	OFFSET RIM	✓	✓	✓	✓
Requires rim tape		✓	✓	✓	✓
Spokes	Number	24	24	24	24
	Straight pull	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓
	Butted	-	-	-	-
	Diameter	2	2	2	2
Axle fixing method		E-THRU	E-THRU	E-THRU	E-THRU
Quick release skewer length (mm)	133	-	-	-	-
	163	-	-	-	-
	168	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 12	✓	✓	-	-
	142 x 12	-	-	✓	✓
Spline type	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-
	HG spline L (ROAD 11/12-speed)	-	-	✓	✓
Engagement type		-	-	Pawl ratchet	Pawl ratchet
Bearing	Stainless ball	-	-	-	-
	Cup	Polish	Polish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish
Disc mount	CENTER LOCK	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-
	140 mm disc brake rotor compatible	✓	✓	✓	✓
OPTBAL (2:1)		-	-	-	-
D2 rim		-	-	-	-
Digital adjustment system		-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact
	FREEHUB body	-	-	Contact	Contact
Internal grease sleeve		✓	✓	✓	✓
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	32-622 - 42-622	38-584 - 53-584	32-622 - 42-622	38-584 - 53-584
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized, Painted	Anodized, Painted	Anodized, Painted	Anodized, Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black	Black	Black	Black
FREEHUB body	Material	-	-	Steel	Steel
	Finish	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	-	-	-
Quick release lever	Material	-	-	-	-
	Finish	-	-	-	-
Quick release housing	Material	-	-	-	-
	Finish	-	-	-	-
Quick release nut	Material	-	-	-	-
	Finish	-	-	-	-
Compatible spoke protector		-	-	CP-FH08 (23-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 10/11-speed)	CP-FH08 (23-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 10/11-speed)
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW 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 SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		769	737	951	920
Note					

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Shift/Brake Lever (Hydraulic Disc Brake)	129	ST
Shift Lever	132	SL
Brake Lever	136	BL
Brake Lever (Hydraulic Disc Brake)	138	BL
Brake (Hydraulic Disc Brake)	139	BR
Brake (Caliper Brake)	142	BR
Brake (Mechanical Disc Brake)	147	BR
Brake (V-BRAKE)	148	BR
Brake (Cantilever Brake)	148	BR
Brake Cable	148	BC
Rear Derailleur	149	RD
Front Derailleur	153	FD
Crankset	158	FC
Crankset (Power Meter)	163	FC
Bottom Bracket (HOLLOWTECH II)	164	BB
Bottom Bracket	164	BB
Cassette Sprocket	165	CS
Front Hub (Rim/Disc Brake)	168	HB
FREEHUB (Rim/Disc Brake)	170	FH
Wheel (Rim Brake)	172	WH
Wheel (Disc Brake)	176	WH
Head Parts	181	HP

Shift/Brake Lever

Series		DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	
Model no.		ST-R9100-R	ST-R9100-L	ST-9001	ST-R8000-R	ST-R8000-L	ST-6800	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shift lever	Front speeds	-	2	2	-	2	2	
	Rear speeds	11	-	11	11	-	11	
	Multi-bearing construction	R:4 L:4	R:4 L:4	R:4 L:4	*	*	- *	
Brake lever	Reach adjust	Screw	Screw	Screw	Screw	Screw	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	
	SLR-EV	✓	✓	✓	✓	✓	✓	
	NEW SUPER SLR	-	-	-	-	-	-	
	SUPER SLR	-	-	-	-	-	-	
Bracket	Material	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP	
	Finish	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP	
Brake lever	Material	Carbon	Carbon	Carbon	CFRP	CFRP	CFRP	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
		Rear derailleur side	OT-RS900	OT-RS900	OT-SP41 Sealed	OT-RS900	OT-RS900	OT-SP41 Sealed
	Inner cable	Polymer-coated cable	✓	✓	✓	✓	✓	✓
		OPTISLIC K	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
Steel	-	-	-	-	-	-		
Average weight (g)		365 (/pair)	365 (/pair)	365 (/pair)	220	218	425 (/pair)	
Note					* Use bush	* Use bush	* Use bush	

Shift/Brake Lever

Series		SHIMANO 105	SHIMANO 105	SHIMANO 105	TIAGRA	TIAGRA	TIAGRA	
Model no.		ST-R7000-R	ST-R7000-L	ST-5800	ST-4700-R	ST-4700-L	ST-4703-L	
Color	1	Silky black	Silky black	Black	Series color	Series color	Series color	
	2	Spark silver	Spark silver	Silver	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shift lever	Front speeds	-	2	2	-	2	3	
	Rear speeds	11	-	11	10	-	-	
	Multi-bearing construction	0	0	0	0	0	0	
Brake lever	Reach adjust	Screw	Screw	Screw	screw	Screw	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	
	SLR-EV	✓	✓	✓	✓	✓	✓	
	NEW SUPER SLR	-	-	-	-	-	-	
	SUPER SLR	-	-	-	-	-	-	
Bracket	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
	Finish	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
		Rear derailleur side	OT-RS900	OT-RS900	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
Steel	-	-	-	-	-	-		
Average weight (g)		251	249	486 (/pair)	-	-	-	
Note		-	-	-	-	-	-	

ST

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HP

Shift/Brake Lever

Series		SHIMANO	SORA	SORA	SORA	SHIMANO	CLARIS	
Model 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	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shift lever	Front speeds	2	-	2	3	3	-	
	Rear speeds	10	9	-	-	-	8	
	Multi-bearing construction	-	0	0	0	-	-	
Brake lever	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	
	SLR-EV	-	-	-	-	-	-	
	NEW SUPER SLR	✓	✓	✓	✓	✓	✓	
	SUPER SLR	-	-	-	-	-	-	
Bracket	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
	Finish	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
		Rear derailleur side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLIC K	-	✓	✓	✓	-	✓
		SIL-TEC	-	-	-	-	✓	-
		Stainless	✓	✓	✓	✓	✓	-
Steel	-	-	-	-	-	✓		
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			

Shift/Brake Lever

Series		CLARIS	CLARIS	CLARIS	CLARIS	CLARIS	TOURNEY	
Model 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	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	DUAL CONTROL LEVER	
Shift lever	Front speeds	2	3	-	2	3	2	
	Rear speeds	-	-	8	-	-	7	
	Multi-bearing construction	-	-	-	-	-	-	
Brake lever	Reach adjust	Screw	Screw	✓	✓	✓	Screw	
	Clamp band (mm)	23.8 - 24.2	23.8 - 24.2	22.2	22.2	22.2	23.8 - 24.2	
	SLR-EV	-	-	-	-	-	-	
	NEW SUPER SLR	✓	✓	-	-	-	-	
	SUPER SLR	-	-	✓	✓	✓	✓	
Bracket	Material	GFRP	GFRP	Aluminum	Aluminum	Aluminum	GFRP	
	Finish	GFRP	GFRP	Painted	Painted	Painted	GFRP	
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40	
		Rear derailleur side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SIS40
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLIC K	✓	✓	✓	✓	✓	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	✓*
Steel	✓	✓	✓	✓	✓	-		
Average weight (g)		-	-	-	-	-	-	
Note							* Option	

ST

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Shift/Brake Lever

Series		TOURNEY	
Model no.		ST-A073-L	
Color	1	Series color	
	2	-	
Shifter type		DUAL CONTROL LEVER	
Shift lever	Front speeds	3	
	Rear speeds	-	
	Multi-bearing construction	-	
Brake lever	Reach adjust	Screw	
	Clamp band (mm)	23.8 - 24.2	
	SLR-EV	-	
	NEW SUPER SLR	-	
	SUPER SLR	✓	
Bracket	Material	GFRP	
	Finish	GFRP	
Brake lever	Material	Aluminum	
	Finish	Painted	
Shift lever cable	Outer casing	Lever side	OT-SIS40
		Rear derailleur side	OT-SIS40
	Inner cable	Polymer-coated cable	-
		OPTISLIC K	-
		SIL-TEC	-
		Stainless	✓ *
		Steel	-
Average weight (g)		-	
Note		* Option	

ARCHIVE

Shift/Brake Lever (Hydraulic Disc Brake)

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	
Model no.		ST-R9120-R	ST-R9120-L	ST-R8020-R	ST-R8020-L	ST-R8025-R	ST-R8025-L	
Color	1	Series color	Series color	Series color	Series color	Black	Black	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shift lever	Front speeds	-	2	-	2	-	2	
	Rear speeds	11	-	11	-	11	-	
	Multi-bearing construction	-	-	-	-	-	-	
Brake lever	Brake hose (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	
	Hose joint	Straight	Straight	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
	Recommended brake caliper	BR-R9170	BR-R9170	BR-R8070	BR-R8070	BR-R8070	BR-R8070	
	Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	
	Reach adjust	✓	✓	✓	✓	✓	✓	
	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	
	Funnel bleeding	✓	✓	✓	✓	✓	✓	
	Free stroke adjust	✓	✓	✓	✓	✓	✓	
SERVO WAVE	✓	✓	✓	✓	✓	✓		
Bracket	Material	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	
	Finish	-	-	-	-	-	-	
Brake lever	Material	CFRP	CFRP	Engineering Composite	Engineering Composite	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp band	Material	Titanium	Titanium	Steel	Steel	Steel	Steel	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
		Rear derailleur side	OT-RS900	OT-RS900	OT-RS900	OT-RS900	OT-RS900	
	Inner cable	Polymer-coated cable	✓	✓	✓	✓	✓	✓
		OPTISLIC K	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
Steel	-	-	-	-	-	-		
Average weight (g)		538 (/pair)	538 (/pair)	554 (/pair)	554 (/pair)	568 (/pair)	568 (/pair)	
Note						For small hand.	For small hand.	

Shift/Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	TIAGRA	TIAGRA
Model no.		ST-R7020-R	ST-R7020-L	ST-R7025-R	ST-R7025-L	ST-4720-R	ST-4720-L
Color	1	Silky Black	Silky Black	Silky Black	Silky Black	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds	-	2	-	2	-	2
	Rear speeds	11	-	11	-	10	-
	Multi-bearing construction	-	-	-	-	-	-
Brake lever	Brake hose (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	SM-BH90-J-SSR SM-BH90-JK-SSR
	Hose joint		Straight	Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black	Black
		2	-	-	-	-	-
	Recommended brake caliper		BR-R7070	BR-R7070	BR-R7070	BR-R7070	BR-4770
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓	✓	✓	✓
	Clamp band (mm)		23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
	Funnel bleeding		✓	✓	✓	✓	✓
	Free stroke adjust		-	-	-	-	-
	SERVO WAVE		-	-	-	-	-
Bracket	Material	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	
	Finish	-	-	-	-	-	
Brake lever	Material	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	
	Finish	Painted	Painted	Painted	Painted	Painted	
Clamp band	Material	Steel	Steel	Steel	Steel	Steel	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
		Rear derailleur side	OT-RS900	OT-RS900	OT-RS900	OT-SP41	
	Inner cable	Polymer-coated cable	-	-	-	-	
		OPTISLICK	✓	✓	✓	✓	
		SIL-TEC	-	-	-	-	
		Stainless	-	-	-	-	
Steel	-	-	-	-			
Average weight (g)		610 (/pair)	610 (/pair)	619 (/pair)	619 (/pair)	-	
Note		-	-	For small hand.	For small hand.	-	

Shift/Brake Lever (Hydraulic Disc Brake)

Series		TIAGRA	TIAGRA	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-4725-R	ST-4725-L	ST-RS685-R	ST-RS685-L	ST-RS405-R	ST-RS405-L	
Color	1	Series color	Series color	Series color	Series color	Dark Gray	Dark Gray	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shift lever	Front speeds	-	2	-	2	-	2	
	Rear speeds	10	-	11	-	10	10	
	Multi-bearing construction	-	-	-	-	-	-	
Brake lever	Brake hose (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
	Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	White	White	-	-
	Recommended brake caliper		BR-4770	BR-4770	BR-RS785	BR-RS785	BR-RS405	BR-RS405
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓	✓	✓	✓	✓
	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
	Funnel bleeding		✓	✓	✓	✓	✓	✓
	Free stroke adjust		-	-	✓	✓	-	-
SERVO WAVE		-	-	✓	✓	-	-	
Bracket	Material	Engineering Composite	Engineering Composite	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	-	-	Painted	Painted	Painted	Painted	
Brake lever	Material	Aluminum	Aluminum	Engineering Composite	Engineering Composite	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
	Inner cable	Polymer-coated cable	-	-	✓	✓	-	-
		OPTISLIC K	✓	✓	-	-	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
Steel	-	-	-	-	-	-		
Average weight (g)		-	-	649 (/pair)	649 (/pair)	-	-	
Note		For small hand.	For small hand.					

Shift Lever

Series		DURA-ACE	SHIMANO	DURA-ACE	TIAGRA	TIAGRA	TIAGRA
Model no.		SL-BSR1	SL-R5700	SL-7900	SL-4700	SL-4703	SL-4603
Color	1	Series color	Black	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		Bar end Shifter	RAPIDFIRE PLUS	Down Tube Shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2	2	2/3	2	3	3
Rear speeds		11	11	10	10	-	-
Compatible rear derailleur type		ROAD 11-speed	ROAD 11-speed	ROAD 10-speed	RD-4700	RD-4700	-
Mount type	Clamp band	-	✓	-	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever cable adjust		-	✓	-	✓	✓	✓
Max. multiple shifts (main lever/rear)		-	4	-	4	-	-
Release function	MULTI RELEASE	-	*✓ (Right) / - (Left)	-	-	-	-
	INSTANT RELEASE	-	✓	-	✓ (rear)	-	-
	2-WAY RELEASE	-	✓	-	✓	✓	✓
OPTICAL GEAR DISPLAY	With	-	-	-	✓	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	✓	✓	✓	-	-	-
Multi-bearing construction		-	R:2 L:2	-	R:2 L:2	2	2
Shift lever bracket	Material	-	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	-	Painted	-	Painted	Painted	Painted
Clamp screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Main lever body	Material	Aluminum	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Coated	Painted	Clear Coated	Painted	Painted	Painted
Release lever body	Material	-	GFRP & Steel	-	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	-	-	-	-	-
		SIL-TEC	✓	✓	✓	-	-
		Stainless	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		153 (/pair)	210 (/pair)	63 (/pair)	-	-	-
Note			* Pull: single Push: double				

Shift Lever

Series		SHIMANO	DURA-ACE	SORA	SORA	SORA	SHIMANO
Model 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
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	Down Tube Shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2	2/3	-	2	3	-
Rear speeds		10	9	9	-	-	9
Compatible rear derailleur type		ROAD 10-speed	ROAD 9-speed	RD-R3000	FD-R3000	FD-R3030	ROAD 9-speed
Mount type	Clamp band	✓	-	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever cable adjust		✓	-	✓	✓	✓	✓
Max. multiple shifts (main lever/rear)		4	-	3	-	-	3
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	✓ (right side)	-	-	-	-	-
	2-WAY RELEASE	✓	-	✓	✓	✓	✓
OPTICAL GEAR DISPLAY	With	✓	-	✓	✓	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	-	✓	-	-	-	-
Multi-bearing construction		R:2 L:2	-	-	-	-	-
Shift lever bracket	Material	Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	-	Painted	Painted	Painted	Painted
Clamp screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Clear Coated	Painted	Painted	Painted	Painted
Release lever body	Material	Resin & Steel	-	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	-	-	✓	✓	✓
		SIL-TEC	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		-	-	-	-	-	-
Note		SHIMANO logo	-	-	-	-	SHIMANO logo

Shift Lever

Series		SHIMANO	CLARIS	CLARIS	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	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Down Tube Shifter	Handle Bar Mount Shifter
Front speeds		3	-	2	3	2/3	-
Rear speeds		-	8	-	-	8	7
Compatible rear derailleur type		-	ROAD 8-speed	-	-	ROAD 8-speed	ROAD 7-speed
Mount type	Clamp band	✓	✓	✓	✓	-	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever cable adjust		✓	✓	✓	✓	-	-
Max. multiple shifts (main lever/rear)		-	3	-	-	-	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	✓	-	-
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	-	-
	With (removable)	-	-	-	-	-	-
	Without	-	-	-	-	✓	✓
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	Steel
	Finish	Painted	Painted	Painted	Painted	-	Zinc plated
Clamp screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Main lever body	Material	Aluminum	Resin & Steel	Resin & Steel	Resin & Steel	Aluminum	Resin
	Finish	Painted	-	-	-	Painted	-
Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	-	Resin
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	-	✓	✓	✓	-
		SIL-TEC	-	-	-	-	-
		Stainless	✓	-	-	-	✓
		Steel	-	✓	✓	✓	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40
Average weight (g)		-	-	-	-	-	-
Note		SHIMANO logo					

Shift Lever

Series		SHIMANO A050	SHIMANO	SHIMANO
Model no.		SL-A050-LN	SL-SY20A-7	SL-SY20A-6
Color	1	Series color	Series color	Series color
	2	-	-	-
Shifter type		Handle Bar Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter
Front speeds		2 (Friction)	2 (Friction)	2 (Friction)
Rear speeds		-	7	6
Compatible rear derailleur type		-	ROAD 7-speed	ROAD 6-speed
Mount type	Clamp band	✓	-	-
	I-SPEC B	-	-	-
	I-SPEC II	-	-	-
Shift lever position adjust		-	-	-
Shift lever cable adjust		-	-	-
Max. multiple shifts (main lever/rear)		-	-	-
Release function	MULTI RELEASE	-	-	-
	INSTANT RELEASE	-	-	-
	2-WAY RELEASE	-	-	-
OPTICAL GEAR DISPLAY	With	-	-	-
	With (removable)	-	-	-
	Without	✓	✓	✓
Multi-bearing construction		-	-	-
Shift lever bracket	Material	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated
Clamp screw	Material	-	-	-
	Finish	-	-	-
Main lever body	Material	Resin	Resin	Resin
	Finish	-	-	-
Release lever body	Material	Resin	Resin	Resin
	Finish	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-
		OPTISLIC K	-	-
		SIL-TEC	-	-
		Stainless	-	-
		Steel	✓	✓
Recommended shift lever outer casing		OT-SIS40	OT-SIS40	OT-SIS40
Average weight (g)		-	-	-
Note			Stem and brazed on, band types are available	Stem and brazed on, band types are available

Brake Lever

Series		DURA-ACE	TIAGRA	SORA	CLARIS	SHIMANO	SHIMANO	
Model no.		BL-TT79	BL-4700	BL-R3000	BL-R2000	BL-R780	BL-R550	
Color	1	Black	Series color	Series color	Series color	Silver	Silver	
	2	-	-	-	-	Black	Black	
	3	-	-	-	-	-	-	
Compatible brake type	V-BRAKE	-	✓	✓	✓	✓	-	
	Mechanical disc brake (Road)	✓	✓	✓	✓	✓	✓	
	Caliper (NEW SUPER SLR)	✓	✓	✓	✓	✓	-	
	Caliper (SUPER SLR)	-	-	-	-	-	✓	
	Cantilever brake	✓	✓	✓	✓	✓	✓	
	Roller brake	-	-	-	-	-	-	
Recommended POWER MODULATOR	V-BRAKE	-	-	-	-	-	-	
	Mechanical disc brake (MTB)	-	-	-	-	-	-	
Clamp band	Open clamp band	-	-	-	-	-	-	
	I-SPEC	-	-	-	-	-	-	
	Diameter (mm)	*	22.2	22.2	22.2	22.2	22.2	
Internal bumper stop		-	✓	✓	✓	✓	-	
Lever size (finger)		-	2.5	2.5	2.5	2.5	2.5	
Brake cable type		-	T-type	T-type	T-type	T-type	T-type	
Power adjuster		-	-	-	-	-	-	
SERVO WAVE		-	-	-	-	-	-	
Reach adjust		✓	✓	✓	✓	✓	✓	
Cable adjust		-	✓	✓	✓	✓	✓	
Cable adjust type		-	Two hand	Two hand	Two hand	Two hand	Two hand	
Brake lever	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Anodized	Anodized	anodized	Anodized	Anodized	
Brake bracket	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Average weight (g)		89 (/pair)	-	-	-	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

Series		SHIMANO
Model no.		BL-R400
Color	1	Series color
	2	-
	3	-
Compatible brake type	V-BRAKE	-
	Mechanical disc brake (Road)	-
	Caliper (NEW SUPER SLR)	-
	Caliper (SUPER SLR)	✓
	Cantilever brake	-
	Roller brake	-
Recommended POWER MODULATOR	V-BRAKE	-
	Mechanical disc brake (MTB)	-
Clamp band	Open clamp band	-
	I-SPEC	-
	Diameter (mm)	23.8-24.2
Internal bumper stop		-
Lever size (finger)		-
Brake cable type		-
Power adjuster		-
SERVO WAVE		-
Reach adjust		-
Cable adjust		-
Cable adjust type		-
Brake lever	Material	Aluminum
	Finish	Barrel
Brake bracket	Material	Aluminum
	Finish	Anodized
Average weight (g)		-
Note		

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Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO
Model no.		BL-RS600
Brake type		Hydraulic disc brake
Lever size (finger)		3
Color	1	Black
	2	-
	3	-
Brake hose (kit)		SM-BH59-JK-SS
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
J-Kit spec (for OEM)		✓
SERVO WAVE		-
Reach adjust	Toolless	-
	Tool	✓
Free stroke adjust		-
Compatible shift lever mount	Clamp band	✓
	I-SPEC B	-
	I-SPEC II	✓
Clamp band	Open clamp	✓
	Diameter (mm)	22.2
Recommended brake caliper		BR-RS405
Oil		SHIMANO Mineral
Funnel bleeding		✓
Clamp screw	Material	Stainless steel
	Finish	-
Bracket	Material	-
	Finish	-
Brake lever	Material	Aluminum
	Finish	Anodized
Master cylinder	Material	Aluminum
	Finish	Painted
Average weight (g)		
Note		

Brake (Hydraulic Disc Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		BR-R9270	BR-R9170-F	BR-R9170-R	BR-R8170	BR-R8070-F	BR-R8070-R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-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	-	-	-	-	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	✓	✓	✓	✓	✓
Pad	Standard 1	K03Ti Resin	K02Ti Resin K03Ti Resin	K02Ti Resin K03Ti Resin	K03S Resin	K02S Resin K03S Resin	K02S Resin K03S Resin
	Standard 2	L03A Resin	L02A Resin L03A Resin	L02A Resin L03A Resin	L03A Resin	L02A Resin L03A Resin	L02A Resin L03A Resin
	Option 1	K04Ti Metal	K04Ti Metal	K04Ti Metal	L04C Metal	K04S Metal	K04S Metal
	Option 2	L04C Metal	L04C Metal	L04C Metal	-	L04C Metal	L04C Metal
Fixing screw spec for rear mount	10 mm mount	✓	-	-	✓	-	✓
	15 mm mount	✓	-	-	✓	-	✓
	20 mm mount	✓	-	✓	✓	-	✓
	25 mm mount	✓	-	✓	✓	-	✓
	30 mm mount	✓	-	✓	✓	-	✓
	35 mm mount	✓	-	-	✓	-	✓
	15.2 mm	-	-	-	-	-	-
	18.7 mm	-	-	-	-	-	-
Recommended brake lever		ST-R9270 ST-R9180	ST-R9180 ST-R9170 ST-R9120	ST-R9180 ST-R9170 ST-R9120	ST-R8170	ST-R8070 ST-R8020	ST-R8070 ST-R8020
Recommended disc brake rotor		RT-MT900	SM-RT900	SM-RT900	RT-MT800	SM-RT800	SM-RT800
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓	✓
Mount type		Flat mount	Flat mount	Flat mount	Flat mount	Flat mount	Flat mount
Piston		2	2	2	2	2	2
Piston material		Resin	Ceramic	Ceramic	Resin	Ceramic	Ceramic
Caliper	MONO-BODY	✓	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodizing	Anodizing	Anodizing	Painting	Anodizing	Anodizing
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, snap ring	Bolt fix pin	Bolt fix pin, snap ring	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)		120 (Front) 110 (Rear)	133 (/pc)	123 (/pc)	146 (Front) 136 (Rear)	148 (/pc)	138 (/pc)
Note							

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Brake (Hydraulic Disc Brake)

Series		SHIMANO 105	SHIMANO 105	TIAGRA	TIAGRA	SHIMANO	SHIMANO
Model no.		BR-R7070-F	BR-R7070-R	BR-4770-F	BR-4770-R	BR-RS785	BR-RS405-F
Color	1	Silky black	Silky black	Series color	Series color	Series color (ULTEGRA)	Dark Gray
	2	Spark silver	Spark silver	-	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-JK-SSR SM-BH90-J-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	White	-
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	✓	-	-	✓	✓
Pad	Standard 1	K02S Resin K03S Resin	K02S Resin K03S Resin	K03S Resin	K03S Resin	J02A Resin	K02S Resin K03S Resin
	Standard 2	L02A Resin L03A Resin	L02A Resin L03A Resin	K04S Metal	K04S Metal	J04C Metal	-
	Option 1	K04S Metal	K04S Metal	L03A-R	L03A-R	G02A Resin	L02A Resin L03A Resin
	Option 2	L04C Metal	L04C Metal	-	-	-	-
Fixing screw spec for rear mount	10 mm mount	-	✓	-	✓	-	-
	15 mm mount	-	✓	-	✓	-	-
	20 mm mount	-	✓	-	✓	-	-
	25 mm mount	-	✓	-	✓	-	-
	30 mm mount	-	✓	-	✓	-	-
	35 mm mount	-	✓	-	✓	-	-
	15.2 mm	-	-	-	-	-	-
18.7 mm	-	-	-	-	✓	-	
Recommended brake lever		ST-R7020 ST-R7025	ST-R7020 ST-R7025	ST-4720 ST-4725	ST-4720 ST-4725	ST-R8070	ST-R5405 BL-R5600
Recommended disc brake rotor		SM-RT70	SM-RT70	SM-RT64	SM-RT64	SM-RT99	SM-RT70
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓	✓
Mount type		Flat mount	Flat mount	Flat mount	Flat mount	Post-mount	Flat mount
Piston		2	2	2	2	2	2
Piston material		Ceramic	Ceramic	Resin	Resin	Ceramic	Resin
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	4 mm	4 mm	4 mm	4 mm	5 mm	4 mm
	Anti loosen method	Bolt fix pin, snap ring	Bolt fix pin	Bolt fix pin, snap ring	Bolt fix pin	Snap ring	Bolt fix pin, snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		147 (/pc)	138 (/pc)	-	-	271 (/pair)	-
Note		-	-	-	-	-	-

Brake (Hydraulic Disc Brake)

Series		SHIMANO
Model no.		BR-RS405-R
Color	1	Dark Gray
	2	-
	3	-
Brake type		Hydraulic disc brake
Brake hose (kit)		SM-BH59-J-SS SM-BH59-JK-SS
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
J-Kit spec (for OEM)		✓
ICE TECHNOLOGIES pad compatible caliper		✓
Pad	Standard 1	K02S Resin K03S Resin
	Standard 2	-
	Option 1	L02A Resin L03A Resin
	Option 2	-
Fixing screw spec for rear mount	10 mm mount	✓
	15 mm mount	✓
	20 mm mount	✓
	25 mm mount	✓
	30 mm mount	✓
	35 mm mount	✓
	15.2 mm	-
	18.7 mm	-
Recommended brake lever		ST-RS405 BL-RS600
Recommended disc brake rotor		SM-RT70
Oil		SHIMANO Mineral
ONE WAY BLEEDING		✓
Mount type		Flat mount
Piston		2
Piston material		Resin
Caliper	MONO-BODY	-
	Material	Aluminum
	Finish	Painted
Caliper fixing bolt	Material	Steel
	Tool size	4 mm
	Anti loosen method	Bolt fix pin
Pad mount		Pad axle
Average weight (g)		-
Note		

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Brake (Caliper Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.		BR-R9200	BR-R9210-F	BR-R9210-R5	BR-R9100	BR-R9110-F	BR-R9110-R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Type		SLR-EV Dual Pivot	Direct mount type	Direct mount type	SLR-EV Dual Pivot	Direct mount type	Direct mount type
Reach (mm)		51	51	51	51	51	51
Brake shoe	Standard	R55C4	R55C4	R55C4	R55C4	R55C4	R55C4
	Optional 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
Compatibility		SLR-EV	SLR-EV	SLR-EV	SLR-EV	SLR-EV	SLR-EV
Assembly pivot nut (mm)	Front (mm)	10.5	✓	-	-	✓	-
		12.5	✓	-	-	✓	-
		18.0	✓	-	-	✓	-
		27.0	✓	-	-	✓	-
		32.0	✓	-	-	✓	-
	Rear (mm)	10.5	✓	-	-	✓	-
Cartridge shoe holder		✓	✓	✓	✓	✓	✓
Tire guide bumpers		✓	✓	✓	✓	✓	✓
Quick release lever		✓	✓	✓	✓	✓	-
Shoe angle adjusting		✓	✓	✓	✓	✓	✓
Spring tension adjusting		-	-	-	-	-	✓
Maximum tire size		28C	28C	28C	28C	28C	28C
Rim width		20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm
Cartridge shoe holder	Material	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Material	Aluminum	-	-	Aluminum	-	-
	Finish	Anodized	-	-	Anodized	-	-
Quick release lever	Material	Resin	Resin	Resin	Resin	Resin	-
	Finish	Painted	Painted	Painted	Painted	Painted	-
Titanium cable fixing bolt		✓	✓	✓	✓	✓	✓
Titanium pivot bolt		✓	✓ (fixing bolt)	✓ (fixing bolt)	✓	✓ (fixing bolt)	✓ (fixing bolt)
Average weight (g)		327 (/pair)	156 (/pc)	154 (/pc)	326 (/pair)	150 (/pc)	139 (/pc)
Note							Need inline cable adjuster (SM-CB90) for cable adjusting and quick release feature.

Brake (Caliper Brake)

Series		DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	SHIMANO	ULTEGRA
Model no.		BR-R9110-RS	BR-R8100	BR-R8110-F	BR-R8110-RS	BR-RS811-R	BR-R8000
Color	1	Series color	Series color	Series color	Series color	Black	Series color
	2	-	-	-	-	-	-
Type		Direct mount type	SLR-EV Dual Pivot	Direct mount type	Direct mount type	Direct mount type	SLR-EV Dual Pivot
Reach (mm)		51	51	51	51	51	51
Brake shoe	Standard	R55C4	R55C4	R55C4	R55C4	R55C4	R55C4
	Optional 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
Compatibility		SLR-EV	SLR-EV	SLR-EV	SLR-EV	SLR-EV	SLR-EV
Assembly pivot nut (mm)	Front (mm)	10.5	-	✓	-	-	✓
		12.5	-	✓	-	-	✓
		18.0	-	✓	-	-	✓
		27.0	-	✓	-	-	✓
		32.0	-	✓	-	-	✓
	Rear (mm)	10.5	-	✓	-	-	✓
Cartridge shoe holder		✓	✓	✓	✓	✓	✓
Tire guide bumpers		✓	✓	✓	✓	✓	✓
Quick release lever		✓	✓	✓	✓	-	✓
Shoe angle adjusting		✓	✓	✓	✓	✓	✓
Spring tension adjusting		-	-	-	-	✓	-
Maximum tire size		28C	28C	28C	28C	28C	28C
Rim width		20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm
Cartridge shoe holder	Material	Magnesium	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Anodized
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Anodized
Gate	Material	-	Aluminum	-	-	-	Aluminum
	Finish	-	Anodized	-	-	-	Anodized
Quick release lever	Material	Resin	Resin	Resin	Resin	-	Resin
	Finish	Painted	Painted	Painted	Painted	-	-
Titanium cable fixing bolt		✓	-	-	-	-	-
Titanium pivot bolt		✓ (fixing bolt)	-	-	-	-	-
Average weight (g)		148 (/pc)	182 (Front) 180 (Rear)	180 (/pc)	178 (/pc)	-	182 (Front) 178 (Rear)
Note						Need inline cable adjuster (SM-CB90) for cable adjusting and quick release feature.	

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Brake (Caliper Brake)

Series		ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		BR-R8010-F	BR-R8010-R	BR-R8010-RS	BR-6800	BR-6810-F	BR-6810-RS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Type		Direct mount type	Direct mount type	Direct mount type	SLR-EV Dual Pivot	Direct mount type	Direct mount type
Reach (mm)		51	51	51	51	51	51
Brake shoe	Standard	R55C4	R55C4	R55C4	R55C4	R55C4	R55C4
	Optional choice	R55C4 Carbon R55C4-A Carbon R55CT4	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
Compatibility		SLR-EV	SLR-EV	SLR-EV	SLR-EV	SLR-EV	SLR-EV
Assembly pivot nut (mm)	Front (mm)	10.5	-	-	✓	-	-
		12.5	-	-	✓	-	-
		18.0	-	-	-	✓	-
		27.0	-	-	-	✓	-
		32.0	-	-	-	✓	-
	Rear (mm)	10.5	-	-	✓	-	-
Cartridge shoe holder		✓	✓	✓	✓	✓	✓
Tire guide bumpers		✓	✓	✓	✓	✓	✓
Quick release lever		✓	-	✓	✓	✓	✓
Shoe angle adjusting		✓	✓	✓	✓	✓	✓
Spring tension adjusting		-	✓	-	✓	-	-
Maximum tire size		28C	28C	28C	25C	28C	28C
Rim width		20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm	*19 - 28 mm	*19 - 28 mm	*19 - 28 mm
Cartridge shoe holder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Material	-	-	-	Aluminum	-	-
	Finish	-	-	-	Anodized	-	-
Quick release lever	Material	Resin	-	Resin	Aluminum	Aluminum	Aluminum
	Finish	-	-	-	Painted	Painted	Painted
Titanium cable fixing bolt		-	-	-	-	-	-
Titanium pivot bolt		-	-	-	-	-	-
Average weight (g)		174 (/pc)	160 (/pc)	172 (/pc)	335 (/pair)	173 (/pc)	168 (/pc)
Note			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)

Brake (Caliper Brake)

Series		SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	TIAGRA	SORA
Model no.		BR-R7000	BR-R7010-F	BR-R7010-R	BR-R7010-RS	BR-4700	BR-R3000
Color	1	Silky black	Silky black	Silky black	Silky black	Series color	Series color
	2	Spark silver	-	-	-	-	-
Type		SLR-EV Dual Pivot	Direct mount type	Direct mount type	Direct mount type	NEW SUPER SLR Dual pivot	NEW SUPER SLR Dual pivot
Reach (mm)		51	51	51	51	51	51mm
Brake shoe	Standard	R55C4	R55C4	R55C4	R55C4	R50T5	R50T5
	Optional 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	R50T4	R50T4
Compatibility		SLR-EV	SLR-EV	SLR-EV	SLR-EV	NEW SUPER SLR	NEW SUPER SLR
Assembly pivot nut (mm)	Front (mm)	10.5	✓	-	-	✓	✓
		12.5	✓	-	-	✓	✓
		18.0	✓	-	-	✓	✓
		27.0	✓	-	-	✓	✓
		32.0	✓	-	-	✓	✓
	Rear (mm)	10.5	✓	-	-	✓	✓
Cartridge shoe holder		✓	✓	✓	✓	-	-
Tire guide bumpers		✓	✓	✓	✓	-	-
Quick release lever		✓	✓	-	✓	✓	✓
Shoe angle adjusting		✓	✓	✓	✓	✓	✓
Spring tension adjusting		-	-	✓	-	-	-
Maximum tire size		28C	28C	28C	28C	28C	28 mm
Rim width		20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm	19 - 26 mm	19 - 28 mm
Cartridge shoe holder	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Finish	Painted	Painted	Painted	Painted	-	-
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Gate	Material	Aluminum	-	-	-	Aluminum	Aluminum
	Finish	Anodized	-	-	-	Anodized	Anodized
Quick release lever	Material	Resin	Resin	-	Resin	Resin	Resin
	Finish	-	-	-	-	Painted	-
Titanium cable fixing bolt		-	-	-	-	-	-
Titanium pivot bolt		-	-	-	-	-	-
Average weight (g)		379 (/pair)	174 (/pc)	173 (/pc)	174 (/pc)	-	-
Note		-	-	Need Inline cable adjuster (SM-CB90) for cable adjusting and quick release feature.	-	-	-

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Brake (Caliper Brake)

Series		CLARIS	SHIMANO	SHIMANO
Model no.		BR-R2000	BR-R561	BR-R451
Color	1	Series color	Silver	Black
	2	-	Black	Silver
Type		NEW SUPER SLR Dual pivot	NEW SUPER SLR Dual pivot	SUPER SLR Dual Pivot
Reach (mm)		51mm	49	57
Brake shoe	Standard	R50T5	R55C3	R50T2
	Optional choice	R50T4	R55C for Ceramic rim R55C3 for Carbon rim	-
Compatibility		NEW SUPER SLR	NEW SUPER SLR	SUPER SLR
Assembly pivot nut (mm)	Front (mm)	10.5	✓	✓
		12.5	✓	✓
		18.0	✓	✓
		27.0	✓	✓
		32.0	✓	-
	Rear (mm)	10.5	✓	✓
Cartridge shoe holder		-	✓	-
Tire guide bumpers		-	-	-
Quick release lever		✓	✓	✓
Shoe angle adjusting		✓	✓	✓
Spring tension adjusting		-	-	-
Maximum tire size		28 mm	28C	32C
Rim width		19 - 26 mm	19 - 26 mm	19 - 26 mm
Cartridge shoe holder	Material	-	Aluminum	-
	Finish	-	Painted	-
C-arm	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Painted
Y-arm	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Painted
Gate	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted
Quick release lever	Material	Resin	Zinc	Resin
	Finish	-	Plated	-
Titanium cable fixing bolt		-	-	-
Titanium pivot bolt		-	-	-
Average weight (g)		-	-	-
Note			Maximum tire size: 28 mm	Quick release lever wider open Maximum tire size: 32 mm

Brake (Mechanical Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		BR-R317	BR-RS305-F	BR-RS305-R
Color	1	Black	Black	Black
	2	-	-	-
Brake type		Mechanical disc brake	Mechanical disc brake	Mechanical disc brake
Compatibility		NEW SUPER SLR	NEW SUPER SLR	NEW SUPER SLR
ICE TECHNOLOGIES pad compatible caliper		-	✓	✓
Pad	Standard 1	G03S Resin	K03S Resin	K03S Resin
	Standard 2	-	-	-
	Option 1	-	L03A Resin	L03A Resin
	Option 2	-	-	-
Fixing screw spec for fear mount	10 mm mount	-	-	✓
	15 mm mount	-	-	✓
	20 mm mount	-	-	✓
	25 mm mount	-	-	✓
	30 mm mount	-	-	✓
	35 mm mount	-	-	✓
Recommended 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)
Mount type		Post mount	Flat mount	Flat mount
Piston		1	1	1
Piston material		-	-	-
Caliper	MONO-BODY	-	-	-
	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel
	Tool size	5 mm	4 mm	4 mm
	Anti loosen method	Snap ring	Bolt fix pin/snap ring	Bolt fix pin
Pad mount		Pad axle	Pad axle	Pad axle
Average weight (g)		-	-	-
Note		SHIMANO logo	SHIMANO logo	SHIMANO logo

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Brake (V-BRAKE)

Series		SHIMANO
Model no.		BR-R353
Color	1	Silver
	2	Black
	3	-
Brake type		V-BRAKE
Brake shoe	Standard 1	S70T
	Standard 2	-
	Option 1	M70T4
	Option 2	-
Cartridge shoe holder		-
Arch size (mm)		90
Spacer type	X type	✓
	Y type	-
Compatible lead pipe angle (deg.)		45/90/135
Sleeve & bushing axle		✓
V-arm/caliper	Material	Aluminum
	Finish	Painted
Fixing screw length (mm)	16	✓
	25	✓
Fixing screw	Material	Steel
	Finish	Plated (Black)
	Chamfered screw	-
POWER MODULATOR		-
Linear spring		✓
Threaded brake shoe post		✓
Average weight (g)		-
Note		SHIMANO logo

Brake (Cantilever Brake)

Series		SHIMANO
Model no.		BR-CX50
Color	1	Silver
	2	-
Brake type		Cantilever brake
Reach		-
Brake shoe	Standard	R50T2
	Optional choice	-
Compatibility		NEW SUPER SLR
Assembly pivot nut (mm)		-
Cartridge shoe holder		-
Tire guide bumpers		-
Quick release lever		-
Toe-in adjust		✓
Spring tension adjusting		✓
Cartridge shoe holder	Material	-
	Finish	-
Cantilever	Material	Aluminum
	Finish	Anodized
Average weight (g)		175
Note		Cyclocross usage

Brake Cable

Series		DURA-ACE	SHIMANO	SHIMANO
Model no.		BC-9000	BC-R680	BC-1051
Color	High-tech gray	✓	✓	✓
	Black	✓	✓	✓
	White	✓	✓	✓
	Red	✓	✓	✓
	Blue	✓	✓	-
	Lime-green	✓	✓	-
	Orange	✓	✓	-
	Yellow	✓	✓	-
Brake type		Caliper	Caliper	Caliper
Inner cable	Material	Stainless steel	Stainless steel	Steel
	Coated	Polymer-coated cable	Polymer-coated cable	-
Outer casing	Material	Steel (Plated)	Steel (Plated)	Steel
	Prelubricated casings	✓	✓	-
Note				

Rear Derailleur

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	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
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		11	11	11	11	11	11
Compatible 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-normal spring type	SHIMANO SHADOW RD	✓	-	✓	✓	-	-
	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	-	✓	-	-	✓	✓
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	✓*	-	✓*	✓*	-	-
	Riveted adapter (road type)	-	-	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-	-	-
Cable adjuster		✓	✓	✓	✓	✓	✓
Max. front difference		16T	16T	16T	16T	16T	16T
Total capacity		35T	33T	35T	39T	33T	37T
Low sprocket	Max.	30T	28T	30T	34T	28T	32T
	Min.	25T	23T	25T	28T	23T	28T
Top sprocket	Max.	14T	14T	14T	12T	14T	12T
	Min.	11T	11T	11T	11T	11T	11T
Fluoroc coated link bushings		4	4	4	4	4	4
Pulley	Guide pulley bearing	✓	✓	✓	✓	✓	✓
	Tension pulley bearing	✓	✓	✓	✓	✓	✓
	Teeth	11T	11T	11T	11T	11T	11T
	Screws material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw	✓	✓	✓	✓	✓	✓
Bracket	Material	Aluminum	-	-	-	-	-
	Finish	Anodized	-	-	-	-	-
B-axle	Hollow axle	✓	✓	✓	✓	✓	✓
	Material	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	-	-	-	-	-
B-axle 2	Hollow axle	-	-	-	-	-	-
	Material	Aluminum	-	-	-	-	-
	Finish	Anodized	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
P-axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Plate body	Material	CFRP	CFRP	GFRP	GFRP	CFRP	CFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	GFRP	GFRP	Aluminum	Aluminum
	Finish	Anodized	Anodized	-	-	Painted	Painted
Outer plate	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Coated	Clear Coated	Painted	Painted	Painted	Painted
Inner plate	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Coated	Clear Coated	Painted	Painted	Painted	Painted
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black Coated	-	Black Coated	Black Coated	-	-
Stroke adjusting screw	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Anodized	Anodized	Plated	Plated	Plated	Plated
Average weight (g)		158	158	200	210	195	207
Note		* w/o Bracket spec available		* w/o Bracket spec available	* w/o Bracket spec available		

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Rear Derailleur

Series		ULTEGRA RX	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	TIAGRA
Model 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
Color	1	Series color	Silky black	Silky black	Black	Black	Series color
	2	-	Spark silver	Spark silver	Silver	Silver	-
Rear speeds		11	11	11	10	10	10
Compatible chain		HG-X11	HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11	HG 10-speed	HG 10-speed	HG-X Chain
Top-normal spring type	SHIMANO SHADOW RD	-	✓	✓	-	-	-
	SHIMANO SHADOW RD+	✓	-	-	-	-	-
	Double servo	-	-	-	✓	✓	✓
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	✓*	✓*	✓*	-	-	-
	Riveted adapter (road type)	-	-	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-	-	-
Cable adjuster		✓	✓	✓	✓	✓	✓
Max. front difference		16T	16T	16T	16T	16T (Front double) 22T (Front triple)	16T
Total capacity		39T	35T	39T	34T	40T	33T
Low sprocket	Max.	34T	30T	34T	30T	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
Pulley	Guide pulley bearing	✓	-	-	-	-	-
	Tension pulley bearing	✓	-	-	-	-	-
	Teeth	11T	11T	11T	11T	11T	11T
	Screws material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw	✓	✓	✓	✓	✓	✓
Bracket	Material	Aluminum	-	-	-	-	-
	Finish	Anodized	-	-	-	-	-
B-axle	Hollow axle	✓	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Stainless steel
	Finish	-	-	-	Plated	Plated	-
B-axle 2	Hollow axle	-	-	-	-	-	-
	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
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	Material	Aluminum	GFRP	GFRP	Steel	Steel	Steel
	Finish	Painted	-	-	Plated	Plated	Plated
Outer plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Plated
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Plated
Cable fixing screw	Material	Stainless steel	Steel	Steel	Steel	Steel	Steel
	Finish	Passivation	Plated	Plated	Plated	Plated	Plated
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)		248	225	232	230	243	-
Note		* w/o bracket spec available	* w/o Bracket spec available	* w/o Bracket spec available			

Rear Derailleur

Series		TIAGRA	SORA	SORA	SHIMANO	CLARIS	CLARIS	
Model 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	
Color	1	Series color	Series color	Series color	Black	Series color	Series color	
	2	-	-	-	-	-	-	
Rear speeds		10	9	9	9	8	8	
Compatible chain		HG-X Chain	HG 9-speed	HG 9-speed	HG 9-speed	HG 8-speed	HG 8-speed	
Top-normal spring type	SHIMANO SHADOW RD	-	-	-	-	-	-	
	SHIMANO SHADOW RD+	-	-	-	-	-	-	
	Double servo	✓	✓	✓	✓	✓	✓	
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓	
	Direct mount	-	-	-	-	-	-	
	Riveted adapter (road type)	-	-	-	-	-	-	
	Riveted adapter (BMX-track type)	-	-	-	-	-	-	
Cable adjuster		✓	✓	✓	✓	✓	✓	
Max. front difference		16T (Front double) 20T (Front triple)	16T	20T	20T	16T	20T	
Total capacity		41T	37T	43T	41T	37T	43T	
Low sprocket	Max.	34T (Front double) 32T (Front triple)	32T	34T	32T	32T	34T	
	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	
Fluoroc coated link bushings		2	2	2	2	-	-	
Pulley	Guide pulley bearing	-	-	-	-	-	-	
	Tension pulley bearing	-	-	-	-	-	-	
	Teeth	11T	11T	11T	11T	11T	11T	
	Screws material	Stainless steel	Steel	Steel	Steel	Steel	Steel	
	Sunken type pulley screw	✓	-	-	✓	✓	✓	
Bracket	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
B-axle	Hollow axle	-	-	-	-	-	-	
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	Plated	Plated	
B-axle 2	Hollow axle	-	-	-	-	-	-	
	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	Aluminum	Resin	Resin	Resin	Resin	Resin	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Painted	Painted	Painted	Painted	Painted	
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Painted	Painted	Painted	Painted	Painted	
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Painted	Painted	Painted	Painted	Painted	
Cable fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Nickel Plated	Nickel Plated	Nickel Plated	Nickel Plated	Nickel Plated	
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	
Average weight (g)		-	-	-	-	-	-	
Note							SHIMANO logo	

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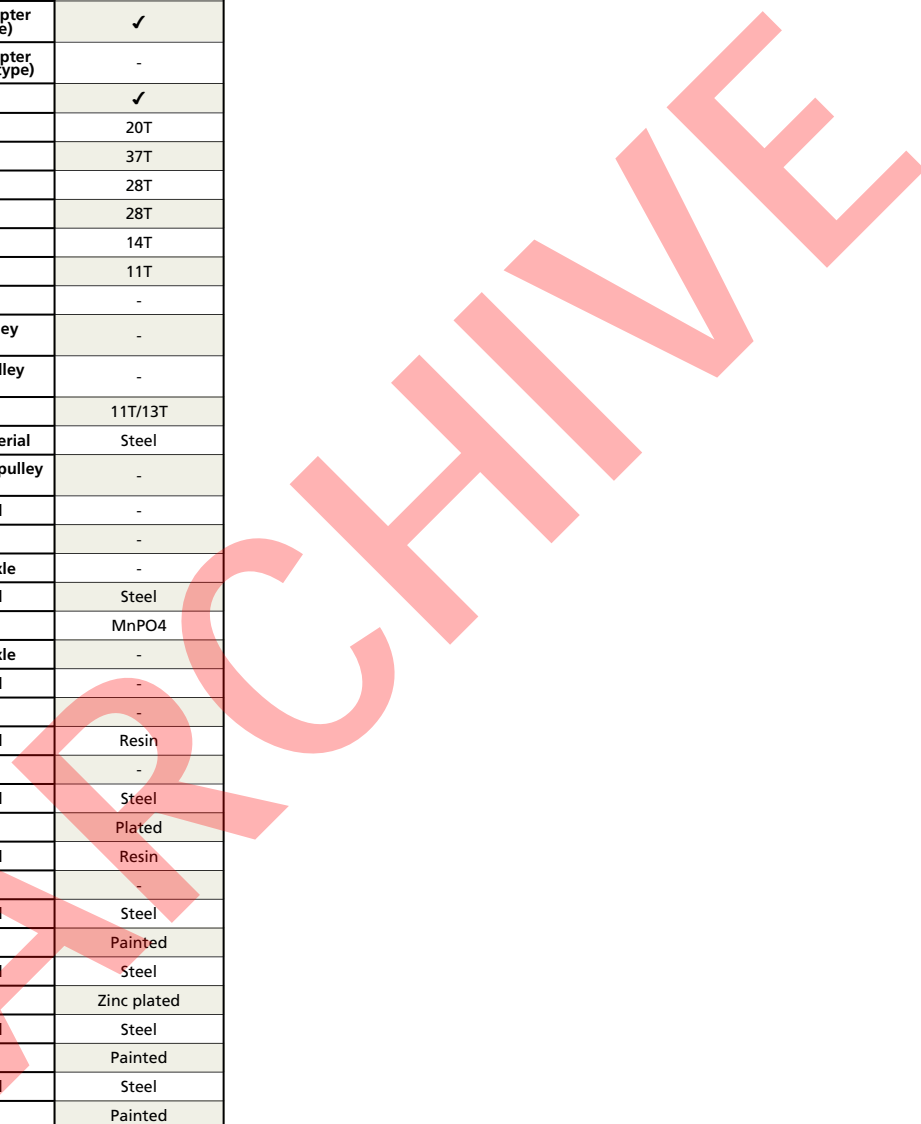
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Rear Derailleur

Series		TOURNEY A070
Model no.		RD-A070
Pulley cage		Smart
Color	1	Series color
	2	-
Rear speeds		7
Compatible chain		HG
Top-normal spring type	SHIMANO SHADOW RD	-
	SHIMANO SHADOW RD+	-
	Double servo	-
Mount	Direct attachment (conventional)	✓
	Direct mount	-
	Riveted adapter (road type)	✓
	Riveted adapter (BMX-track type)	-
Cable adjuster		✓
Max. front difference		20T
Total capacity		37T
Low sprocket	Max.	28T
	Min.	28T
Top sprocket	Max.	14T
	Min.	11T
Fluoric coated link bushings		-
Pulley	Guide pulley bearing	-
	Tension pulley bearing	-
	Teeth	11T/13T
	Screws material	Steel
	Sunken type pulley screw	-
Bracket	Material	-
	Finish	-
B-axle	Hollow axle	-
	Material	Steel
	Finish	MnPO4
B-axle 2	Hollow axle	-
	Material	-
	Finish	-
Bracket body	Material	Resin
	Finish	-
P-axle	Material	Steel
	Finish	Plated
Plate body	Material	Resin
	Finish	-
Outer link	Material	Steel
	Finish	Painted
Inner link	Material	Steel
	Finish	Zinc plated
Outer plate	Material	Steel
	Finish	Painted
Inner plate	Material	Steel
	Finish	Painted
Cable fixing screw	Material	Steel
	Finish	Zinc Plated
Stroke adjusting screw	Material	Steel
	Finish	Zinc Plated
Average weight (g)		-
Note		



Front Derailleur

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	
Model no.		FD-R9100-F	FD-R9100-B	FD-9000-F	FD-9000-B	FD-R8000-F	FD-R8000-B	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front speeds		2	2	2	2	2	2	
Rear speeds		11	11	11	11	11	11	
Compatible 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	
Action	TOP SWING	-	-	-	-	-	-	
	Down swing	✓	✓	✓	✓	✓	✓	
Mount	Clamp band (mm)	28.6	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)
		31.8	-	✓	-	✓	-	✓
		34.9	-	✓	-	✓	-	✓
	Brazed-on	✓	-	✓	-	✓	-	-
Cable adjust		✓	✓	-	-	✓	✓	
Cable route type	Top-pull exclusive	-	-	-	-	-	-	
Chain line (mm)		43.5	43.5	43.5	43.5	43.5	43.5	
Chainstay 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 capacity		16T	16T	16T	16T	16T	16T	
Applicable top-mid tooth difference		-	-	-	-	-	-	
Angled clamp band design		-	-	-	-	-	-	
Multi-bearing construction		2	2	-	-	-	-	
Link bushings		8	8	7	7	8	8	
Front clamp band	Material	-	Aluminum	-	Aluminum	-	Aluminum	
	Finish	-	Painted	-	Anodized	-	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Anodized	Anodized	Painted	Painted	
Clamp screw	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	CFRF	CFRF	Aluminum	Aluminum	GFRP	GFRP	
	Finish	Plated/Painted	Plated/Painted	Anodized	Anodized	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted	
Chain guide	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Chrome plated	Chrome plated	
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke adjusting screw	Material	Steel	Steel	Aluminum	Aluminum	Stainless steel	Stainless steel	
	Finish	Black	Black	Anodized	Anodized	Black	Black	
Average weight (g) (band type: L size, direct type: w/ screw)		70	85	66	78	92	106	
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Front Derailleur

Series		ULTEGRA	ULTEGRA	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105
Model no.		FD-6800-F	FD-6800-B	FD-R7000-F	FD-R7000-B	FD-5700-F	FD-5703-F
Color	1	Series color	Series color	Silky black	Silky black	Black	Black
	2	-	-	Spark silver	Spark silver	Silver	Silver
Front speeds		2	2	2	2	2	3
Rear speeds		11	11	11	11	10	10
Compatible 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
Action	TOP SWING	-	-	-	-	-	-
	Down swing	✓	✓	✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-
		31.8	-	✓	-	✓	-
		34.9	-	✓	-	✓	-
	Brazed-on	✓	-	✓	-	✓	✓
Cable adjust		-	-	✓	✓	-	-
Cable route type	Top-pull exclusive	-	-	-	-	-	-
Chain line (mm)		43.5	43.5	43.5	43.5	43.5	45
Chainstay angle (deg.)		61 - 66	61 - 66	61 - 66	61 - 66	61 - 66	63 - 66
Top gear teeth		46-53T	46-53T	46-53T	46-53T	50-56T	50T
Total capacity		16T	16T	16T	16T	16T	20T
Applicable top-mid tooth difference		-	-	-	-	-	11T
Angled clamp band design		-	-	-	✓	-	-
Multi-bearing construction		-	-	-	-	-	-
Link bushings		7	7	7	7	-	-
Front clamp band	Material	-	Aluminum	-	Aluminum	-	-
	Finish	-	Painted	-	Painted	-	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer link	Material	Aluminum	Aluminum	GFRP	GFRP	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Aluminum
	Finish	Painted	Painted	Plated	Plated	Painted	Painted
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome plated	Chrome plated	Chrome Plated	Chrome Plated	Chrome plated	Chrome plated
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stroke adjusting screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	Black	Black	-	-
Average weight (g) (band type: L size, direct type: w/ screw)		89	104	95	111	89	114
Note				-	-		

Front Derailleur

Series		TIAGRA	TIAGRA	TIAGRA	TIAGRA	SHIMANO	SHIMANO
Model no.		FD-4700-F	FD-4700-B	FD-4703-F	FD-4703-B	FD-CX70-F-T	FD-CX70-F-D
Color	1	Series color	Series color	Series color	Series color	Gray	Gray
	2	-	-	-	-	-	-
Front speeds		2	2	3	3	2	2
Rear speeds		10	10	10	10	10	10
Compatible 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 SWING	-	-	-	-	-	-
	Down swing	✓	✓	✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	-	✓*	-	✓*	-
		31.8	-	✓	-	✓	-
		34.9	-	✓	-	✓	-
	Brazed-on	✓	-	✓	-	✓	✓
Cable adjust		-	-	-	-	-	-
Cable route type	Top-pull exclusive	-	-	-	-	✓	-
Chain line (mm)		43.5	43.5	45	45	43.5	43.5
Chainstay angle (deg.)		61 - 66	61 - 66	63 - 66	63 - 66	63 - 66	63 - 66
Top gear teeth		46-52T	46-52T	50T	50T	46-52T	46-52T
Total capacity		16T	16T	20T	20T	16T	16T
Applicable top-mid tooth difference		-	-	11T	11T	-	-
Angled clamp band design		-	-	-	-	-	-
Multi-bearing construction		-	-	-	-	-	-
Link bushings		-	-	-	-	7	7
Front clamp band	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Finish	Painted	Painted	Painted	Painted	-	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stroke adjusting screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Average weight (g) (band type: L size, direct type: w/ screw)		-	-	-	-	92	87
Note			* 28.6 mm Clamp band: 31.8 mm w/ Adapter		* 28.6 mm Clamp band: 31.8 mm w/ Adapter		

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Front Derailleur

Series		SORA	SORA	SORA	SORA	SHIMANO	CLARIS
Model no.		FD-R3000-F	FD-R3000-B	FD-R3030-F	FD-R3030-B	FD-R353-B	FD-R2000-F
Color	1	Series color	Series color	Series color	Series color	Black	Series color
	2	-	-	-	-	-	-
Front speeds		2	2	3	3	3	2
Rear speeds		9	9	9	9	9	8
Compatible chain		-	-	-	-	HG 9-speed	HG 8-speed
Action	TOP SWING	-	-	-	-	-	-
	Down swing	✓	✓	✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-	-
		31.8	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	-	-
		34.9	-	✓	-	✓	✓
	Brazed-on	✓	-	✓	-	-	✓
Cable adjust		-	-	-	-	-	-
Cable route type	Top-pull exclusive	-	-	-	-	-	-
Chain line (mm)		43.5	43.5	45	45	45	43.5
Chainstay angle (deg.)		61 - 66	61 - 66	63 - 66	63 - 66	63 - 66	61 - 66
Top gear teeth		46-52T	46-52T	50T	50T	50T	46-52T
Total capacity		16T	16T	20T	20T	20T	16T
Applicable top-mid tooth difference		-	-	11T	11T	11T	-
Angled clamp band design		✓	✓	✓	✓	-	✓
Multi-bearing construction		-	-	-	-	-	-
Link bushings		-	-	-	-	-	-
Front clamp band	Material	-	Aluminum	-	Aluminum	Aluminum	-
	Finish	-	Painted	-	Painted	Painted	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Ni plated	Ni plated	Ni plated	Ni plated	Ni plated	Ni Plated
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g) (band type: L size, direct type: w/ screw)		-	-	-	-	-	-
Note						SHIMANO logo	

Front Derailleur

Series		CLARIS	CLARIS	CLARIS	TOURNEY	TOURNEY
Model no.		FD-R2000-B	FD-R2030-F	FD-R2030-B	FD-A070-A	FD-A073
Color	1	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-
Front speeds		2	3	3	2	3
Rear speeds		8	8	8	7	7
Compatible chain		HG 8-speed	HG 8-speed	HG 8-speed	HG	HG
Action	TOP SWING	-	-	-	-	-
	Down swing	✓	✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)
		31.8	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	✓	-	✓	✓
	Brazed-on	-	✓	-	-	-
Cable adjust		-	-	-	-	-
Cable route type	Top-pull exclusive	-	-	-	-	-
Chain line (mm)		43.5	45	45	43.5	45
Chainstay angle (deg.)		61 - 66	63 - 66	63 - 66	61 - 66	63 - 66
Top gear teeth		46-52T	50T	50T	50T	50T
Total capacity		16T	20T	20T	16T	20T
Applicable top-mid tooth difference		-	11T	11T	-	11T
Angled clamp band design		✓	✓	✓	✓	✓
Multi-bearing construction		-	-	-	-	-
Link bushings		-	-	-	-	-
Front clamp band	Material	Steel	-	Steel	Steel	Steel
	Finish	Painted	-	Painted	Painted	Painted
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome plated	Chrome plated	Chrome plated	Painted	Painted
Cable fixing screw	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Ni Plated	Ni Plated	Ni Plated	Ni plated	Ni plated
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g) (band type: L size, direct type: w/ screw)		-	-	-	-	-
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Crankset

Series		DURA-ACE	ULTEGRA	DURA-ACE	DURA-ACE	ULTEGRA	SHIMANO 105
Model no.		FC-R9200	FC-R8100	FC-R9100	FC-9000	FC-R8000	FC-R7000
Color	1	Series color	Series color	Series color	Series color	Series color	Silky black
	2	-	-	-	-	-	Spark silver
Rear speeds		12	12	11	11	11	11
Compatible chain		CN-M9100	CN-M8100	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 line (mm)		44.5	44.5	43.5	43.5	43.5	43.5
P.C.D. (mm)		110	110	110	110	110	110
Spider/gear arms		4	4	4	4	4	4
Chaining combination		54-40T 52-36T 50-34T	52-36T 50-34T	55-42T 54-42T 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-factor (mm)		148	148	146	146	146	146
Crank arm length (mm)	160	✓	✓	-	-	-	✓
	165	✓	✓	✓	✓	✓	✓
	167.5	✓	-	✓	✓	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	✓	✓	✓
	175	✓	✓	✓	✓	✓	✓
	177.5	✓	-	✓	✓	-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	✓	✓	✓	✓
2-PIECE CRANKSET		-	-	-	-	-	-
HOLLOWTECH crank arm		✓	✓	✓	✓	✓	✓
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		✓	✓	✓	✓	✓ (- (46-36T))	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-R9100	SM-BBR60	BB-R9100	BB-R9100	SM-BBR60	SM-BBR60
	Press-Fit	SM-BB92-41B	SM-BB72-41B	SM-BB92-41B	SM-BB92-41B	SM-BB72-41B	SM-BB72-41B
Axle length of BB-UN/E5 (mm)	Threaded (normal)	-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓	✓
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	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	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
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
Inner ring fixing screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		714 (54-40T) 692 (52-36T) 685 (50-34T)	711 (52-36T) 700 (50-34T)	650 (55-42T) 642 (54-42T) 626 (53-39T) 624 (52-36T) 614 (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)
Note							

Crankset

Series		SHIMANO	DURA-ACE	SHIMANO 105	SHIMANO 105	SHIMANO	TIAGRA
Model no.		FC-RS510	FC-7710	FC-5750	FC-5703	FC-CX50	FC-4700
Color	1	Black	Series color	Black	Black	Silver	Series color
	2	-	-	-	-	Black	-
Rear speeds		11	-	10	10	10	10
Compatible chain		HG-EV 11-speed, HG-X11	1/2 x 1/8, 1/2 x 3/32	HG 10-speed	HG 10-speed	HG 10-speed	HG-X 10-speed
Chain line (mm)		43.5	42.5	43.5	45	43.5	43.5
P.C.D. (mm)		110	144	110	130/74	110	110
Spider/gear arms		4	5	5	5	5	4
Chaining combination		52-36T 50-34T 46-36T	45T to 55T (1/2 x 1/8, 1/2 x 3/32)	50-34T	50-39-30T	46-36T	52-36T 50-34T 48-34T
Q-factor (mm)		150	136.3	146	154.76	150	150
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	✓	✓	✓	-	✓
	167.5	-	✓	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	✓	✓	✓
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	✓	✓	-	-
2-PIECE CRANKSET		✓	-	-	-	✓	✓
HOLLOWTECH crank arm		-	✓	✓	✓	-	-
OCTALINK		-	✓	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	-	✓	✓	✓	✓
	OCTALINK	-	✓	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-RS500	BB-7710, BB-7700	SM-BB5700	SM-BB5700	BB-RS500	BB-RS500
	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 bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	-	Steel	Steel	Steel	Steel
	Finish	Plated	-	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum/Resin	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum/GFRP (52-36T, 50-34T) Aluminum/Resin (48-34T)
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized (52-36T, 50-34T) Anodized and Painted (48-34T)
Middle ring	Material	-	-	-	Aluminum	-	-
	Finish	-	-	-	Anodized	-	-
Inner ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing screw	Material	-	-	-	Stainless steel	-	-
	Finish	-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		908 (50-34T)	566 (52T, 1/2 inch x 1/8 inch)	716	831	798	-
Note							

Crankset

Series		TIAGRA	SHIMANO	SHIMANO	SORA	SORA	SORA
Model 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
	2	-	-	-	-	-	-
Rear speeds		10	10	10	9	9	9
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed
Chain line (mm)		45	43.5	43.5	45	45	43.5
P.C.D. (mm)		110/74	110	110	110/74	130/74	110
Spider/gear arms		4	5	5	4	5	4
Chainring combination		50-39-30T	48-34T 46-34T	50-34T	50-39-30T	50-39-30T	50-34T
Q-factor (mm)		158.8	149.9	150.3	158.8	158.8	150
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	✓	-	✓	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	✓	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	✓	-
	Without chain/bash guard	✓	✓	✓	✓	-	✓
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		✓	✓	✓	✓	✓	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-RS500	BB-RS500	BB-RS500	BB-RS500	BB-RS500	BB-RS500
	Press-Fit	BB-RS500-PB	SM-BB71-41B	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB
Axle length of BB-UN/E5 (mm)	Threaded (normal)	-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	-	Steel	Steel	Steel
	Finish	Plated	Plated	-	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum/GFRP	Aluminum	Aluminum	Aluminum/Resin	Aluminum/Resin	Aluminum/Resin
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	Aluminum	-	-	Steel	Steel	-
	Finish	Anodized	-	-	Painted	Painted	-
Inner ring	Material	Steel	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Plated	Anodized	Anodized	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing screw	Material	Stainless steel	-	-	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		-	-	-	-	-	-
Note			SHIMANO logo			w/ Chain guard spec.	

Crankset

Series		SORA	SHIMANO	CLARIS	CLARIS	CLARIS	CLARIS
Model no.		FC-R3000-CG	FC-R345	FC-R2030	FC-R2030-CG	FC-R2000	FC-R2000-CG
Color	1	Series color	Silver	Series color	Series color	Series color	Series color
	2	-	Black	-	-	-	-
Rear speeds		9	9	8	8	8	8
Compatible chain		HG 9-speed	HG 9-speed	HG 8-speed	HG 8-speed	HG 8-speed	HG 8-speed
Chain line (mm)		43.5	43.5	45	45	43.5	43.5
P.C.D. (mm)		110	110	110/74	110/74	110	110
Spider/gear arms		5	5	4	4	4	4
Chaining combination		50-34T	50-34T	50-39-30T	50-39-30T	50-34T	50-34T
Q-factor (mm)		150	152.2	158.8	158.8	150	150
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	-	✓	✓	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With chain guard	✓	✓	-	✓	-	✓
	Without chain/bash guard	-	✓	✓	-	✓	-
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		✓	-	✓	✓	✓	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	✓	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	-	✓	✓	✓	✓
	OCTALINK	-	✓	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-RS500	BB-ES300	BB-RS500	BB-RS500	BB-RS500	BB-RS500
	Press-Fit	BB-RS500-PB	-	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB
Axle length of BB-UN/E5 (mm)	Threaded (normal)	-	113	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	-	Steel	Steel	Steel	Steel
	Finish	Plated	-	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum/Resin	Aluminum	Steel/Resin	Steel/Resin	Steel/Resin	Steel/Resin
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Middle ring	Material	-	-	Steel	Steel	-	-
	Finish	-	-	Painted	Painted	-	-
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing screw	Material	Stainless steel	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		-	-	-	-	-	-
Note		w/ Chain guard spec.					

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Crankset

Series		SHIMANO	TOURNEY A070	TOURNEY
Model no.		FC-RS200	FC-A070	FC-A073
Color	1	Black	Series color	Series color
	2	-	-	-
Rear speeds		8	7/8	7/8
Compatible chain		HG 8-speed	HG	HG
Chain line (mm)		43.5	43.5	45
P.C.D. (mm)		110	Riveted	Riveted
Spider/gear arms		5	5	5
Chaining combination		50-34T 46-34T	50-34T	50-39-30T
Q-factor (mm)		153.7	169	171.5
Crank arm length (mm)	160	-	-	-
	165	✓	✓	✓
	167.5	-	-	-
	170	✓	✓	✓
	172.5	-	-	-
	175	✓	-	-
	177.5	-	-	-
Optional chain guard	With chain guard	✓	✓	✓
	Without chain/bash guard	✓	✓	✓
HOLLOWTECH II		-	-	-
2-PIECE CRANKSET		-	-	-
HOLLOWTECH crank arm		-	-	-
OCTALINK		-	-	-
HOLLOWGLIDE		-	-	-
Compatible bottom bracket type	Outboard	-	-	-
	OCTALINK	-	-	-
	Square	✓	✓	✓
Recommended bottom bracket	Threaded (normal)	BB-UN300	BB-UN300	BB-UN300
	Press-Fit	-	-	-
Axle length of BB-UN/ES (mm)	Threaded (normal)	MM110	MM110	LL113
Threaded bottom bracket shell width (mm)	68	✓	✓	✓
	70	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Crank axle	Material	-	-	-
	Finish	-	-	-
Spider arm	Material	-	-	-
	Finish	-	-	-
Spider arm cover	Material	-	-	-
	Finish	-	-	-
Outer ring	Material	Steel	Steel	Steel
	Finish	Painted	Painted	Painted
Middle ring	Material	-	-	Steel
	Finish	-	-	Painted
Inner ring	Material	Steel	Steel	Steel
	Finish	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	-	-
	Finish	-	-	-
Inner ring fixing screw	Material	-	-	-
	Finish	-	-	-
Crank fixing screw included		✓	-	-
Average weight (g) (170 mm, w/o bottom bracket)		-	-	-
Note				

Crankset (Power Meter)

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA
Model no.		FC-R9200-P	FC-R9200-P w/o gears	FC-R9100-P	FC-R9100-P w/o gears	FC-R8100-P	FC-R8100-P w/o gears
Chaining combination		54-40T 52-36T 50-34T	-	53-39T 52-36T 50-34T	-	52-36T 50-34T	-
Crank arm length (mm)	160	-	✓	-	-	-	✓
	165	✓ (52-36T)	✓	-	✓	✓ (52-36T) - (50-34T)	✓
	167.5	-	✓	-	✓	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	✓	✓	✓
	175	✓	✓	✓	✓	✓	✓
	177.5	-	✓	-	✓	-	-
Force measurement	180	-	-	-	✓	-	-
	Right side	✓	✓	✓	✓	✓	✓
	Left side	✓	✓	✓	✓	✓	✓
Cadence measurement	Number of strain sensor	24	24	24	24	24	24
	Magnet	✓	✓	✓	✓	✓	✓
	Accelerometer	-	-	-	-	-	-
Accuracy (%)		±1.5	±1.5	±2	±2	±2	±2
LED for system status		✓	✓	✓	✓	✓	✓
Number of control button		1	1	1	1	1	1
Zero offset	By control button	✓	✓	✓	✓	✓	✓
	By device	✓	✓	✓	✓	✓	✓
Active temperature compensation		✓	✓	✓	✓	✓	✓
Battery	Type	Lithium ion	✓	✓	✓	✓	✓
		Coin cell	-	-	-	-	-
	Life	300 h or longer	300 h or longer	300 h or longer	300 h or longer	300 h or longer	300 h or longer
	Charging port	✓	✓	✓	✓	✓	✓
	Charging cable	EW-EC300	EW-EC300	Included	Included	EW-EC300	EW-EC300
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
Di2 connectivity wired							
	Di2 shifting	-	-	-	-	-	-
Di2 connectivity wireless	Bluetooth h@ LE	Di2 shifting	-	-	-	-	-
		Cycling power	✓	✓	✓	✓	✓
	ANT+	Bicycle power	✓	✓	✓	✓	✓
		Adjust mode Information	-	-	-	-	-
	Bluetooth h@ LE custom *	Di2 battery level	-	-	-	-	-
		Gear position	-	-	-	-	-
		SHIMANO STEPS data items ***	-	-	-	-	-
		Compatible with E-TUBE RIDE	✓	✓	✓	✓	✓
		Compatible with E-TUBE PROJECT	✓	✓	✓	✓	✓
		Adjust mode Information	-	-	-	-	-
ANT private **	Di2 battery level	-	-	-	-	-	
	Gear position	-	-	-	-	-	
	SHIMANO STEPS data items ***	-	-	-	-	-	
SD50 port (pcs)		0	0	0	0	0	0
SD300 port (pcs)		0	0	0	0	0	0
SD50 connector (pcs)		0	0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0	0
Average weight (g) (170 mm, w/o bottom bracket)		774 (54-40T) 752 (52-36T) 745 (50-34T)	-	696 (53-39T) 695 (52-36T) 685 (50-34T)	-	769 (52-36T) 758 (50-34T)	-
<p>Note</p> <p>* Bluetooth LE custom has compatibility with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile.</p> <p>** ANT private has compatibility with ANT+ cycle computer but not freely open profile.</p> <p>*** SHIMANO STEPS data items will be shown only when connected to SHIMANO STEPS bike</p>		Crankset specifications not listed here are the same as FC-R9200	Crankset specifications not listed here are the same as FC-R9200	Crankset specifications not listed here are the same as FC-R9100 Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh	Crankset specifications not listed here are the same as FC-R9100 Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh	Crankset specifications not listed here are the same as FC-R8100	Crankset specifications not listed here are the same as FC-R8100

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Bottom Bracket (HOLLOWTECH II)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BB-R9100	SM-BB92-41	SM-BB72-41	SM-BBR60	BB-RS500	BB-RS500-P
HOLLOWTECH II bottom bracket	Threaded bottom bracket type	✓	-	-	✓	✓	-
	Press-Fit type	-	✓	✓	-	-	✓
Threaded bottom bracket shell width (mm)	68	✓	-	-	✓	✓	-
	70	✓	-	-	✓	✓	-
Press-Fit bottom bracket shell width (mm)	86.5	-	✓ (SM-BB92-41B)	✓ (SM-BB72-41B)	-	-	✓ (BB-RS500-PB)
Small ball bearing		✓	✓	✓	✓	-	-
Adapter	Material	Aluminum	Resin	Resin	Aluminum	Aluminum	Resin
	Finish	Anodized	-	-	Anodized	Anodized	-
Average weight (g)		65	54	69	77	92	71
Note							

Bottom Bracket

Series		DURA-ACE	DURA-ACE	SHIMANO 105	SHIMANO	
Model no.		BB-7700	BB-7710	BB-5500	BB-E551	
Spindle	Hollow pipe	✓	✓	✓	✓	
	OCTALINK	✓	✓	✓	✓	
	Square type	-	-	-	-	
Axle length/shell width (mm)	109.5	68 (BC1.37)	✓	✓	✓ (for double)	-
		70 (M36)	✓	-	✓ (for double)	-
	MM110	68 (BC1.37)	-	-	-	-
		70 (M36)	-	-	-	-
	LL113	68 (BC1.37)	-	-	-	-
		70 (M36)	-	-	-	-
	113	68 (BC1.37)	-	-	-	✓ (for double)
		70 (M36)	-	-	-	✓ (for double)
	118.5	68 (BC1.37)	-	-	✓ (for triple)	-
		70 (M36)	-	-	✓ (for triple)	-
	121	68 (BC1.37)	-	-	-	✓ (for triple)
Spindle	Material	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Plated	
Left hand adapter	Material	Aluminum	Aluminum	Aluminum	Resin	
	Finish	Anodized	Anodized	Anodized	-	
Average weight (g)		173	244	-	-	
Note			For track			

Cassette Sprocket

Series		DURA-ACE	ULTEGRA	DURA-ACE
Model no.		CS-R9200-12	CS-R8100-12	CS-R9100
Type		HYPERGLIDE+	HYPERGLIDE+	HG-EV
Rear speeds		12	12	11
Compatible chain		HG 12-speed	HG 12-speed	HG-X11/CN-LG 11-speed
Combination name (Group name)		11-30T 11-34T	11-30T 11-34T	11-25T 11-28T 11-30T 12-25T 12-28T
Combination * Titanium gear	1	11-12-13-14-15-16-17-19* ^T -21*-24*-27*-30*	11-12-13-14-15-16-17-19-21-24-27-30T	11-12-13-14-15-16-17*-19*-21*-23*-25* ^T
	2	11-12-13-14-15-17-19*-21*-24*-27*-30*-34* ^T	11-12-13-14-15-17-19-21-24-27-30-34T	11-12-13-14-15-17-19*-21*-23*-25*-28* ^T
	3	-	-	11-12-13-14-15-17-19*-21*-24*-27*-30* ^T
	4	-	-	12-13-14-15-16-17-18*-19*-21*-23*-25* ^T
	5	-	-	12-13-14-15-16-17-19*-21*-23*-25*-28* ^T
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	✓	✓	-
	HG spline L (ROAD 11-speed)	-	-	✓
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	1
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	2	2	1
	Finish	Anodized	Anodized / Painted	Anodized
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	5 (11-30T) 6 (11-34T)	0	5
	Finish	Titanium	-	Titanium
Aluminum gear	QTY (pcs)	0	0	0
	Finish	-	-	-
Steel gear	QTY (pcs)	7 (11-30T) 6 (11-34T)	12	6
	Finish	Nickel Plated	Nickel Plated	Nickel plated
Lock ring	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Average weight (g)		223 (11-30T) 253 (11-34T)	291 (11-30T) 345 (11-34T)	175 (11-25T) 193 (11-28T) 211 (11-30T) 189 (12-25T) 205 (12-28T)
Note				

Series		ULTEGRA	SHIMANO	SHIMANO 105
Model no.		CS-R8000	CS-HG800-11	CS-R7000
Type		HG-EV	HG-EV	HG-EV
Rear speeds		11	11	11
Compatible chain		HG-X11/CN-LG 11-speed	HG-X11/CN-LG 11-speed	HG-X11/CN-LG 11-speed
Combination name (Group name)		11-25T 11-28T 11-30T 12-25T 14-28T 11-32T	11-34T	11-28T 11-30T 11-32T 12-25T
Combination * Titanium gear	1	11-12-13-14-15-16-17-19-21-23-25T	11-13-15-17-19-21-23-25-27-30-34T	11-12-13-14-15-17-19-21-23-25-28T
	2	11-12-13-14-15-17-19-21-23-25-28T	-	11-12-13-14-15-17-19-21-24-27-30T
	3	11-12-13-14-15-17-19-21-24-27-30T	-	11-12-13-14-16-18-20-22-25-28-32T
	4	12-13-14-15-16-17-18-19-21-23-25T	-	12-13-14-15-16-17-18-19-21-23-25T
	5	14-15-16-17-18-19-20-21-23-25-28T	-	-
	6	11-12-13-14-16-18-20-22-25-28-32T	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 11-speed)	✓	-	✓
	HG spline M (8/9/10-speed, MTB 11-speed)	-	✓	-
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	1	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	1	2	1
	Finish	Anodized	Anodized	Anodized
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	0	0	0
	Finish	-	-	-
Aluminum gear	QTY (pcs)	0	0	0
	Finish	-	-	-
Steel gear	QTY (pcs)	11	11	11
	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Nickel plated
Average weight (g)		232 (11-25T) 251 (11-28T) 269 (11-30T) 243 (12-25T) 300 (14-28T) 292 (11-32T)	335	284 (11-28T) 304 (11-30T) 320 (11-32T) 269 (12-25T)
Note				

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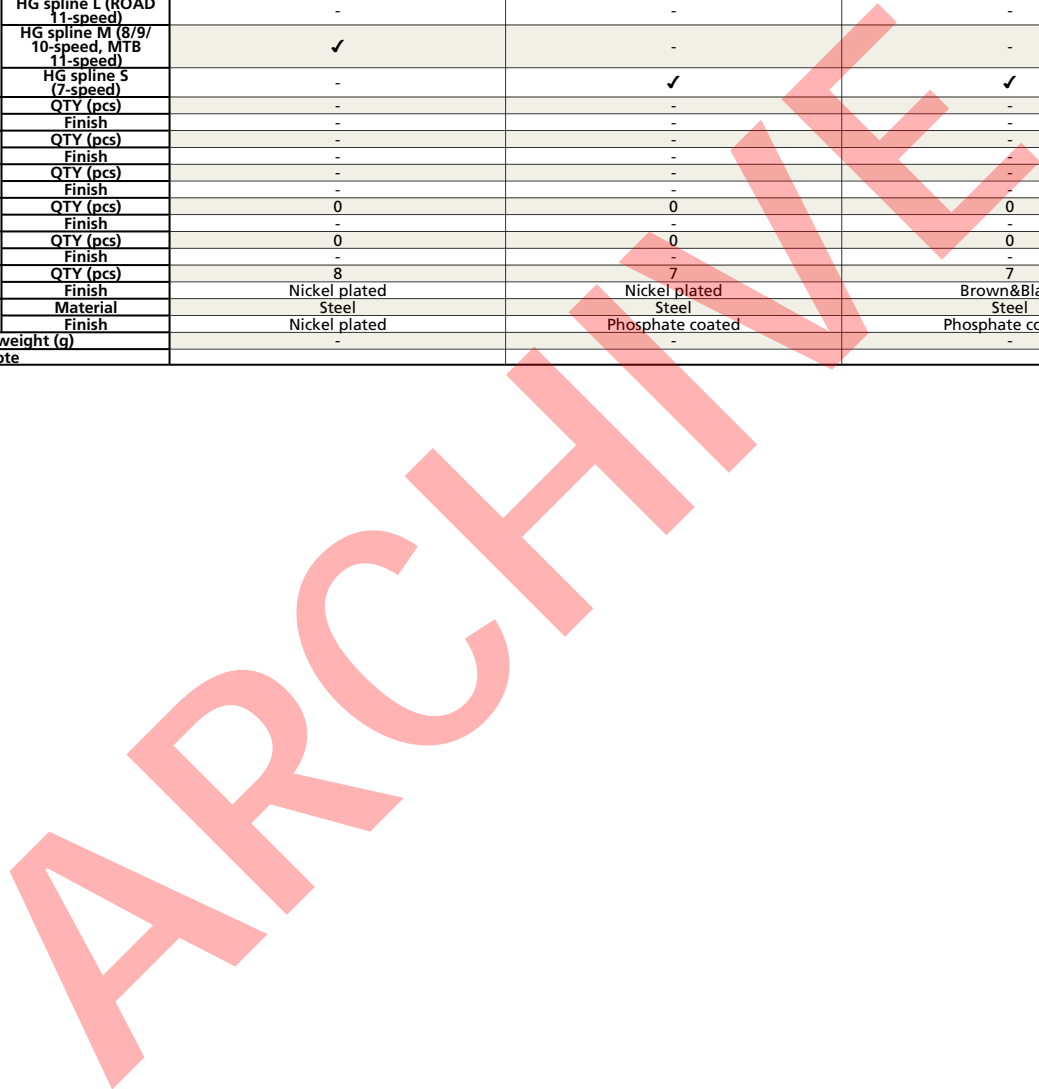
Cassette Sprocket

Series		SHIMANO	ULTEGRA	SHIMANO 105
Model no.		CS-HG700-11	CS-6700	CS-5700
Type		HG-EV	HG	HG
Rear speeds		11	10	10
Compatible chain		HG-X11/CN-LG 11-speed	HG 10-speed	HG 10-speed
Combination name (Group name)		11-34T	11-25T 11-28T 12-25T 12-30T	11-25T 11-28T
Combination * Titanium gear	1	11-13-15-17-19-21-23-25-27-30-34T	11-12-13-14-15-17-19-21-23-25T	11-12-13-14-15-17-19-21-23-25T
	2	-	11-12-13-14-15-17-19-21-24-28T	11-12-13-14-15-17-19-21-24-28T
	3	-	12-13-14-15-16-17-19-21-23-25T	-
	4	-	12-13-14-15-17-19-21-24-27-30T	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 11-speed)	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	✓	✓	✓
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
Aluminum spider arm	Finish	-	-	-
	QTY (pcs)	1	1	1
Steel spider arm	Finish	Anodized	Anodized	Anodized
	QTY (pcs)	-	-	-
Titanium gear	Finish	-	-	-
	QTY (pcs)	0	0	0
Aluminum gear	Finish	-	-	-
	QTY (pcs)	0	0	0
Steel gear	Finish	-	-	-
	QTY (pcs)	11	10	10
Lock ring	Material	Nickel plated	Nickel plated	Nickel plated
	Finish	Steel	Aluminum	Steel
Average weight (g)		379	230 (11-25T) 242 (11-28T) 238 (11-25T) 275 (12-30T)	245 (11-25T) 255 (11-28T)
Note				

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG500-10	CS-HG50-9	CS-HG400-9
Type		HG	HG	HG
Rear speeds		10	9	9
Compatible chain		HG-X 10-speed/HG 10-speed/CN-HG500	HG 9-speed	HG 9-speed
Combination name (Group name)		11-25T 12-28T 11-32T 11-34T	11-30T (bQ) 12-25T 13-25T 14-25T	11-25T (G)
Combination * Titanium gear	1	11-12-13-14-15-17-19-21-23-25T	11-12-14-16-18-20-23-26-30T (bQ)	11-12-13-15-17-19-21-23-25T (G)
	2	12-13-14-15-17-19-21-23-25-28T	12-13-14-15-17-19-21-23-25T	-
	3	11-12-14-16-18-20-22-25-28-32T	13-14-15-16-17-19-21-23-25T	-
	4	11-13-15-17-19-21-23-26-30-34T	14-15-16-17-18-19-21-23-25T	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 11-speed)	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	✓	✓	✓
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
Aluminum spider arm	Finish	-	-	-
	QTY (pcs)	-	-	-
Steel spider arm	Finish	-	-	-
	QTY (pcs)	-	-	-
Titanium gear	Finish	-	-	-
	QTY (pcs)	0	0	0
Aluminum gear	Finish	-	-	-
	QTY (pcs)	0	0	0
Steel gear	Finish	-	-	-
	QTY (pcs)	10	9	9
Lock ring	Material	Nickel plated	Nickel plated	Ni-Ni plated
	Finish	Steel	Steel	Steel
Average weight (g)		-	-	-
Note				

Cassette Sprocket

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG50-8	CS-HG41-7	CS-HG20-7
Type		HG	HG	HG
Rear speeds		8	7	7
Compatible chain		CN-HG71	IG/HG	IG/HG
Combination name (Group name)		11-28T (bf) 11-30T (an) 11-32T (aw) 11-34T (Ca) 12-23T (U) 12-25T (W) 13-26T (V)	11-28T (ac)	12-28T (E)
Combination + Titanium gear	1	11-13-15-17-19-21-24-28T (bf)	11-13-15-18-21-24-28T (ac)	12-14-16-18-21-24-28T (E)
	2	11-13-15-17-20-23-26-30T (an)	-	-
	3	11-13-15-18-21-24-28-32T (aw)	-	-
	4	11-13-15-18-21-24-28-34T (Ca)	-	-
	5	12-13-14-15-17-19-21-23T (U)	-	-
	6	12-13-15-17-19-21-23-25T (W)	-	-
	7	13-14-15-17-19-21-23-26T (V)	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 11-speed)	-	-	-
	HG spline M (8/9/ 10-speed, MTB 11-speed)	✓	-	-
	HG spline S (7-speed)	-	✓	✓
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	0	0	0
	Finish	-	-	-
Aluminum gear	QTY (pcs)	0	0	0
	Finish	-	-	-
Steel gear	QTY (pcs)	8	7	7
	Finish	Nickel plated	Nickel plated	Brown&Black
Lock ring	Material	Steel	Steel	Steel
	Finish	Nickel plated	Phosphate coated	Phosphate coated
Average weight (g)		-	-	-
Note		-	-	-



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Front Hub (Rim/Disc Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	SHIMANO 105	SHIMANO 105
Model no.		HB-9000	HB-7710	HB-7600	HB-6800	HB-R7000	HB-R7070
Color	1 Hub shell	Series color	Silver	Silver	Series color	Silky black	Silky black
	1 Quick release	Series color	Silver	Silver	Series color	Black	-
	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
Spoke hole	24H	✓	-	-	-	-	-
	28H	✓	✓	✓	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
Axle fixing method		Quick release	Nut	Nut	Quick release	Quick release	12 mm E-THRU
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	✓	-	-	✓	✓	-
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-	-
	100 x 12	-	-	-	-	-	✓
	100 x 15	-	-	-	-	-	-
	110 x 20	-	-	-	-	-	-
Flange distance (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 (mm)		48.4	46 (Front), 52 (Rear)	75	50.4	48.4	52.8
Seal		Labyrinth & Contact	Dust Cap	Dust Cap	Labyrinth & Contact	Contact	Contact
Internal grease sleeve		✓	-	-	✓	✓	✓
Digital adjustment system		✓	-	-	✓	-	-
Bearing	Stainless ball	✓	✓	✓	-	-	-
	Cup	Super Finishing **	Polish	CBN, Polish	Polish	Polish	Polish
	Cone	CBN, Polish	CBN, Polish	CBN, Polish	CBN, Polish	CBN, Polish	CBN, Polish
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Steel	Steel	Aluminum	Steel	Aluminum
	Finish	Anodized	Plating	Plating	Anodized	-	Anodized
Quick release lever	Material	Aluminum	-	-	Aluminum	Aluminum	-
	Finish	Anodized	-	-	Anodized	Anodized	-
Quick release housing	Material	Anodized	-	-	Aluminum	Aluminum	-
	Finish	Silver	-	-	Anodized	Anodized	-
Quick release nut	Material	Anodized	-	-	Resin	Resin	-
	Finish	Silver	-	-	Black	Black	-
Radial lacing		✓	-	-	✓	✓	-
Average weight (g) (w/o axle and lock ring)		120	298 (rear w/ lock ring), 203 (front)	313 (rear LF w/ lock ring) 241 (front LF)	158	155	165
Note		* Aero spoke hole available(18H/24H) ** Super Finishing	For Track * Dishing Distance R (Single Thread): 2.75 mm / (Double Thread): 0			-	-

Front Hub (Rim/Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	TOURNEY A070
Model no.		HB-RS770	HB-RS400	HB-RS470	HB-RS300	HB-RM40
Color	1 Hub shell	Black/Silver	Black	Black	Silver	Black
	1 Quick release	-	Black	-	Silver	Black
	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. (mm)		100	100	100	100	100
Spoke hole	24H	-	-	-	-	-
	28H	✓	✓	✓	✓	-
	32H	✓	✓	✓	✓	✓
	36H	✓	✓	-	✓	✓
Axle fixing method		12 mm E-THRU	Quick release	12 mm E-THRU	Quick release	Quick release
Quick release skewer length (mm)	129	-	-	-	✓	✓
	133	-	✓	-	✓	✓
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-
	100 x 12	✓	-	✓	-	-
	100 x 15	-	-	-	-	-
	110 x 20	-	-	-	-	-
Flange distance (mm)		59.6	71.6	59.6	71.6	71.6
Offset (mm)		6	0	6.3	0	0
P.C.D. left / right (mm)		44	38	44	38	38
Flange diameter (mm)		52.8	48.4	52.8	48.4	46
Seal		Labyrinth & Contact	Contact	Contact	Contact	-
Internal grease sleeve		-	✓	✓	-	-
Digital adjustment system		-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	CBN	Polish	Polish	-	-
	Cone	CBN	CBN	CBN, Polish	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Steel	Aluminum	Steel	Steel
	Finish	Anodized	-	-	-	-
Quick release lever	Material	-	Aluminum	-	Aluminum	Steel
	Finish	-	Painted	-	Painted	Plated
Quick release housing	Material	-	Aluminum	-	Steel	Steel
	Finish	-	Painted	-	Painted	Plated
Quick release nut	Material	-	Resin	-	Resin	Resin
	Finish	-	Black	-	Black	Black
Radial lacing		-	✓	✓	✓	-
Average weight (g) (w/o axle and lock ring)		125	-	-	-	-
Note		-	-	-	-	-

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FREEHUB (Rim/Disc Brake)

Series		DURA-ACE	ULTEGRA	SHIMANO 105	SHIMANO 105	SHIMANO	SHIMANO
Model no.		FH-9000	FH-6800	FH-R7000	FH-R7070	FH-RS770	FH-RS400
Color	1 Hub shell	Series color	Series color	Silky black	Silky black	Black/Silver	Black
	1 Quick release	Series color	Series color	Black	Black	-	Black
	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 speeds		11/10*	11/10*	11/10*	11/10*	11/10*	11/10
O.L.D. (mm)		130	130	130	142	142	130
Spoke hole	24H	✓	-	-	-	-	-
	28H	✓	-	-	-	✓	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	-	-	-	-	-
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	-	-	✓	✓	-
CENTER LOCK mount cover option		-	-	-	✓	-	-
Axle fixing method		Quick release	Quick release	Quick release	12mm E-THRU	12mm E-THRU	Quick release
Quick release skewer length (mm)	161	-	-	-	-	-	-
	163	✓	✓	✓	-	-	✓
	166	-	-	-	-	-	-
	168	✓	✓	✓	-	-	✓
	170	-	-	-	-	-	-
	173	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	✓	✓	-
	148 x 12	-	-	-	-	-	-
	150 x 12	-	-	-	-	-	-
Flange distance (mm)		56.9 **	56.9	56.9	55.7	55.7	56.9
Offset (mm)		9.75 **	9.7	9.75	7.45	7.5	9.75
P.C.D. left / right (mm)		44/45	44/45	44/45	44/45	44/45	44/45
Flange diameter left / right (mm)		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 grease sleeve		✓	✓	✓	✓	-	✓
Digital adjustment system		✓	✓	-	-	-	-
Bearing	Stainless ball	✓	-	-	-	-	-
	Cup	CBN	Polish	Polish	Polish	CBN	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
FREEHUB body	Material	Titanium	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Steel
	Finish	Anodized	Anodized	-	-	Anodized	-
Quick release lever	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
	Finish	Anodized	Anodized	Anodized	-	-	Painted
	Color	9000SLV	Black	Black	-	-	Black
Quick release housing	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
	Finish	Anodized	Anodized	Anodized	-	-	Painted
Quick release nut	Material	Aluminum	Resin	Resin	-	-	Resin
	Finish	Anodized	Black	Black	-	-	Black
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Radial lacing		-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		247	330	368	361	302	-
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

FREEHUB (Rim/Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-RS470	FH-RS300	FH-TY500-7-QR	FH-TY500-7-NT
Color	1 Hub shell	Black	Silver	Black	Black
	1 Quick release	-	Silver	Black	-
	2 Hub shell	-	Black	-	-
	2 Quick release	-	Black	-	-
Brake type		CENTER LOCK disc brake	Rim brake	Rim brake	Rim brake
Rear speeds		11/10*	8/9/10	7	7
O.L.D. (mm)		142	130	130	130
Spoke hole	24H	-	-	-	-
	28H	✓	✓	-	-
	32H	✓	✓	✓	✓
	36H	-	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-	-
	Without	-	-	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-
	Without	✓	-	✓	✓
CENTER LOCK mount cover option		-	-	-	-
Axle fixing method		12mm E-THRU	Quick release	Quick release	Nut
Quick release skewer length (mm)	161	-	-	✓	-
	163	-	✓	-	-
	166	-	-	-	-
	168	-	✓	-	-
	170	-	-	-	-
	173	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-
	135 x 12	-	-	-	-
	142 x 12	✓	-	-	-
	148 x 12	-	-	-	-
	150 x 12	-	-	-	-
Flange distance (mm)		55.7	57.9	57.4	57.4
Offset (mm)		7.45	8.4	7.1	7.1
P.C.D. left / right (mm)		44/45	45	45	45
Flange diameter left / right (mm)		52.8/53.8	53.8	53.8	53.8
Seal	Hub	Contact	Contact	-	-
	FREEHUB body	Contact	Contact	-	-
Internal grease sleeve		✓	✓	-	-
Digital adjustment system		-	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	Polish	-	-	-
	Cone	CBN	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted (Black)	Painted (Black)
Axle	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
Quick release lever	Material	-	Aluminum	Steel	-
	Finish	-	Painted	Plated	-
	Color	-	Black	Black	-
Quick release housing	Material	-	Steel	Steel	-
	Finish	-	Painted	Painted	-
Quick release nut	Material	-	Resin	Steel + Resin	-
	Finish	-	Black	-	-
Disc brake rotor lock ring	Material	-	-	-	-
	Finish	-	-	-	-
Radial lacing		-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		-	-	-	-
Note		* 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)

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BC

RD

FD

FC

FC

BB

BB

CS

HB

FH

WH

WH

HP

Wheel (Rim Brake)

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	
Model no.	WH-R9200-C60-HR-TU-F	WH-R9200-C60-HR-TU-R	WH-R9200-C50-TU-F	WH-R9200-C50-TU-R	WH-R9200-C36-TU-F	WH-R9200-C36-TU-R	
Model name	WH-R9200-C60-HR-TU	WH-R9200-C60-HR-TU	WH-R9200-C50-TU	WH-R9200-C50-TU	WH-R9200-C36-TU	WH-R9200-C36-TU	
Specification	F	R	F	R	F	R	
Color	1 Hub shell	Series Color	Series Color	Series Color	Series Color	Series Color	
	1 Quick release	Series Color	Series Color	Series Color	Series Color	Series Color	
	2 Hub shell	-	-	-	-	-	
	2 Quick release	-	-	-	-	-	
Front/Rear	Front	Rear	Front	Rear	Front	Rear	
Brake type	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	
Rear speeds	-	12	-	12	-	12	
O.L.D. (mm)	100	130	100	130	100	130	
Wheel size	700C	700C	700C	700C	700C	700C	
Rim	Height (mm)	60	60	50	50	36	36
	Internal width (mm)	-	-	-	-	-	-
	External width (mm)	28	28	28	28	28	28
	Rim joint	-	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	-	-	-	-	-	-
Spokes	Number	16	21	16	21	16	21
	Straight pull	✓	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓	✓
	Diameter	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0
Axle fixing method	Quick release	Quick release	Quick release	Quick release	Quick release	Quick release	
Quick release skewer length (mm)	133	✓	-	✓	-	✓	
	163	-	✓	-	✓	-	
	168	-	✓	-	✓	-	
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-	
	142 x 12	-	-	-	-	-	
Spline type	MICRO SPLINE	-	-	-	-	-	
	HG spline L2 (ROAD 12-speed dedicated)	-	✓	-	✓	-	
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-	
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	-	-	
HG spline S (7-speed)	-	-	-	-	-	-	
Engagement type	-	Direct engagement	-	Direct engagement	-	Direct engagement	
Bearing	Stainless ball	✓	✓	✓	✓	✓	
	Cup	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	
Disc mount	CENTER LOCK	-	-	-	-	-	
	CENTER LOCK mount cover option	-	-	-	-	-	
	140 mm disc brake rotor compatible	-	-	-	-	-	
OPTBAL (2:1)	-	✓	-	✓	-	✓	
D2 rim	-	-	-	-	-	-	
Digital adjustment system	-	-	-	-	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal grease sleeve	-	-	-	-	-	-	
Tire	Type	Tubular	Tubular	Tubular	Tubular	Tubular	
	Recommended size	25-28 - 32-28	25-28 - 32-28	25-28 - 32-28	25-28 - 32-28	25-28 - 32-28	25-28 - 32-28
Rim	Material	CFRP	CFRP	CFRP	CFRP	CFRP	
	Finish	Painting	Painting	Painting	Painting	Painting	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Series Color	Series Color	Series Color	Series Color	Series Color	
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Series Color	Series Color	Series Color	Series Color	Series Color	
FREEHUB body	Material	-	Aluminum	-	Aluminum	-	
	Finish	-	Anodized	-	Anodized	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Quick release housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Quick release nut	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Series Color	Series Color	Series Color	Series Color	Series Color	
Compatible spoke protector	-	CP-W124	-	CP-W124	-	CP-W124	
Reflector	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	
	AS	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	
	DIN	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	
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	653	796	586	723	602	684	
Note							

Wheel (Rim Brake)

Series	DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.	WH-R9100-C60-TU-F	WH-R9100-C60-TU-R	WH-RS700-C30-TL-F	WH-RS700-C30-TL-R	WH-RS500-TL-F	WH-RS500-TL-R	
Model name	WH-R9100-C60-TU	WH-R9100-C60-TU-R	WH-RS700-C30-TL	WH-RS700-C30-TL	WH-RS500-TL	WH-RS500-TL	
Specification	F	R	F	R	F	R	
Color	1 Hub shell	Series color	Silver	Silver	Silver	Silver	
	1 Quick release	Series color	Silver	Silver	Silver	Silver	
	2 Hub shell	-	-	-	-	-	
	2 Quick release	-	-	-	-	-	
Front/Rear	Front	Rear	Front	Rear	Front	Rear	
Brake type	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	
Rear speeds	-	11/10*	-	11/10*	-	11/10*	
O.L.D. (mm)	100	130	100	130	100	130	
Wheel size	700C	700C	622 x 15C	622 x 15C	622 x 15C	622 x 15C	
Rim	Height (mm)	60	60	24	31	24	24
	Internal width (mm)	-	-	15	15	15	15
	External width (mm)	28	28	20.8	20.8	20.8	20.8
	Rim joint	-	-	Welded	Welded	Welded	Welded
	Brazed reinforcement	-	-	-	-	✓	✓
	OFFSET RIM	-	-	-	✓	-	✓
	Requires rim tape	-	-	✓	✓	-	-
Spokes	Number	16	21	16	21	16	20
	Straight pull	✓	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓	✓
	Diameter	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.5-2.0	2.0-1.8-2.0	2.0-1.5-2.0	2.0-1.8-2.0
Axle fixing method	Quick release	Quick release	Quick release	Quick release	Quick release	Quick release	
Quick release skewer length (mm)	133	✓	-	✓	✓	-	
	163	-	✓	-	✓	✓	
	168	-	✓	-	✓	✓	
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-	
	142 x 12	-	-	-	-	-	
Spline type	MICRO SPLINE	-	-	-	-	-	
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	
	HG spline L (ROAD 11/12-speed)	-	✓	-	✓	-	✓
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	-	-	-
HG spline S (7-speed)	-	-	-	-	-	-	
Engagement type	-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet	
Bearing	Stainless ball	✓	✓	✓	-	-	
	Cup	CBN finish	CBN finish	CBN finish	CBN finish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN/Polish	CBN/Polish
Disc mount	CENTER LOCK	-	-	-	-	-	
	CENTER LOCK mount cover option	-	-	-	-	-	
	140 mm disc brake rotor compatible	-	-	-	-	-	
OPTBAL (2:1)	-	✓	-	✓	-	-	
D2 rim	✓	✓	-	-	-	-	
Digital adjustment system	✓	✓	-	-	✓	✓	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	-	Contact	Contact	Contact	Contact	
Internal grease sleeve	✓	✓	✓	✓	✓	✓	
Tire	Type	Tubular	Tubular	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	23-28 - 28-28	23-28 - 28-28	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622
Rim	Material	Carbon	Carbon	Carbon+AL painting	Carbon+AL painting	Aluminum	Aluminum
	Finish	Painting	Painting	-	-	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Silver	Silver	Black	Black	Black	Black
FREEHUB body	Material	-	Titanium (Rear)	-	Steel	-	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release nut	Material	Aluminum	Aluminum	Resin	Resin	Resin	Resin
	Finish	Series color	Series color	Black	Black	Black	Black
Compatible spoke protector	-	CP-W124	-	CP-W124	-	CP-WH23 (23-28T) CP-W120 (32T) CP-W020 (10-speed)	
Reflector	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
	AS	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	CATEYE RR-550-WUA SW
	DIN	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 SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	666	830	616	924	705	944	
Note	-	* The adapter is needed to use 10-speed cassette sprocket	-	* The adapter is needed to use 10-speed cassette sprocket	-	* The adapter is needed to use 10-speed cassette sprocket	

Wheel (Rim Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.	WH-RS300-CL-F	WH-RS300-CL-R	WH-RS330-CL-F	WH-RS330-CL-R	WH-RS100-CL-F	WH-RS100-CL-R	
Model name	WH-RS300-CL	WH-RS300-CL	WH-RS330-CL	WH-RS330-CL	WH-RS100-CL	WH-RS100-CL	
Specification	F	R	F	R	F	R	
Color	1 Hub shell	Black	Black	Black	Black	Black	
	1 Quick release	Black	Black	Black	Black	Black	
	2 Hub shell	-	-	-	-	-	
	2 Quick release	-	-	-	-	-	
Front/Rear	Front	Rear	Front	Rear	Front	Rear	
Brake type	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	
Rear speeds	-	11/10*	-	11/10*	-	11/10*	
O.L.D. (mm)	100	130	100	130	100	130	
Wheel size	622 x 17C	622 x 17C	622 x 15C	622 x 15C	622 x 17C	622 x 17C	
Rim	Height (mm)	24	24	30	30	24	
	Internal width (mm)	17	17	15	15	17	
	External width (mm)	23.2	23.2	20.8	20.8	23.2	
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	✓	-	✓	-	✓
	Requires rim tape	18-622	18-622	✓	✓	18-622	18-622
Spokes	Number	16	20	16	21	20	
	Straight pull	✓	✓	✓	✓	-	
	Bladed	✓	✓	✓	✓	-	
	Butted	✓	✓	✓	✓	-	
	Diameter	2	2	2	2	2	
Axle fixing method	Quick release	Quick release	Quick release	Quick release	Quick release	Quick release	
Quick release skewer length (mm)	133	✓	-	✓	✓	-	
	163	-	✓	-	✓	✓	
	168	-	✓	-	✓	✓	
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-	
	142 x 12	-	-	-	-	-	
Spline type	MICRO SPLINE	-	-	-	-	-	
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	
	HG spline L (ROAD 11/12-speed)	-	✓	-	✓	-	
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	-	-	
	HG spline S (7-speed)	-	-	-	-	-	
Engagement type	-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet	
Bearing	Stainless ball	-	-	-	-	-	
	Cup	Polish	Polish	Polish	Polish	Polish	
	Cone	CBN	CBN	CBN/Polish	CBN/Polish	CBN	
Disc mount	CENTER LOCK	-	-	-	-	-	
	CENTER LOCK mount cover option	-	-	-	-	-	
	140 mm disc brake rotor compatible	-	-	-	-	-	
OPTBAL (2:1)	-	-	-	✓	-	-	
D2 rim	-	-	-	-	-	-	
Digital adjustment system	-	-	-	-	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	-	Contact	-	Contact	Contact	
Internal grease sleeve	✓	✓	✓	✓	-	-	
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher	
	Recommended size	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Black	Black	Painted	Painted	Black	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	Black	Black	
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Brass	
	Finish	Black Anodized	Black Anodized	Black	Black	Silver	
FREEHUB body	Material	-	Steel	-	Steel	-	
	Finish	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	-	Painted	Painted	
Axle	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	-	Painted	Painted	
Quick release housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	
	Finish	Anodized	Anodized	Anodized	Anodized	Black	
Quick release nut	Material	Resin	Resin	Resin	Resin	Resin	
	Finish	Black	Black	Black	Black	Black	
Compatible spoke protector	-	CP-WH23 (23-28T) CP-W120 (32T)	-	CP-W124	-	CP-WH24 CP-FH53 (34T)	
Reflector	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	
	AS	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	
	DIN	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	
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	770	1057	875	1176	827	1105	
Note	-	* The adapter is needed to use 10-speed cassette sprocket	-	* The adapter is needed to use 10-speed cassette sprocket	-	* The adapter is needed to use 10-speed cassette sprocket	

Wheel (Rim Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-RS010-CL-F	WH-RS010-CL-R	WH-R501-A-CL-F	WH-R501-A-CL-R	WH-R501-CL-F	WH-R501-CL-R
Model name	WH-RS010-CL	WH-RS010-CL	WH-R501-A-CL	WH-R501-A-CL	WH-R501-CL	WH-R501-CL
Specification	F	R	F	R	F	R
Color	1 Hub shell	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	Black	Black
	2 Hub shell	-	-	Silver	Silver	Silver
	2 Quick release	Black	Black	Black	Black	Black
Front/Rear	Front	Rear	Front	Rear	Front	Rear
Brake type	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
Rear speeds	-	11/10*	-	8/9/10	-	8/9/10
O.L.D. (mm)	100	130	100	130	100	130
Wheel size	622 x 15C	622 x 15C	622 x 15C	622 x 15C	622 x 15C	622 x 15C
Rim	Height (mm)	24	24	24	24	24
	Internal width (mm)	15	15	15	15	15
	External width (mm)	20.8	20.8	20.8	20.8	20.8
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	✓	-	-	-
	Requires rim tape	✓	✓	✓	✓	✓
Spokes	Number	20	24	20	24	20
	Straight pull	-	-	-	-	-
	Bladed	-	-	✓	✓	-
	Butted	-	-	-	-	-
	Diameter	2	2	2	2	2
Axle fixing method	Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
Quick release skewer length (mm)	133	✓	-	✓	✓	-
	163	-	✓	-	✓	✓
	168	-	✓	-	✓	✓
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-
	142 x 12	-	-	-	-	-
Spline type	MICRO SPLINE	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-
	HG spline L (ROAD 11/12-speed)	-	✓	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	✓	-
	HG spline S (7-speed)	-	-	-	-	-
Engagement type	-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet
Bearing	Stainless ball	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
Disc mount	CENTER LOCK	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-
	140 mm disc brake rotor compatible	-	-	-	-	-
OPTBAL (2:1)	-	-	-	-	-	-
D2 rim	-	-	-	-	-	-
Digital adjustment system	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	Contact
Internal grease sleeve	-	-	-	-	-	-
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass
	Finish	Silver	Silver	Silver	Silver	Silver
FREEHUB body	Material	-	Steel	-	Steel	Steel
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Quick release housing	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Quick release nut	Material	Resin	Resin	Resin	Resin	Resin
	Finish	Black	Black	Black	Black	Black
Compatible spoke protector	-	CP-WH24 CP-FH53 (34T)	-	CP-FH06 CP-FH31 CP-FH46 CP-WH24	-	CP-FH06 CP-FH31 CP-FH46 CP-WH24
Reflector	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
	AS	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
	DIN	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
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	818	1102	820	1069	820	1069
Note		* The adapter is needed to use 10-speed cassette sprocket				

ST
ST
SL
BL
BL
BR
BR
BR
BR
BR
BC
RD
FD
FC
FC
BB
BB
CS
HB
FH
WH
WH
HP

Wheel (Disc Brake)

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.	WH-R9270-C60-HR-TU-F	WH-R9270-C60-HR-TU-R	WH-R9270-C60-HR-TL-F	WH-R9270-C60-HR-TL-R	WH-R9270-C50-TU-F	WH-R9270-C50-TU-R
Model name	WH-R9270-C60-HR-TU	WH-R9270-C60-HR-TU	WH-R9270-C60-HR-TL	WH-R9270-C60-HR-TL	WH-R9270-C50-TU	WH-R9270-C50-TU
Specification	F	R	F	R	F	R
Color	1 Hub shell	Series Color	Series Color	Series Color	Series Color	Series Color
	1 Quick release	-	-	-	-	-
	2 Hub shell	-	-	-	-	-
	2 Quick release	-	-	-	-	-
Front/Rear	Front	Rear	Front	Rear	Front	Rear
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
Rear speeds	-	12	-	12	-	12
O.L.D. (mm)	100	142	100	142	100	142
Wheel size	700C	700C	622 x 21C	622 x 21C	700C	700C
Rim	Height (mm)	60	60	60	60	50
	Internal width (mm)	-	-	21	21	-
	External width (mm)	28	28	28	28	28
	Rim joint	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
	Requires rim tape	-	-	✓	✓	-
Spokes	Number	24	24	24	24	24
	Straight pull	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓
	Diameter	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.5-2.0
Axle fixing 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
Quick release skewer length (mm)	133	-	-	-	-	-
	163	-	-	-	-	-
	168	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-
	100 x 12	✓	-	✓	-	✓
	142 x 12	-	✓	-	✓	✓
Spline type	MICRO SPLINE	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	✓	-	✓	✓
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-
Engagement type	-	Direct engagement	-	Direct engagement	-	Direct engagement
Bearing	Stainless ball	✓	✓	✓	✓	✓
	Cup	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-	-
	140 mm disc brake rotor compatible	✓	✓	✓	✓	✓
OPTBAL (2:1)	✓	✓	✓	✓	-	✓
D2 rim	✓	-	✓	✓	✓	-
Digital adjustment system	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	Contact
Internal grease sleeve	-	-	-	-	-	-
Tire	Type	Tubular	Tubular	Tubeless	Tubeless	Tubular
	Recommended size	25-28 inch - 32-28 inch	25-28 inch - 32-28 inch	25-622 - 32-622	25-622 - 32-622	25-28 inch - 32-28 inch
Rim	Material	CFRP	CFRP	CFRP	CFRP	CFRP
	Finish	Painting	Painting	Painting	Painting	Painting
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Series Color	Series Color	Series Color	Series Color	Series Color
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Series Color	Series Color	Series Color	Series Color	Series Color
FREEHUB body	Material	-	Aluminum	-	Aluminum	Aluminum
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Compatible spoke protector	-	CP-WR92C	-	CP-WR92C	-	CP-WR92A
Reflector	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
	AS	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
	DIN	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
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	667	770	751	858	610	723
Note						

Wheel (Disc Brake)

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	
Model no.	WH-R9270-C50-TL-F	WH-R9270-C50-TL-R	WH-R9270-C36-TU-F	WH-R9270-C36-TU-R	WH-R9270-C36-TL-F	WH-R9270-C36-TL-R	
Model name	WH-R9270-C50-TL	WH-R9270-C50-TL	WH-R9270-C36-TU	WH-R9270-C36-TU	WH-R9270-C36-TL	WH-R9270-C36-TL	
Specification	F	R	F	R	F	R	
Color	1 Hub shell	Series Color	Series Color	Series Color	Series Color	Series Color	
	1 Quick release	-	-	-	-	-	
	2 Hub shell	-	-	-	-	-	
	2 Quick release	-	-	-	-	-	
Front/Rear	Front	Rear	Front	Rear	Front	Rear	
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	
Rear speeds	-	12	-	12	-	12	
O.L.D. (mm)	100	142	100	142	100	142	
Wheel size	622 x 21C	622 x 21C	700C	700C	622 x 21C	622 x 21C	
Rim	Height (mm)	50	50	36	36	36	36
	Internal width (mm)	21	21	-	-	21	21
	External width (mm)	28	28	28	28	28	28
	Rim joint	-	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓	✓	-	-	✓	✓
Spokes	Number	24	24	24	24	24	24
	Straight pull	✓	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓	✓
	Diameter	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0
Axle fixing 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	
Quick release skewer length (mm)	133	-	-	-	-	-	
	163	-	-	-	-	-	
	168	-	-	-	-	-	
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-	
	100 x 12	✓	-	✓	-	✓	
	142 x 12	-	✓	-	✓	-	
Spline type	MICRO SPLINE	-	-	-	-	-	
	HG spline L2 (ROAD 12-speed dedicated)	-	✓	-	✓	-	
	HG spline L (ROAD 11/12-speed)	-	-	-	-	-	
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	-	-	
	HG spline S (7-speed)	-	-	-	-	-	
Engagement type	-	Direct engagement	-	Direct engagement	-	Direct engagement	
Bearing	Stainless ball	✓	✓	✓	✓	✓	
	Cup	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓	
	CENTER LOCK mount cover option	-	-	-	-	-	
	140 mm disc brake rotor compatible	✓	✓	✓	✓	✓	
OPTBAL (2:1)	-	✓	-	✓	-	✓	
D2 rim	✓	✓	✓	✓	✓	✓	
Digital adjustment system	-	-	-	-	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	-	Contact	-	Contact	-	
Internal grease sleeve	-	-	-	-	-	-	
Tire	Type	Tubeless	Tubeless	Tubular	Tubular	Tubeless	Tubeless
	Recommended size	25-622 - 32-622	25-622 - 32-622	25-28 inch - 32-28 inch	25-28 inch - 32-28 inch	25-622 - 32-622	25-622 - 32-622
Rim	Material	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
	Finish	Painting	Painting	Painting	Painting	Painting	Painting
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Series Color	Series Color	Series Color	Series Color	Series Color	Series Color
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Series Color	Series Color	Series Color	Series Color	Series Color	Series Color
FREEHUB body	Material	-	Aluminum	-	Aluminum	-	Aluminum
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Compatible spoke protector	-	CP-WR92A	-	CP-WR92A	-	CP-WR92A	
Reflector	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
	AS	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	CATEYE RR-550-WUA SW
	DIN	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 SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	674	787	522	632	620	730	
Note							

Wheel (Disc Brake)

Series	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.	WH-R8170-C60-TL-F	WH-R8170-C60-TL-R	WH-R8170-C50-TL-F	WH-R8170-C50-TL-R	WH-R8170-C36-TL-F	WH-R8170-C36-TL-R
Model name	WH-R8170-C60-TL	WH-R8170-C60-TL	WH-R8170-C50-TL	WH-R8170-C50-TL	WH-R8170-C36-TL	WH-R8170-C36-TL
Specification	F	R	F	R	F	R
Color	1 Hub shell	Series Color	Series Color	Series Color	Series Color	Series Color
	1 Quick release	-	-	-	-	-
	2 Hub shell	-	-	-	-	-
	2 Quick release	-	-	-	-	-
Front/Rear	Front	Rear	Front	Rear	Front	Rear
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
Rear speeds	-	11/12	-	11/12	-	11/12
O.L.D. (mm)	100	142	100	142	100	142
Wheel size	622 x 21C	622 x 21C	622 x 21C	622 x 21C	622 x 21C	622 x 21C
Rim	Height (mm)	60	60	50	50	36
	Internal width (mm)	21	21	21	21	21
	External width (mm)	28	28	28	28	28
	Rim joint	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
	Requires rim tape	✓	✓	✓	✓	✓
Spokes	Number	24	24	24	24	24
	Straight pull	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓
	Diameter	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0
Axle fixing 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
Quick release skewer length (mm)	133	-	-	-	-	-
	163	-	-	-	-	-
	168	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-
	100 x 12	✓	-	✓	-	✓
	142 x 12	-	✓	-	✓	✓
Spline type	MICRO SPLINE	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-
	HG spline L (ROAD 11/12-speed)	-	✓	-	✓	-
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-
Engagement type	-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet
Bearing	Stainless ball	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish
	Cone	CBN Finish	CBN Finish	CBN Finish	CBN Finish	CBN Finish
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-	-
	140 mm disc brake rotor compatible	✓	✓	✓	✓	✓
OPTBAL (2:1)	-	✓	-	✓	-	✓
D2 rim	✓	✓	✓	✓	✓	✓
Digital adjustment system	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-
Internal grease sleeve	✓	✓	✓	✓	✓	✓
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	25-622 - 32-622	25-622 - 32-622	25-622 - 32-622	25-622 - 32-622	25-622 - 32-622
Rim	Material	CFRP	CFRP	CFRP	CFRP	CFRP
	Finish	Painting	Painting	Painting	Painting	Painting
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Series Color	Series Color	Series Color	Series Color	Series Color
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Series Color	Series Color	Series Color	Series Color	Series Color
FREEHUB body	Material	-	Steel	-	Steel	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Compatible spoke protector	-	CP-WR81A	-	CP-WR81A	-	CP-WR81A
Reflector	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
	AS	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
	DIN	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
	DIN	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
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	738	911	698	872	657	831
Note						

Wheel (Disc Brake)

Series		DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-R9170-C60-TU-F12	WH-R9170-C60-TU-R12	WH-RS370-TL-F12	WH-RS370-TL-R12	WH-RS171-CL-F12-700C	WH-RS171-CL-F12-650B
Model name Specification		WH-R9170-C60-TU-F12	WH-R9170-C60-TU-R12	WH-RS370-TL-F12	WH-RS370-TL-R12	WH-RS171-CL-F12-700c	WH-RS171-CL-F12-650b
Color	1 Hub shell	Series color	Series color	Black	Black	Black	Black
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Rear	Front	Rear	Front	Front
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	Disc brake	Disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		-	11/10*	-	11/10*	-	-
O.L.D. (mm)		100	142	100	142	100	100
Wheel size		700C	700C	622 x 19C	622 x 19C	622 x 19C (700c)	584 x 19C (650b)
Rim	Height (mm)	60	60	19	19	19	19
	Internal width (mm)	-	-	-	-	-	-
	External width (mm)	28	28	24.6	24.6	24.6	24.6
	Rim joint	-	-	Welded	Welded	Sleeved	Sleeved
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	-	-	✓	✓	✓	✓
Spokes	Number	24	24	24	24	28	28
	Straight pull	✓	✓	✓	✓	-	-
	Bladed	✓	✓	-	-	-	-
	Butted	✓	✓	-	-	-	-
Diameter		2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2	2
Axle fixing 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
Quick release skewer length (mm)	133	-	-	-	-	-	-
	163	-	-	-	-	-	-
	168	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-	-
	100 x 12	✓	-	✓	-	✓	✓
	142 x 12	-	✓	-	✓	-	-
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 11/12-speed)	-	✓	-	✓	-	✓
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	-	-	-	-	-
Bearing	Stainless ball	✓	✓	-	-	-	-
	Cup	CBN finish	CBN finish	Polish	Polish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-	-	-
	140 mm disc brake rotor compatible	✓	✓	✓	✓	✓	✓
OPTBAL (2:1)		-	✓	-	-	-	-
D2 rim		✓	✓	-	-	-	-
Digital adjustment system		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-	-
Internal grease sleeve		✓	✓	✓	✓	✓	✓
Tire	Type	Tubular	Tubular	Tubeless	Tubeless	Clincher	Clincher
	Recommended size	23-622 - 32-622	23-622 - 32-622	28-622 - 45-622	28-622 - 45-622	28-622 - 42-622	28-584 - 42-584
Rim	Material	Carbon	Carbon	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized/Painted	Anodized/Painted	Anodized/Painted	Anodized/Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Brass	Brass
	Finish	Silver	Silver	Black	Black	Silver	Silver
FREEHUB body	Material	-	Titanium	-	Steel	-	-
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Steel	Aluminum	Aluminum
	Finish	Anodized	Anodized	-	-	-	-
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Compatible spoke protector		-	CP-W1460	-	CP-FH08 (23T-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 11/10-speed)	-	-
Reflector	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
	AS	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	CATEYE RR-550-WUA SW
	DIN	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 SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		678	829	890	1090	897	867
Note		-	* The adapter is needed to use 10-speed cassette sprocket	-	* The adapter is needed to use 10-speed cassette sprocket	-	-

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Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	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-R12-700c	WH-RS171-CL-R12-650b	WH-RX010-CL-F	WH-RX010-CL-R
Specification					
Color	1 Hub shell	Black	Black	Black	Black
	1 Quick release	-	-	Black	Black
	2 Hub shell	-	-	-	-
	2 Quick release	-	-	-	-
Front/Rear		Rear	Rear	Front	Rear
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		11/10*	11/10*	-	11/10*
O.L.D. (mm)		142	142	100	135
Wheel size		622 x 19C (700c)	584 x 19C (650b)	622 x 17C	622 x 17C
Rim	Height (mm)	19	19	24	24
	Internal width (mm)	-	-	-	-
	External width (mm)	24.6	24.6	23	23
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	-	-	-	-
	OFFSET RIM	-	-	-	-
	Requires rim tape	✓	✓	✓	✓
Spokes	Number	28	28	28	28
	Straight pull	-	-	-	-
	Bladed	-	-	-	-
	Butted	-	-	-	-
Diameter		2	2	2	2
Axle fixing method		12 mm E-THRU	12 mm E-THRU	Quick release	Quick release
Quick release skewer length (mm)	133	-	-	✓	-
	163	-	-	-	-
	168	-	-	-	✓
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-
	100 x 12	-	-	-	-
	142 x 12	✓	✓	-	-
Spline type	MICRO SPLINE	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-
	HG spline L (ROAD 11/12-speed)	-	✓	-	✓
	HG spline M (8/9/10-speed, MTB 11-speed)	-	-	-	-
	HG spline S (7-speed)	-	-	-	-
Engagement type		Pawl ratchet	Pawl ratchet	-	Pawl ratchet
Bearing	Stainless ball	-	-	-	-
	Cup	Polish	Polish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish
Disc mount	CENTER LOCK	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-
	140 mm disc brake rotor compatible	✓	✓	✓	✓
OPTBAL (2:1)		-	-	-	-
D2 rim		-	-	-	-
Digital adjustment system		-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	Contact	Contact	Contact
Internal grease sleeve		✓	✓	✓	✓
Tire	Type	Clincher	Clincher	Clincher	Clincher
	Recommended size	28-622 - 42-622	28-584 - 42-584	25-622 - 38-622	25-622 - 38-622
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized/Painted	Anodized/Painted	Anodized (Black)	Anodized (Black)
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass
	Finish	Silver	Silver	Silver	Silver
FREEHUB body	Material	Steel	Steel	-	Steel
	Finish	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Steel	Steel
	Finish	-	-	-	-
Quick release lever	Material	-	-	Aluminum	Aluminum
	Finish	-	-	Painted	Painted
Quick release housing	Material	-	-	Steel	Steel
	Finish	-	-	Painted	Painted
Quick release nut	Material	-	-	Resin	Resin
	Finish	-	-	Black	Black
Compatible spoke protector		CP-FH08 (23T-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 11/10-speed)	CP-FH08 (23T-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 11/10-speed)	-	CP-FH08/CP-WH12 (11-speed), CP-FH40/CP-FH41/CP-WH12 (10-speed)
Reflector	JIS/CPSC	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
	AS	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
	DIN	-	-	-	-
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		1098	1067	982	1177
Note		* The adapter is needed to use 10-speed cassette sprocket	* The adapter is needed to use 10-speed cassette sprocket		* The adapter is needed to use 10-speed cassette sprocket

Head Parts

Series		DURA-ACE
Model no.		HP-7410
Size		JIS ENGLISH
Thread		BC 1 x 24 T.P.I.
Sealed cartridge bearings		✓
Stack height (mm)		37.6
Lock nut	Material	Aluminum
	Finish	Anodized
Upper / Lower cups	Material	Aluminum
	Finish	Anodized
Upper stem cone	Material	Aluminum
	Finish	Anodized
Stem cone	Material	Aluminum
	Finish	Anodized
Average weight (g)		101
Note		

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FREEHUB (Disc Brake)	202	FH
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Internal Geared Hub

Series		ALFINE	ALFINE	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-S7001-11	SG-S7001-8	SG-C7002-5CD	SG-C7000-5V	SG-C7000-5R	SG-C7000-5C
Function name		INTER-11	INTER-8	INTER-5E	INTER-5E	INTER-5E	INTER-5E
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	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	-
Rear speeds		11	8	5	5	5	5
Gear ratio	Total	409%	307%	263%	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
	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 structure		Top Normal	Top Normal	Top-Normal	Top Normal	Top Normal	Top Normal
Silent clutch		✓	✓	✓	✓	✓	✓
Gear change support mechanism		✓	✓	✓	✓	✓	✓
Shifting POWER MODULATOR		✓	✓	✓	✓	✓	✓
Driving efficiency		High	High	HIGH	High	High	High
w/ Left hand dust cap		-	-	-	✓	-	-
O.L.D. (mm)		135	135	135	135	135	135
Spoke size		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	-	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	-	-	-
	184	-	-	-	-	-	-
	187	✓	✓	✓	✓	✓	✓
	193	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Flange distance (mm)		57.3	57.3	58.3	58.3	58.3	58.3
Flange diameter (mm)		104.3	104.3	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset (mm)		3.2	3.2	3.7	3.2	3.2	3.7
P.C.D. left / right (mm)		92.6	92.6	92.6	92.6	92.6	92.6
Hub shell	material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Average weight (g)		1665	1670	2010	1670	1670	1970
Note		-	-	-	-	-	-

Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-C7000-5D	SG-C6011-8V	SG-C6011-8R	SG-C6001-8V	SG-C6001-8R	SG-C6001-8C
Function name		INTER-5E	INTER-8	INTER-8	INTER-8	INTER-8	INTER-8
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Brake type	Mount type	CENTER LOCK disc brake	V-BRAKE	INTER-M	V-BRAKE	INTER-M	Coaster Brake
	Recommended model	-	-	BR-C6000 BR-C3010 BR-C3000	-	BR-C6000 BR-C3010 BR-C3000	-
Rear speeds		5	8	8	8	8	8
Gear ratio	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
	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 structure		Top Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal
Silent clutch		✓	✓	✓	✓	✓	✓
Gear change support mechanism		✓	✓	✓	✓	✓	✓
Shifting POWER MODULATOR		✓	✓	✓	✓	✓	✓
Driving efficiency		High	High	High	Standard	Standard	Standard
w/ Left hand dust cap		-	✓	-	✓	-	-
O.L.D. (mm)		135	132	132	132	132	132
Spoke size		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	-	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
	Others	-	-	40H	-	40H	-
Axle length (mm)	182	-	-	-	-	-	-
	184	-	✓	✓	✓	✓	✓
	187	✓	-	-	-	-	-
	193	-	-	-	-	-	-
	Others	-	-	-	203	203	-
Flange distance (mm)		57.3	58.3	58.3	58.3	58.3	58.3
Flange diameter (mm)		105.2	105.2	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset (mm)		3.2	2.7	2.7	2.7	2.7	2.55
P.C.D. left / right (mm)		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 weight (g)		1650	1685	1660	1735	1710	2040
Note		-	-	-	-	-	-

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Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-C6001-8D	SG-C6001-8CD	SG-C3001-7R	SG-C3001-7C	SG-C3001-7C-DX	SG-C3001-7D
Function name		INTER-8	INTER-8	INTER-7	INTER-7	INTER-7	INTER-7
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	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	-	-	-
Rear speeds		8	8	7	7	7	7
Gear ratio	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
	5	1	1	1.145	1.145	1.145	1.145
	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		✓	✓	-	-	-	-
Gear change support mechanism		✓	✓	-	-	-	-
Shifting POWER MODULATOR		✓	✓	-	-	-	-
Driving efficiency		Standard	Standard	Standard	Standard	Standard	Standard
w/ Left hand dust cap		-	-	-	-	-	-
O.L.D. (mm)		135	135	130	127	127	135
Spoke size		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	-	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	✓	-	-	-
	184	-	-	-	-	✓	-
	187	✓	✓	-	-	-	✓
	193	-	-	-	-	-	-
	Others	-	-	201	176	176	-
Flange distance (mm)		57.3	58.3	54.6	56.2	56.2	54.6
Flange diameter (mm)		105.2	105.2	99.6	92.5	92.5	99.6
Flange width (mm)	Right	3.2	3.2	3.2	2.3	2.3	3.2
	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 / right (mm)		92.6	92.6	87	83.5	83.5	87
Hub shell	material	Aluminum	Aluminum	Aluminum	Steel	Steel	Aluminum
	finish	Painted	Painted	Painted	Plated	Plated+ Painted(clear)	Painted
Average weight (g)		1730	2090	1495	1915	1915	1470
Note		-	-	-	-	-	-

Internal Geared Hub

Series	NEXUS		NEXUS		NEXUS		NEXUS	
Model no.	SG-5R30	SG-5R30-V5	SG-5R35-V5	SG-3R75-B	SG-3R40	SG-3R42		
Function name	INTER-5	INTER-5	INTER-5	INTER-3	INTER-3	INTER-3		
Color	1	Silver	Silver	Silver	Silver	Silver	Silver	
	2	-	-	Black	-	-	-	
	3	-	-	-	-	-	-	
Brake type	Mount type	INTER-M	V-BRAKE	V-BRAKE	INTER-M	INTER-M	INTER-M	
	Recommended model	BR-C3010 BR-C3000	-	-	BR-C3010 BR-C3000	BR-C3010 BR-C3000	BR-C3010 BR-C3000	
Rear speeds	5	5	5	3	3	3		
Gear ratio	Total	206%	206%	206%	158%	186%	186%	
	1	0.750	0.750	0.750	0.632	0.733	0.733	
	2	1.001	1.001	1.001	0.741	1.000	1.000	
	3	1.159	1.159	1.159	1.000	1.364	1.364	
	4	1.335	1.335	1.335	-	-	-	
	5	1.545	1.545	1.545	-	-	-	
	6	-	-	-	-	-	-	
	7	-	-	-	-	-	-	
	8	-	-	-	-	-	-	
	9	-	-	-	-	-	-	
	10	-	-	-	-	-	-	
11	-	-	-	-	-	-		
Shifting structure	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal	
Silent clutch	✓	✓	✓	✓	-	-	-	
Gear change support mechanism	-	-	-	-	✓	✓	✓	
Shifting POWER MODULATOR	-	-	-	-	✓	✓	✓	
Driving efficiency	Standard	Standard	Standard	HIGH	Standard	Standard	Standard	
w/ Left hand dust cap	-	✓	✓	-	-	-	-	
O.L.D. (mm)	132	132	132	122	120/127	120	120	
Spoke size	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	
Spoke hole	28H	-	-	-	-	✓	✓	
	32H	✓	✓	✓	-	✓	-	
	36H	✓	✓	✓	✓	✓	✓	
	Others	-	-	-	-	-	-	
Axle length (mm)	182	-	-	-	-	✓	✓	
	184	✓	✓	✓	-	✓	-	
	187	-	-	-	-	-	-	
	193	-	-	-	✓	-	-	
	Others	210	210	-	174/198/200	170/177/189/192	192	
Flange distance (mm)	54.6	54.6	54.6	51.1	53.5	53		
Flange diameter (mm)	86	86	86	92.5	84	70		
Flange width (mm)	Right	2.3	2.3	2.3	2.3	2.3	3.0	
	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 / right (mm)	76	76	76	83.5	74	60		
Hub shell	material	Steel	Steel	Aluminum	Steel	Steel	Steel	
	finish	Plated	Plated	Painted	Plated	Plated	Plated	
Average weight (g)	1305	1330	1255	1315	885	872		
Note	*Japan market only	*Japan market only	*Japan market only	-	-	Specification for Japan market		

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Internal Geared Hub

Series		NEXUS	NEXUS
Model no.		SG-3C41	SG-3D55
Function name		INTER-3	INTER-3
Color	1	Silver	Silver
	2	-	Black
	3	-	-
Brake type	Mount type	Coaster brake	CENTER LOCK disc brake
	Recommended model	-	-
Rear speeds		3	3
Gear ratio	Total	186%	186%
	1	0.733	0.733
	2	1.000	1.000
	3	1.364	1.364
	4	-	-
	5	-	-
	6	-	-
	7	-	-
	8	-	-
	9	-	-
	10	-	-
11	-	-	
Shifting structure		Low Normal	Low Normal
Silent clutch		-	✓
Gear change support mechanism		✓	✓
Shifting POWER MODULATOR		✓	✓
Driving efficiency		Standard	Standard
w/ Left hand dust cap		-	-
O.L.D. (mm)		120/127	135
Spoke size		#13/#14	#13/#14
Spoke hole	28H	✓	-
	32H	-	✓
	36H	✓	✓
	Others	-	-
Axle length (mm)	182	-	-
	184	-	-
	187	-	-
	193	-	✓
	Others	168/175/178	-
Flange distance (mm)		57.5	53.5
Flange diameter (mm)		67.5	77.6
Flange width (mm)	Right	2.3	3.2
	Left	2.3	3.2
Offset (mm)		1.2 / 2.7(175mm Axle)	1.7
P.C.D. left / right (mm)		59	65
Hub shell	material	Steel	Aluminum
	finish	Plated	Painted
Average weight (g)		1120	945
Note		-	-

Chain Tensioner

Series		ALFINE	ALFINE
Model no.		CT-S500	CT-S510
Color	1	Silver	-
	2	Black	-
	3	-	Silver&Black
Rear speeds		Single	Single
Compatible chain		CN-HG93 CN-HG73 CN-HG53	CN-HG73 (CS-S500) CN-HG53 (CS-S500) CN-HG71 (SM-GEAR)
Compatible cassette 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)
Dropout		Vertical drop end type	Vertical drop end type
Direct attachment		-	-
Structure		Double pulley	Single pulley
Tensioner arm	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Note			

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Cassette Sprocket

Series		ALFINE	NEXUS	NEXUS
Model no.		CS-S500	CS-C7000	SM-GEAR
Chain guard	With	✓	-	-
	Without	✓	✓	✓
Gear teeth	14T	-	-	- (2.3 mm) ✓ (3.0 mm)
	16T	-	-	✓ (2.3 mm) ✓ (3.0 mm)
	18T	✓ (w/ and w/o guard)	-	✓ (2.3 mm) ✓ (3.0 mm)
	19T	-	-	✓ (2.3 mm) - (3.0 mm)
	20T	✓ (w/ and w/o guard)	-	✓ (2.3 mm) ✓ (3.0 mm)
	21T	-	-	✓ (2.3 mm) ✓ (3.0 mm)
	22T	-	-	✓ (2.3 mm) ✓ (3.0 mm)
	23T	-	-	✓ (2.3 mm) - (3.0 mm)
	24T	-	✓	-
	27T	-	✓	-
30T	-	✓	-	
Gear thickness (mm)		2.0	2.3	2.3/3.0
Recommended chain	Super Narrow HG 9-speed	✓	-	-
	HG 8-speed (1/2 inch x 3/32 inch)	-	✓	✓ (2.3 mm)
	1/2 inch x 1/8 inch	-	-	✓ (3.0 mm)
Gear	Material	Steel	Steel	Steel
	Finish	Chrome plated	Manganese phosphate coated	Chrome plated / Manganese phosphate coated
Note				

Shift Lever

Series		ALFINE	ALFINE	ALFINE	NEXUS	NEXUS	NEXUS
Model no.		SL-S700	SL-S7000-8	SL-S503	SL-C6000-8	SL-7550	SL-C3000-7
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	REVOSHIFT	RAPIDFIRE PLUS	REVOSHIFT
Top-normal		✓	✓	-	-	-	-
Front speeds		-	-	-	-	-	-
Rear speeds		11	8	8	8	7	7
Compatible rear derailleur/internal geared hub 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 front derailleur type		-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever cable adjust		✓	✓	✓	✓	✓	✓
Max. multiple shifts (main lever/rear)		2	1	1	7	1	6
Release function	MULTI RELEASE	✓	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	-	✓	-
OPTICAL GEAR DISPLAY	With	Above handlebar	Above handlebar	Above handlebar	Window	Window	Window
	With (removable)	-	-	-	-	-	-
	Without	-	-	-	-	-	-
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Resin	Aluminum	Resin
	Finish	Painted	Painted	Painted	Resin	Painted	Resin
Main lever body	Material	Steel & Resin	Steel & Resin	Steel & Resin	-	Steel & Resin	-
	Finish	-	-	-	-	-	-
Release lever body	Material	Steel & Resin	Steel & Resin	Steel & Resin	-	Steel & Resin	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	-	-	-	-	-
		SIL-TEC	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Clamping diameter (mm)		22.2	22.2	22.2	22.2	22.2	22.2
Average weight (g)		-	-	-	-	-	-
Note							

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Shift Lever

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	
Model no.		SL-C7000-5	SL-5S50	SL-5S30	SL-5S30-A	SL-3S42E	SL-C2010-3	
Color	1	Silver	Silver	Silver	Silver	-	Black	
	2	Black	Black	Black	Black	Black	-	
	3	-	-	White	White	-	-	
Shifter type		REVOSHIFT	RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT	REVOSHIFT	RAPIDFIRE PLUS	
Top-normal		✓	-	-	-	-	-	
Front speeds		-	-	-	-	-	-	
Rear speeds		5	5	5	5	3	3	
Compatible rear derailleur/internal geared hub type		NEXUS INTER-5E	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-3	NEXUS INTER-3	
Compatible front derailleur type		-	-	-	-	-	-	
Shift lever position adjust		-	-	-	-	-	-	
Shift lever cable adjust		✓	✓	✓	✓	-	✓	
Max. multiple shifts (main lever/rear)		4	1	4	4	2	1	
Release function	MULTI RELEASE	-	-	-	-	-	-	
	INSTANT RELEASE	-	-	-	-	-	-	
	2-WAY RELEASE	-	-	-	-	-	-	
OPTICAL GEAR DISPLAY	With	Window	Window	Window	Window	Window	Below handlebar	
	With (removable)	-	-	-	-	-	-	
	Without	-	-	-	-	-	-	
Multi-bearing construction		-	-	-	-	-	-	
Shift lever bracket	Material	Resin	Aluminum	Resin	Resin	Resin	Aluminum	
	Finish	Resin	Painted	Resin	Resin	Resin	Painted	
Main lever body	Material	-	-	-	-	-	Steel & Resin	
	Finish	-	-	-	-	-	-	
Release lever body	Material	-	-	-	-	-	Steel & Resin	
	Finish	-	-	-	-	-	-	
Base cover	Material	Resin	Resin	Resin	Resin	Resin	-	
	Finish	-	-	-	-	-	-	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLIC K	-	-	-	-	-	
		SIL-TEC	-	-	-	-	-	
		Stainless	✓	✓	✓	✓	✓	-
		Steel	-	-	-	-	-	✓
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP40	SP outer for IHG	
Clamping diameter (mm)		22.2	22.2	22.2	22.2	22.2	22.2	
Average weight (g)		-	-	-	-	-	-	
Note		w/ Rubber bellows spec. is available						

Shift Lever

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	
Model no.		SL-3S41E	SL-3S35E	SL-3S58	SL-3S42	SL-3S43	SL-3S90	
Color	1	-	-	Silver	Silver	Silver	Gray	
	2	Black	Black	Black	Black	Black	Black	
	3	-	-	White	-	White	-	
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	Piano-touch	
Top-normal		-	-	-	-	-	-	
Front speeds		-	-	-	-	-	-	
Rear speeds		3	3	3	3	3	3	
Compatible rear derailleur/internal geared hub type		NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	
Compatible front derailleur type		-	-	-	-	-	-	
Shift lever position adjust		-	-	-	-	-	-	
Shift lever cable adjust		-	-	-	-	-	-	
Max. multiple shifts (main lever/rear)		2	2	2	2	2	2	
Release function	MULTI RELEASE	-	-	-	-	-	-	
	INSTANT RELEASE	-	-	-	-	-	-	
	2-WAY RELEASE	-	-	-	-	-	-	
OPTICAL GEAR DISPLAY	With	Window	Dial	Window	Window	Window	Dial	
	With (removable)	-	-	-	-	-	-	
	Without	-	-	-	-	-	-	
Multi-bearing construction		-	-	-	-	-	-	
Shift lever bracket	Material	Resin	Aluminum	Resin	Resin	Resin	Steel	
	Finish	Resin	Painted	Resin	Resin	Resin	Painted	
Main lever body	Material	-	-	-	-	-	Steel & Resin	
	Finish	-	-	-	-	-	-	
Release lever body	Material	-	-	-	-	-	Steel & Resin	
	Finish	-	-	-	-	-	-	
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Finish	-	-	-	-	-	-	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLIC K	-	-	-	-	-	
		SIL-TEC	-	-	-	-	-	
		Stainless	✓	✓	-	-	-	-
		Steel	-	-	✓	✓	✓	✓
Recommended shift lever outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	SP outer for IHG	SP outer for IHG	
Clamping diameter (mm)		22.2	22.2	22.2	22.2	22.2	22.2	
Average weight (g)		-	-	-	-	-	-	
Note								

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Shift Lever

Series		NEXUS	
Model no.		SL-3S91J	
Color	1	-	
	2	-	
	3	White	
Shifter type		Piano-touch	
Top-normal		-	
Front speeds		-	
Rear speeds		3	
Compatible rear derailleur/internal geared hub type		NEXUS INTER-3	
Compatible front derailleur type		-	
Shift lever position adjust		-	
Shift lever cable adjust		-	
Max. multiple shifts (main lever/rear)		2	
Release function	MULTI RELEASE	-	
	INSTANT RELEASE	-	
	2-WAY RELEASE	-	
OPTICAL GEAR DISPLAY	With	Dial	
	With (removable)	-	
	Without	-	
Multi-bearing construction		-	
Shift lever bracket	Material	Steel	
	Finish	Painted	
Main lever body	Material	Steel & Resin	
	Finish	-	
Release lever body	Material	Steel & Resin	
	Finish	-	
Base cover	Material	Resin	
	Finish	-	
Shift lever cable	Inner cable	Polymer-coated cable	-
		OPTISLIC K	-
		SIL-TEC	-
		Stainless	-
		Steel	✓
Recommended shift lever outer casing		SP outer for IHG	
Clamping diameter (mm)		22.2	
Average weight (g)		-	
Note			

Brake Lever (Hydraulic Disc Brake)

Series		ALFINE
Model no.		BL-S7000
Brake type		Hydraulic disc brake
Lever size (finger)		3
Color	1	Series Black
	2	Series Silver
	3	-
Brake hose (kit)		SM-BH59-JK-SS
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
J-Kit spec (for OEM)		✓
SERVO WAVE		-
Reach adjust	Toolless	-
	Tool	✓
Free stroke adjust		-
Compatible shift lever mount	Clamp band	✓
	I-SPEC B	-
	I-SPEC II	✓
Clamp band	Open clamp	✓
Recommended brake caliper		BR-S7000
Oil		SHIMANO Mineral
Funnel bleeding		✓
Clamp screw	Material	Stainless steel
	Finish	-
Brake lever	Material	Aluminum
	Finish	Anodized
Master cylinder	Material	Aluminum
	Finish	Painted
Average weight (g)		-
Note		

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Brake Lever

Series		NEXUS	NEXUS
Model no.		BL-C6010	BL-C6000
Color	1	Silver (C6000)	Silver
	2	Silver (C3000)	Black
	3	Black	-
Compatible brake type	V-BRAKE	✓	✓
	Mechanical disc brake (MTB)	-	-
	Mechanical disc brake (Road)	-	-
	Caliper (NEW SUPER SLR)	-	-
	Caliper (SUPER SLR)	-	-
	Cantilever brake	-	-
	Roller brake	✓	✓
Recommended POWER MODULATOR	V-BRAKE	SM-PM40	SM-PM40
	Mechanical disc brake (MTB)	-	-
Clamp band	Open clamp band	-	-
	I-SPEC	-	-
	Diameter (mm)	22.2	22.2
Internal bumper stop		✓	✓
Lever size (finger)		4	4
Brake cable type		T-type	T-type
Power adjuster		-	-
SERVO WAVE		-	-
Reach adjust		✓	✓
Cable adjust		✓	✓
Cable adjust type		Two hand	Two hand
Brake lever	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Brake bracket	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Note	* Brake lever ratio is different from BL-C6000 for better performance with BR-C6000, C3000 series.		

Brake (Hydraulic Disc Brake)

Series		ALFINE
Model no.		BR-S7000
Color	1	Series Black
	2	Series Silver
	3	-
Brake type		Hydraulic disc brake
Brake hose (kit)		SM-BH59-JK-SS
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
ICE TECHNOLOGIES pad compatible caliper		-
Pad	Standard 1	G03S Resin
	Standard 2	-
	Option 1	-
	Option 2	-
	10 mm mount	-
	15 mm mount	-
	20 mm mount	-
Fixing screw spec for rear mount	25 mm mount	-
	30 mm mount	-
	35 mm mount	-
	Recommended brake lever	BL-S7000
Recommended disc brake rotor		SM-RT64 SM-RT66
Oil		SHIMANO Mineral
ONE WAY BLEEDING		✓
Mount type		Post-type
Piston		2
Piston material		Resin
Caliper	MONO-BODY	-
	Material	Aluminum
	Finish	Painted
Caliper fixing bolt	Material	Steel
	Tool size	5 mm
	Anti loosen method	Snap ring
Pad mount		Split pin (stainless steel)
Average weight (g)		-
Note		J-Kit spec available

Brake (Roller Brake)

Series	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.	BR-C6060-F	BR-C6050-F	BR-C6000-F	BR-C6000-F-DX	BR-C6000-R	BR-C6000-R-DX
Front	✓	✓	✓	✓	-	-
Rear	-	-	-	-	✓	✓
Structure type	Hyper	Hyper	Hyper	Hyper	Hyper	Hyper
Braking power (*1)	1.7	1.7	1.5	1.5	1.2	1.2
Cooling fin diameter (mm)	138	138	150	150	150	150
Heat dissipation (*1)	1.4	1.4	1.4	1.4	1.4	1.4
Without cooling fin	-	-	-	-	-	-
With POWER MODULATOR function	✓	✓	-	-	-	-
Wheel size (inch)/Outer diameter of tire (mm)	26-28 inch	-	✓	✓	✓	✓
	660-712 mm	✓	✓	-	-	-
	20-28 inch	-	-	-	-	-
	16-28 inch	-	-	-	-	-
	24-28 inch	-	-	-	-	-
	20-24 inch	-	-	-	-	-
Roller brake modulator grade	More than 26 inch high	-	-	✓	✓	-
	More than 26 inch standard	-	-	-	-	-
	20-24 inch	-	-	-	-	-
	Range of overall allowable mass for modulator (kg) * mass = bicycle + rider + luggage	100-130	70-100	-	-	-
Inner cable quick release	✓	✓	✓	✓	✓	✓
Note *1 Performance index rating uses BR-C3000-R brake unit as a reference value of 1. Testing condition.	Except Japan market	Except Japan market				

Series	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.	BR-C3010-F	BR-C3010-R	BR-C3000-F	BR-C3000-F-DX	BR-C3000-R	BR-C3000-R-DX
Front	✓	-	✓	✓	-	-
Rear	-	✓	-	-	✓	✓
Structure type	Normal	Normal	Normal	Normal	Normal	Normal
Braking power (*1)	1.2	1	1.2	1.2	1	1
Cooling fin diameter (mm)	140	140	122	122	122	122
Heat dissipation (*1)	1.2	1.2	1.0	1.0	1.0	1.0
Without cooling fin	-	-	-	-	-	-
With POWER MODULATOR function	-	-	-	-	-	-
Wheel size (inch)/Outer diameter of tire (mm)	26-28 inch	✓	✓	✓	✓	✓
	660-712 mm	-	-	-	-	-
	20-28 inch	-	-	-	-	-
	16-28 inch	-	-	-	-	-
	24-28 inch	-	-	-	-	-
	20-24 inch	-	-	-	-	-
Roller brake modulator grade	More than 26 inch high	-	-	-	-	-
	More than 26 inch standard	✓	-	✓	✓	-
	20-24 inch	-	-	-	-	-
	Range of overall allowable mass for modulator (kg) * mass = bicycle + rider + luggage	-	-	-	-	-
Inner cable quick release	✓	✓	✓	✓	✓	✓
Note *1 Performance index rating uses BR-C3000-R brake unit as a reference value of 1. Testing condition.						

Brake (Roller Brake)

Series	NEXUS	
Model no.	BR-IM31-R	
Front	-	
Rear	✓	
Structure type	Normal	
Braking power (*1)	0.9	
Cooling fin diameter (mm)	90	
Heat dissipation (*1)	Less than 1	
Without cooling fin	Available	
With POWER MODULATOR function	-	
Wheel size (inch)/Outer diameter of tire (mm)	26-28 inch	✓
	660-712 mm	-
	20-28 inch	-
	16-28 inch	-
	24-28 inch	-
	20-24 inch	-
	16-20 inch	-
Roller brake modulator grade	More than 26 inch high	-
	More than 26 inch standard	-
	20-24 inch	-
	Range of overall allowable mass for modulator (kg) * mass = bicycle + rider + luggage	-
Inner cable quick release	-	
Note *1 Performance index rating uses BR-C3000-R brake unit as a reference value of 1. Testing condition.		

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Crankset

Series		ALFINE	NEXUS
Model no.		FC-S501	FC-C6000
Color	1	Silver	Silver
	2	Black	Black
Rear speeds		(Internal geared hub)	(Internal geared hub)
Compatible chain	Super Narrow HG for 11-speed	-	-
	Super Narrow HG for 9-speed	✓ (CN-HG93, CN-HG53)	-
	HG 8-speed (1/2 inch x 3/32 inch)	-	✓ (CN-HG71)
	1/2 inch x 1/8 inch LG	-	✓ (CN-NX10)
Chain line (mm)		49.2 (double chain guard) 42.7 (single chain guard)	44
P.C.D. left / right (mm)		130	-
Gear arms (pcs)		5	-
Chaining combination		45T/42T/39T	38T/33T
Q-factor			
Crank arm length (mm)	165	-	-
	167.5	-	-
	170	✓	✓
	172.5	-	-
	175	-	-
	177.5	-	-
	180	-	-
Optional chain guard	With bash guard	-	-
	With chain guard	✓ (double)	-
	Without chain/bash guard	-	✓
HOLLOWTECH II		-	-
2-PIECE CRANKSET		✓	-
HOLLOWTECH crank arm		-	-
OCTALINK		-	-
HOLLOWGLIDE		-	-
Compatible bottom bracket type	Outboard	✓	-
	OCTALINK	-	-
	Square	-	✓
Recommended bottom bracket	Threaded (normal)	-	-
	Threaded (E-type)	-	-
	Threaded (chain case)	-	BB-UN300-K
	Press-Fit	-	-
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-
	Threaded (E-type)	-	-
	Threaded (chain case)	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓
	70	-	-
	83	-	-
Chain case compatible		-	✓
Crank arm	Material	Aluminum	Aluminum
	Finish	Anodized/Painted	Painted
Crank axle	Material	-	-
	Finish	-	-
Spider arm	Material	-	-
	Finish	-	-
Spider arm cover	Material	-	-
	Finish	-	-
Outer ring	Material	Aluminum	Steel
	Finish	Anodized	Black
Middle ring	Material	-	-
	Finish	-	-
Inner ring	Material	-	-
	Finish	-	-
Outer/middle ring fixing bolt	Material	-	-
	Finish	-	-
Inner ring fixing screw	Material	-	-
	Finish	-	-
Chain guard 1	Material	Aluminum	Resin
	Finish	Anodized	Painted
	Diameter (mm) 45T	200	-
	Diameter (mm) 42T	190	-
	Diameter (mm) 39T	174	-
	Diameter (mm) 33T	-	95.4
Chain guard 2	Material	Resin	-
	Finish	-	-
	Diameter (mm) 45T	200	-
	Diameter (mm) 42T	190	-
	Diameter (mm) 39T	174	-
	Diameter (mm) 33T	-	95.4
Crank fixing screw included		✓	✓
Average weight (g) (170 mm, w/o bottom bracket)			
Note			t : Chain case thickness * Both of spec with bolt and spec w/o bolt are available.

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- CT
- CS
- SL
- BL
- BL
- BR
- RB
- FC
- HB
- FH
- FH
- FH
- HP

Front Hub (Roller Brake)

Series		NEXAVE	NEXUS
Model no.		HB-IM70-NT	HB-IM40
Color	1 Hub shell	Silver	Silver
	1 Quick release	Silver	-
	2 Hub shell	-	-
	2 Quick release	-	-
Type		For hub roller brake	For hub roller brake
Spoke holes	28H	-	-
	32H	-	-
	36H	✓	✓
	Others	-	-
P.C.D. (mm)		70	52
O.L.D. (mm)		100/105	100
Flange distance (mm)		56.8	61.5
Offset (mm)		3.7/6	4.3
Wheel size (inch)/Outer diameter of tire (mm)	26-28 inch	✓	✓
	660-712 mm	-	-
	20-28 inch	-	-
	16-28 inch	-	-
	24-28 inch	-	-
	20-24 inch	-	-
	16-20 inch	-	-
Roller brake modulator grade	More than 26 inch high	✓	-
	More than 26 inch standard	-	✓
	20-24 inch	-	-
Axle fixing method		Nut	Nut
Axle (nut type)	Axle length 140 mm	✓ (M9)	✓ (M9)
	Axle length 145 mm	✓ (M9)	-
	Material	Steel	Steel
Seal		✓	✓
Hub shell	Material	Aluminum	Aluminum
	Finish	Clear Painted	Machined
Structure (braking power)		Hyper	Normal
Note			

FREEHUB (Roller Brake)

Series		NEXAVE	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-IM70	FH-IM20	RH-IM10	RH-IM11
Color	Hub shell	Silver	Silver	Silver / Black	Silver
	Quick release	-	-	-	-
Spoke holes	28H	-	✓	✓	✓
	32H	✓	-	✓	✓
	36H	✓	✓	✓	✓
	Others	-	-	-	-
	P.C.D. (mm)	45	45	45	74
FREEHUB body	Speeds	8/9-speed	7-speed	-	-
	11T compatible	✓	✓	-	-
	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 distance (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 fixing method		Nut	Nut	Nut	Nut
Axle (quick release type)	Quick release skewer length	-	-	-	-
	Length (mm)	-	-	-	-
	Material	-	-	-	-
Axle (nut type)	Length left / right (mm)	185	194/202	180/200	180/185/192/200/204
	Material	Steel	Steel	Steel	Steel
Seal	Hub	✓	-	-	-
	Freewheel	✓	-	-	-
Hub shell	Material	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Chrome plated	Plated	Plated
Note				For 6/7-speed multiple free wheel	For 6/7-speed multiple free wheel

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FREEHUB (Band Brake)

Series		SHIMANO
Model no.		FH-S028
Color	Hub shell	Black
	Quick release	-
Spoke holes	28H	✓
	32H	-
	36H	✓
	Others	-
	P.C.D. (mm)	45
FREEHUB body	Speeds	Single speed
	11T compatible	-
	Roller clutch	-
	Material	Steel
O.L.D. (mm)		115/120
Flange diameter (mm)		55
Flange distance (mm)		51.5
Dish (mm)		1.8
Axle fixing method		Nut
Axle (quick release type)	Quick release skewer length	-
	Length (mm)	-
	Material	-
Axle (nut type)	Length left / right (mm)	165/170/180/185/192
	Material	Steel
Seal	Hub	-
	Freewheel	-
Hub shell	Material	Steel
	Finish	Plated
Note		for band brake

FREEHUB (Disc Brake)

Series		SHIMANO
Model no.		FH-UR600
Color	1 Hub shell	Black
	1 Quick release	Black
	2 Hub shell	-
	2 Quick release	-
Brake type		CENTER LOCK disc brake
Rear speeds		11/10 *
O.L.D. (mm)		135
Spoke hole	24H	-
	28H	-
	32H	✓
	36H	✓
10 tooth cog compatible		-
External serration disc brake rotor lock ring	With	-
	Without	✓
Internal serration disc brake rotor lock ring	With	-
	Without	✓
CENTER LOCK mount cover option		✓
Axle fixing method		Quick release
Quick release skewer length (mm)	166	-
	168	✓
	170	-
	172	-
	173	✓
	174	-
	176	-
	178	-
Thru axle (length x inner diameter ; mm)	135 x 10	-
	135 x 12	-
	142 x 12	-
	148 x 12	-
	150 x 12	-
157 x 12	-	
Flange distance (mm)		55.7
Offset (mm)		7.45
P.C.D. left / right (mm)		44.6/44.6
Flange diameter left / right (mm)		53.5/53.8
Spline type	MICRO SPLINE	-
	HG spline L (ROAD 11/12-speed)	✓
	HG spline M (8/9/10-speed, MTB 11-speed)	-
	HG spline S (7-speed)	-
Engagement type		Pawl ratchet
Quick engagement		-
Seal	Hub	Contact
	FREEHUB body	Contact
Internal grease sleeve		✓
Digital adjustment system		-
Bearing	Stainless ball	-
	Cup	Polish
	Cone	CBN
	Cartridge	-
FREEHUB body	Material	Steel
	Finish	-
Hub shell	Material	Aluminum
	Finish	Anodized
Axle	Material	Steel
	Finish	-
Quick release lever	Material	Aluminum
	Finish	Anodized
	Color	-
Quick release housing	Material	Aluminum
	Finish	Anodized
Quick release nut	Material	Resin & Steel
	Finish	Black
Disc brake rotor lock ring	Material	-
	Finish	-
Average weight (g) (w/o axle, quick release nor lock ring)		-
Note		* Used with an additional spacer.

Head Parts

Series		NEXUS
Model no.		HP-NX10
Color	1	Black
	2	-
A (mm)		ø30.01 (ø29.85) or ø30.2 (ø30)
B (mm)		30.5 - 31.5
Front fork stem thread size		BC 1 inch x 24 T.P.I.
C (mm)		Max. ø38
D (mm)		21.7
Head tube material		Steel
Note		

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Chain

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CN-M9100	CN-M8100	CN-M7100	CN-M6100	CN-E8000-11	CN-HG901-11
Type	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG-X11	HG-X11
E-BIKE rear derailleur system compatible	✓	✓	✓	✓	✓	✓
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	✓	✓	✓	✓	✓	✓
Hollow pin	✓	-	-	-	-	✓
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
Model no.	CN-HG701-11	CN-HG601-11	CN-LG500	CN-E6090-10	CN-HG95	CN-HG54
Type	HG-X11	HG-X11	LG	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
E-BIKE rear derailleur system compatible	✓	✓	✓	✓	-	-
Pin link plate	SIL-TEC	Gray	Gray	SIL-TEC	SIL-TEC	Gray
Roller link plate	SIL-TEC	SIL-TEC	Gray	SIL-TEC	SIL-TEC	Brown
Roller	-	-	-	-	-	-
Chromizing treatment roller link pin	✓	✓	✓	✓	✓	✓
Hollow pin	-	-	-	-	-	-
Average weight (g) (114 links)	257	257	257	276	273	273
Note						

Series	ULTEGRA	ULTEGRA	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CN-6701	CN-6600	CN-HG93	CN-E6070-9	CN-HG53	CN-HG71
Type	HG 10-speed	HG 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG
E-BIKE rear derailleur system compatible	-	-	-	✓	-	-
Pin link plate	Zinc-Alloy Plated	Zinc-Alloy Plated	Zinc-Alloy Plated	Gray	Gray	Silver
Roller link plate	Gray	Gray	Gray	Gray	Brown	Gray
Roller	-	-	-	-	-	-
Chromizing treatment roller link pin	✓	✓	✓	✓	✓	✓
Hollow pin	-	-	-	-	-	-
Average weight (g) (114 links)	267	273	299	276	299	324
Note		For triple				

Series	SHIMANO	NEXUS
Model no.	CN-HG40	CN-NX10
Type	HG	Single speed 1/2 x 1/8 inch
E-BIKE rear derailleur system compatible	-	-
Pin link plate	Gray	-
Roller link plate	Brown	-
Roller	-	-
Chromizing treatment roller link pin	-	-
Hollow pin	-	-
Average weight (g) (114 links)	324	-
Note		

Chain QUICK-LINK

Series	SHIMANO	SHIMANO
Model no.	SM-CN910-12	SM-CN900-11
E-BIKE rear derailleur system compatible	✓	✓
Compatible chain	HG 12-speed	HG 11-speed
Pin link plate	Ni-plating	Ni-plating
Roller link plate	-	-
Roller	-	-
Chromizing treatment link pin	✓	✓
Hollow pin	-	-
Note	QUICK-LINK for HG 12-speed chain	QUICK-LINK for HG 11-speed chain, LG chain

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Disc Brake Rotor

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		RT-MT900	RT-MT905	RT-MT800	SM-RT900	SM-RT800	SM-RT86
CENTER LOCK		✓	-	✓	✓	✓	-
6-bolt (P.C.D. 44 mm)		-	✓	-	-	-	✓
ICE TECHNOLOGIES		✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES FREEZA		✓	✓	✓	✓	✓	-
ICE TECHNOLOGIES FREEZA w/ heat dissipation paint		✓	✓	-	✓	-	-
Outside diameter (mm)	220	-	-	-	-	-	-
	203	✓	✓	✓	-	-	✓
	180	✓	✓	✓	-	-	✓
	160	✓	-	✓	✓	✓	✓
	140	✓	-	✓	✓	✓	✓
Alloy lock ring		✓	✓	✓	✓	✓	✓
Adapter	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Painted	Anodized	Painted	Painted
Rotor	Material	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
	Finish	Polished	Grinding	Polished	Polished	Polished	Polished
Pad material compatibility	Metal	✓	✓	✓	✓	✓	✓
	Resin	✓	✓	✓	✓	✓	✓
Pad lining shape compatibility	Narrow	✓	✓	✓	✓	✓	✓
	Wide	-	-	-	-	-	-
Lock ring	Internal type	Material	Aluminum	-	Aluminum	Aluminum	-
		Finish	Anodized	-	Anodized	Anodized	-
	External type	Material	Aluminum	-	Aluminum	-	-
		Finish	Anodized	-	Anodized	-	-
	Internal/external type	Material	-	-	-	-	-
		Finish	-	-	-	-	-
	Internal type with magnet for EW-SS302	Material	Aluminum (except 140 mm)(NEW)	-	Aluminum (except 140 mm)(NEW)	-	-
		Finish	Anodized (except 140 mm)(NEW)	-	Anodized (except 140 mm)(NEW)	-	-
Average weight (g) (w/o lock ring)		150 (203 mm) 132 (180 mm) 108 (160 mm) 88 (140 mm)	187 (203 mm) 147 (180 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)
Note			With anti loosen tightening plate				With anti loosen tightening plate

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-RT70	SM-RT76	SM-RT66	SM-RT64	SM-RT56	SM-RT54
CENTER LOCK		✓	-	-	✓	-	✓
6-bolt (P.C.D. 44 mm)		-	✓	✓	-	✓	-
ICE TECHNOLOGIES		✓	-	-	-	-	-
ICE TECHNOLOGIES FREEZA		-	-	-	-	-	-
ICE TECHNOLOGIES FREEZA w/ heat dissipation paint		-	-	-	-	-	-
Outside diameter (mm)	220	-	-	✓ (NEW)	✓ (NEW)	-	-
	203	✓	✓	✓	✓	-	-
	180	✓	✓	✓	✓	✓	✓
	160	✓	✓	✓	✓	✓	✓
	140	✓	-	-	-	-	-
Alloy lock ring		-	-	-	-	-	-
Adapter	Material	Aluminum	Aluminum	-	Aluminum	-	Aluminum
	Finish	Painted	Painted	-	Painted	-	Painted
Rotor	Material	Stainless steel + Aluminum + Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Polished	Polished	Polished	Polished	Polished	Polished
Pad material compatibility	Metal	✓	✓	✓	✓	-	-
	Resin	✓	✓	✓	✓	✓	✓
Pad lining shape compatibility	Narrow	✓	✓	✓	✓	✓	✓
	Wide	-	-	-	-	✓	✓
Lock ring	Internal type	Material	Steel	-	-	-	Steel
		Finish	Plated	-	-	-	Plated
	External type	Material	Steel	-	-	Steel	Steel
		Finish	Plated	-	-	Plated	Plated
	Internal/external type	Material	-	-	-	-	-
		Finish	-	-	-	-	-
	Internal type with magnet for EW-SS302	Material	Aluminum (203 mm only)(NEW)	-	-	Aluminum (NEW)	-
		Finish	Anodized (203 mm only)(NEW)	-	-	Anodized (NEW)	-
Average weight (g) (w/o lock ring)		193 (203 mm) 159 (180 mm) 133 (160 mm) 121 (140 mm)	209 (203 mm) 169 (180 mm) 141 (160 mm)	-	-	-	-
Note			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	
CENTER LOCK		✓	-	✓	-	
6-bolt (P.C.D. 44 mm)		-	✓	-	-	
ICE TECHNOLOGIES		-	-	-	-	
ICE TECHNOLOGIES FREEZA		-	-	-	-	
ICE TECHNOLOGIES FREEZA w/ heat dissipation paint		-	-	-	-	
Outside diameter (mm)	220	-	-	-	-	
	203	✓	-	-	-	
	180	✓	✓	✓	-	
	160	✓	✓	✓	✓	
	140	-	-	-	-	
Alloy lock ring		-	-	-	-	
Adapter	Material	Stainless steel	-	Steel	Steel	
	Finish	Painted	-	Painted	Painted	
Rotor	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Polished	Polished	Polished	Polished	
Pad material compatibility	Metal	-	-	-	✓	
	Resin	✓	✓	✓	✓	
Pad lining shape compatibility	Narrow	✓	✓	✓	✓	
	Wide	✓	✓	✓	-	
Lock ring	Internal type	Material	-	-	-	
		Finish	-	-	-	
	External type	Material	-	-	-	-
		Finish	-	-	-	-
	Internal/external type	Material	Steel	-	Steel	-
		Finish	Painted	-	Painted	-
Internal type with magnet for EW-SS302	Material	Aluminum (NEW)	-	-	-	
	Finish	Anodized (NEW)	-	-	-	
Average weight (g) (w/o lock ring)		-	-	-	-	
Note			With anti loosen tightening plate		Disc brake rotor is fixed by 5 bolts with 74 mm P.C.D.	

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Disc Brake Hose

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-BH90-SB	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SBS	SM-BH90-SS	SM-BH59-JK-SS
Color	1	Black	Black	Black	Black	Black	Black
	2	White	-	-	White	White	White
	3	-	-	-	-	-	-
Hose joint	Brake lever	Straight	Straight	Straight	Straight	Straight	Straight
	Brake caliper	Banjo	Banjo	Banjo	Banjo	Straight	Straight
Rigidity		High power	High power	High power	High power	High power	Standard
Banjo	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Length	Standard	Long	Standard	Standard	-	-
	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
Note				* Banjo bolt is not included.			

Series		SHIMANO
Model no.		SM-BH59-SB
Color	1	Black
	2	White
	3	-
Hose joint	Brake lever	Straight
	Brake caliper	Banjo
Rigidity		Standard
Banjo	Material	-
	Length	-
	Banjo bolt length	-
	Banjo bolt material	-
Connecting bolt	Material	Steel
Note		

Disc Brake Rotor Adapter

Series		SHIMANO
Model no.		SM-RTAD05
Color	1	Black
	2	-
	3	-
Lock ring	Type	External serration
	Material	Steel
Disc brake rotor mount method		Hexalobular bolts
Compatibility (disc brake rotor)	SM-RT86	-
	SM-RT76	-
	SM-RT66	✓
	SM-RT56	✓
	SM-RT26	✓
Compatibility (axle)	Front 20 mm thru	✓
	Front 15 mm E-THRU	✓
	Front 9 mm quick release	✓
	Rear 12 mm E-THRU	✓
	Rear 12 mm thru	✓
	Rear 10 mm thru	✓
	Rear 10 mm quick release	✓
Note	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).	

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Outer Casing

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		OT-RS900	OT-SP41	OT-SP40	OT-SIS40
Color	Black	✓	✓	✓	✓
	White	✓	✓	✓	✓
	Yellow	-	✓	-	-
	Red	✓	✓	-	-
	Blue	-	✓	-	-
	Lime-green	-	✓	-	-
	Orange	-	✓	-	-
	High-tech gray	✓	✓	-	-
Outer	SP type	-	✓	✓	-
	Coil type	✓	-	-	✓
Liner	Material	Polyethylene	Polyethylene	Polyethylene	Polyethylene
Cable grease	Special grease	✓	✓	-	-
	Premium grease	-	-	✓	✓
	Entirely greased	✓	✓	-	-
Note					

Cable Adjuster

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-CB90	SM-CB70	SM-CA70	SM-CA50
Shifting cable		-	-	✓	✓
Brake cable		✓	✓	-	-
Quick release function		✓	-	-	-
Outer adjust screw	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Body	Material	Aluminum	Aluminum	Aluminum	Resin
	Finish	Anodized	Anodized	Anodized	-
Quick release lever	Material	Stainless steel	-	-	-
	Finish	-	-	-	-
Note					

POWER MODULATOR

Series		SHIMANO	SHIMANO
Model no.		SM-PM70	SM-PM40
Modulator level		Standard	Standard
Mount type		Lead pipe	Lead pipe
Available lead pipe angle	90 deg.	✓	✓
	135 deg.	✓	✓
Compatible brake	V-BRAKE	✓**	✓**
	Mechanical disc brake (MTB)	-	-
	Mechanical disc brake (Road)	-	-
	Caliper (NEW SUPER SLR)	-	-
	Caliper (SUPER SLR)	-	-
	Cantilever brake	-	-
	Roller brake	-	-
Compatible brake lever	V-BRAKE 4-finger	✓***	✓***
	V-BRAKE 3-finger	✓***	✓***
	V-BRAKE 2-finger	✓	✓
	Road	-	-
Body	Material	Aluminum	Aluminum
	Finish	Anodized + Laser Marking	Barrel and Sticker
Lead pipe	Material	Stainless steel	Stainless steel
Note		** 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

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO
Model no.		DH-UR708-3D	DH-UR705-3D	DH-UR700-3D	DH-T4050-1D	DH-T4000-1N	DH-F703-S
Regulation	StVZO	✓	✓	✓	✓	✓	✓
	TPGBI	-	-	-	-	-	-
	JIS	-	-	-	-	-	-
	Others	ISO	-	-	-	-	-
Color	1 Hub shell	Silver	Silver	Silver	Black	Silver	Silver
	1 Quick release	-	-	Silver	Black	-	Black
	2 Hub shell	Black	Black	Black	-	Black	-
	2 Quick release	-	-	Black	-	-	Black
Brake type		Disc brake	Disc brake	Disc brake	Disc brake	Regular	Regular
CENTER LOCK mount type		✓	✓	✓	✓	-	-
Voltage (V)		6	6	6	6	6	6
Output (W)		3	3	3	1.5	1.5	3
Wheel size	26-28 inch	✓	✓	✓	-	-	-
	20-28 inch	-	-	-	-	-	-
	18-28 inch	-	-	-	✓	✓	-
	16-28 inch	-	-	-	-	-	-
	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	16-20 inch	-	-	-	-	-	✓
	Compatible wheel size (mm)	(646-716)	(646 - 716)	(646 - 716)	(448 - 716)	(448 - 716)	(400 - 536)
Axle fixing method		15 mm E-THRU	12 mm E-THRU *	Quick release	Quick release	Quick release	Quick release
Quick release type		-	-	✓	✓	✓	✓
Nut type		-	-	-	-	-	-
E-THRU type		✓*	✓*	-	-	-	-
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	-	-	✓	✓	✓	✓
Thru axle (length x inner diameter ; mm)	100 x 12	-	✓	-	-	-	-
	100 x 15	✓	-	-	-	-	-
O.L.D. (mm)		100	100	100	100	100	74
Flange distance (mm)		52	52	52	51	56.0	44.6
Offset (mm)		3.5	3.5	3.5	1.9	0	0
P.C.D. left / right (mm)		62	62	62	67	67	74
Axle length (mm)		100	100	108	108	108	82
Spoke size		#14	#14	#14	#14	#14	#14
Spoke hole	24H	-	-	-	-	-	✓
	28H	-	-	-	-	-	✓
	32H	✓	✓	✓	✓	✓	-
	36H	✓	✓	✓	✓	✓	-
Seal		Single contact	Single contact	Single contact	Single contact	Single contact	Single contact
Roller brake modulator grade	More than 26 inch high	-	-	-	-	-	-
	More than 26 inch standard	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
Electric power output connector	J1 type	-	-	-	-	-	-
	J2 type	-	-	-	-	-	-
	E2 type	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Axle	Material	-	-	Aluminum	Steel	Steel	Steel
	Finish	-	-	Chromated	Zinc plated	Zinc plated	Zinc plated
Quick release lever	Material	-	-	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	-	Anodized	E-Coating	E-Coating	Anodized
Quick release housing	Material	-	-	Aluminum	Steel	Steel	Aluminum
	Finish	-	-	Anodized	E-Coating	E-Coating	Anodized
Quick release nut	Material	-	-	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Average weight (g)		459 (w/o QR)	450	476 (w/o QR)	565	580	590
Note			Recommended E-THRU axle: SM-AX720		* For LED light use only	* For LED light use only	

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Hub Dynamo

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	ALFINE
Model no.		DH-3D72	DH-3D37-QR	DH-3D32-QR	DH-3D32-NT	DH-3N72	DH-5501
Regulation	StVZO	✓	✓	✓	✓	✓	✓
	TPGBi	✓	-	-	-	-	-
	JIS	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Color	1 Hub shell	Silver	Silver	Clear	Clear	Silver	Silver
	1 Quick release	Silver	-	-	-	Silver	Silver
	2 Hub shell	Black	Black	Black	Black	Black	Piano Black
	2 Quick release	Black	-	-	-	Silver	Silver
Brake type		Disc brake	Disc brake	Disc brake	Disc brake	Regular	Disc brake
CENTER LOCK mount type		✓	✓	-	-	-	✓
Voltage (V)		6	6	6	6	6	6
Output (W)		3	3	3	3	3	3
Wheel size	26-28 inch	✓	-	-	-	✓	✓
	20-28 inch	-	-	-	-	-	-
	18-28 inch	-	-	-	-	-	-
	16-28 inch	-	✓	✓	✓	-	-
	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	16-20 inch	-	-	-	-	-	-
	Compatible wheel size (mm)	(646 - 716)	(400 - 716)	(400 - 716)	(400 - 716)	(646 - 716)	(646 - 716)
Axle fixing method		Quick release	Quick release	Quick release	Nut	Quick release	Quick release
Quick release type		✓	✓	✓	-	✓	✓
Nut type		-	-	-	✓	-	-
E-THRU type		-	-	-	-	-	-
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	✓	✓	✓	-	✓	✓
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-	-
	100 x 15	-	-	-	-	-	-
O.L.D. (mm)		100	100	100	100	100	100
Flange distance (mm)		52.1	51	51.1	51.1	60.0	52.1
Offset (mm)		3.8	4	4	3.6	0	3.8
P.C.D. left / right (mm)		70	74	74	74	70	70
Axle length (mm)		108	108	108	140	108	108
Spoke size		#14	#14	#14	#14	#14	#14
Spoke hole	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
Seal		Single contact	Single contact	Single contact	Single contact	Single contact	Single contact
Roller brake modulator grade	More than 26 inch high	-	-	-	-	-	-
	More than 26 inch standard	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
Electric power output connector	J1 type	-	-	-	-	-	-
	J2 type	-	-	-	-	-	-
	E2 type	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized & Painted/ Anodized	Painted	Painted	Painted	Anodized & Painted	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Phosphate coated	Zinc plated	Zinc plated
Quick release lever	Material	Aluminum	Steel	Steel	-	Aluminum	Aluminum
	Finish	Anodized	Nickel plated	Nickel plated	-	Anodized	Anodized
Quick release housing	Material	Aluminum	Steel	Steel	-	Aluminum	Aluminum
	Finish	Anodized	Nickel plated	Nickel plated	-	Anodized	Anodized
Quick release nut	Material	Resin & Steel	Resin & Steel	Resin & Steel	-	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Average weight (g)		559	650	685	705	560	564
Note							

Hub Dynamo

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		DH-C6000-3R-NT	DH-C6000-2R	DH-C6000-1R	DH-C3000-3N-QR	DH-C3000-3N-NT	DH-C3000-2N-QR
Regulation	StVZO	✓	-	✓	✓	✓	-
	TPGBi	✓	-	-	✓	✓	-
	JIS	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Color	1 Hub shell	Silver	Silver	Silver	Silver	Silver	Silver
	1 Quick release	Black	-	-	-	-	-
	2 Hub shell	-	Black	Black	Black	Black	Black
	2 Quick release	-	-	-	-	-	-
Brake type		Hub Roller Brake	Hub Roller Brake	Hub Roller Brake	Regular	Regular	Regular
CENTER LOCK mount type		-	-	-	-	-	-
Voltage (V)		6	6	6	6	6	6
Output (W)		3	2.4	1.5	3.0	3.0	2.4
Wheel size	26-28 inch	✓	✓	✓	-	-	-
	20-28 inch	-	-	-	-	-	-
	18-28 inch	-	-	-	-	-	-
	16-28 inch	-	-	-	✓	✓	✓
	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	16-20 inch	-	-	-	-	-	-
	Compatible wheel size (mm)	(646 - 716)	(646 - 716)	(646 - 716)	(400 - 716)	(400 - 716)	(400 - 716)
Axle fixing method		Nut	Nut	Nut	Quick release	Nut	Quick release
Quick release type		-	-	-	✓	-	✓
Nut type		✓	✓	✓	-	✓	-
E-THRU type		-	-	-	-	-	-
Quick release skewer length (mm)	129	-	-	-	✓	-	✓
	133	-	-	-	✓	-	✓
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-	-
	100 x 15	-	-	-	-	-	-
O.L.D. (mm)		100	100	100	100	100	100
Flange distance (mm)		58.1	58.1	58.1	60.0	60.0	60.0
Offset (mm)		4.7	4.7	4.7	0.6	1.0	0.6
P.C.D. left / right (mm)		76	76	76	74	74	74
Axle length (mm)		140	140	140	108	140	108
Spoke size		#14	#14	#14	#14	#14	#14
Spoke hole	24H	-	-	-	-	-	-
	28H	-	-	-	-	✓	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
Seal		Single Contact	Single contact	Single contact	Single contact	Single contact	Single contact
Roller brake modulator grade	More than 26 inch high	✓	✓	✓	-	-	-
	More than 26 inch standard	✓	✓	✓	-	-	-
	20-24 inch	-	-	-	-	-	-
Electric power output connector	J1 type	-	-	-	-	-	-
	J2 type	-	-	-	-	-	-
	E2 type	✓	✓	✓	✓	✓	✓
	Others	Aluminum	-	-	-	-	-
Hub shell	Material	Painted	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Steel	Painted	Painted	Painted	Painted	Painted
Axle	Material	Manganese Phosphate Coated	Steel	Steel	Steel	Steel	Steel
	Finish	-	Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated
Quick release lever	Material	-	-	-	Steel	-	Steel
	Finish	-	-	-	Nickel plated	-	Nickel plated
Quick release housing	Material	-	-	-	Steel	-	Steel
	Finish	-	-	-	Nickel plated	-	Nickel plated
Quick release nut	Material	-	-	-	Resin & Steel	-	Resin & Steel
	Finish	-	-	-	-	-	-
Average weight (g)		960	960	960	700	712	700
Note				* For LED light use only			

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Hub Dynamo

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		DH-C3000-2N-NT	DH-C3000-1N	DH-C2100-N	DH-C2100-NC	DH-C2100-N-QR	DH-C2100-N-QRC
Regulation	StVZO	-	✓	-	-	-	-
	TPGBI	-	-	-	-	-	-
	JIS	-	-	-	-	-	-
	Others	-	-	VIA	VIA	VIA	VIA
Color	1 Hub shell	Silver	Silver	Silver	Silver	Silver	Silver
	1 Quick release	-	-	-	-	Silver	Silver
	2 Hub shell	Black	Black	Black	Black	Black	Black
	2 Quick release	-	-	-	-	Black	Silver
Brake type		Regular	Regular	Regular	Regular	Regular	Regular
CENTER LOCK mount type		-	-	-	-	-	-
Voltage (V)		6	6	6	6	6	6
Output (W)		2.4	1.5	0.9	0.9	0.9	0.9
Wheel size	26-28 inch	-	-	-	-	-	-
	20-28 inch	-	✓	-	-	-	-
	18-28 inch	-	-	-	-	-	-
	16-28 inch	✓	-	-	-	-	-
	24-28 inch	-	-	✓	-	✓	-
	20-24 inch	-	-	-	✓	-	✓
	16-20 inch	-	-	-	-	-	-
	Compatible wheel size (mm)	(400 - 716)	(448 - 716)	-	-	-	-
Axle fixing method		Nut	Nut	Nut	Nut	Quick release	Quick release
Quick release type		-	-	-	-	✓	✓
Nut type		✓	✓	✓	✓	-	-
E-THRU type		-	-	-	-	-	-
Quick release skewer length (mm)	129	-	-	-	-	✓	✓
	133	-	-	-	-	✓	✓
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-	-
	100 x 15	-	-	-	-	-	-
O.L.D. (mm)		100	100	93	93	100	100
Flange distance (mm)		60.0	56.0	58	58	58	58
Offset (mm)		1.0	0	0.5	0.5	0.5	0.5
P.C.D. left / right (mm)		74	67	60	60	60	60
Axle length (mm)		140	140	155 / 150	155 / 150	108	108
Spoke size		#14	#14	#13/#14	#13/#14	#13/#14	#13/#14
Spoke hole	24H	-	-	-	-	-	-
	28H	-	-	-	✓	-	-
	32H	✓	✓	-	-	✓	✓
	36H	✓	✓	✓	-	✓	✓
Seal		Single contact	Single contact	Single contact	Single contact	Single contact	Single contact
Roller brake modulator grade	More than 26 inch high	-	-	-	-	-	-
	More than 26 inch standard	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
Electric power output connector	J1 type	-	-	-	-	-	-
	J2 type	-	-	-	-	-	-
	E2 type	✓	✓	-	-	-	-
	Others	-	-	✓ (J2-A)	✓ (J2-A)	✓ (J2-A)	✓ (J2-A)
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted (Black)/Passivation (Silver)	Painted (Black)/Passivation (Silver)	Painted (Black)/Passivation (Silver)	Painted (Black)/Passivation (Silver)
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Phosphate coated	Phosphate coated	Plated	Plated	Phosphate coated	Phosphate coated
Quick release lever	Material	-	-	-	-	Steel	Steel
	Finish	-	-	-	-	Plated	Plated
Quick release housing	Material	-	-	-	-	Steel	Steel
	Finish	-	-	-	-	Plated	Plated
Quick release nut	Material	-	-	-	-	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Average weight (g)		705	600	491	491	474	474
Note			* For LED light use only	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market

Hub Dynamo

Series		NEXUS	NEXUS	SHIMANO	SHIMANO
Model no.		DH-2N40-J	DH-2N40-JC	DH-2N40-JW	DH-2N40-JWC
Regulation	StVZO	-	-	-	-
	TPGBI	-	-	-	-
	JIS	✓	✓	✓	✓
	Others	-	-	-	-
Color	1 Hub shell	Silver	Silver	Silver	Silver
	1 Quick release	-	-	-	-
	2 Hub shell	Black	Black	Black	Black
	2 Quick release	-	-	-	-
Brake type		Regular	Regular	Regular	Regular
CENTER LOCK mount type		-	-	-	-
Voltage (V)		6	6	6	6
Output (W)		2.4	2.4	2.4	2.4
Wheel size	26-28 inch	-	-	-	-
	20-28 inch	-	-	-	-
	18-28 inch	-	-	-	-
	16-28 inch	-	-	-	-
	24-28 inch	✓	-	✓	-
	20-24 inch	-	✓	-	✓
	16-20 inch	-	-	-	-
	Compatible wheel size (mm)	-	-	-	-
Axle fixing method		Nut	Nut	Nut	Nut
Quick release type		-	-	-	-
Nut type		✓	✓	✓	✓
E-THRU type		-	-	-	-
Quick release skewer length (mm)	129	-	-	-	-
	133	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-
	100 x 15	-	-	-	-
O.L.D. (mm)		93	93	100	100
Flange distance (mm)		60	60	60	60
Offset (mm)		0	0	3	3
P.C.D. left / right (mm)		69	69	69	69
Axle length (mm)		155 / 150	150	140	140
Spoke size		#13/#14	#14	#14	#14
Spoke hole	24H	-	-	-	-
	28H	-	✓	-	-
	32H	-	-	-	-
	36H	✓	-	✓	✓
Seal		Single contact	Single contact	Single contact	Single contact
Roller brake modulator grade	More than 26 inch high	-	-	-	-
	More than 26 inch standard	-	-	-	-
	20-24 inch	-	-	-	-
Electric power output connector	J1 type	-	-	-	-
	J2 type	✓	✓	✓	✓
	E2 type	-	-	-	-
	Others	-	-	-	-
Hub shell	Material	Aluminum & Steel	Aluminum & Steel	Aluminum & Steel	Aluminum & Steel
	Finish	Painted/Passivation	Painted/Passivation	Painted/Passivation	Painted/Passivation
Axle	Material	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Quick release lever	Material	-	-	-	-
	Finish	-	-	-	-
Quick release housing	Material	-	-	-	-
	Finish	-	-	-	-
Quick release nut	Material	-	-	-	-
	Finish	-	-	-	-
Average weight (g)		630	630	630	630
Note		* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market

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Light

Series		NEXUS	NEXUS	NEXUS	NEXUS	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 light		-	-	-	-	-	-
Type of light	Front	✓	✓	✓	✓	✓	✓
	Tail (rear)	-	-	-	-	-	-
Hub dynamo output		0.9 W	0.9 W	0.9 W	0.9 W	0.9 W	0.9 W
Main light		High Power LED	High Power LED	High Power LED	High Power LED	High Power LED	High Power LED
Brightness (at 5 m distance, JIS standard = 16 lx)		40 lx	40 lx	40 lx	40 lx	40 lx	40 lx
Lighting pattern		WIDE	Wide	Wide	Wide	Wide	Wide
Sub light		-	-	-	-	-	-
Stand light (LED flashing) function		-	-	-	-	-	-
Reflector integration		✓	✓	✓	✓	-	-
Electric power input	Tab-on type	-	-	-	-	-	-
	Connector type	J2-A	J2-A	J2-A	J2-A	J2-A	J2-A
Light body material		Resin	Resin	Resin	Resin	Resin	Resin
Color	1	CP	CP	CP	CP	Silver/Black/Black	CP/Silver/Black
	2	Silver (Painted)	Silver (Painted)	Silver (Painted)	Silver (Painted)	Black/Gray/Black	CP/Silver/White
	3	White	White	White	White	-	-
	4	Black	Black	Black	Black	-	-
	5	Gray	Gray	Gray	Gray	-	-
	6	-	-	-	-	-	-
Attachment position	Light stay	-	✓	-	✓	-	-
	Below basket	✓	-	✓	-	✓	-
	Fork center	-	-	-	-	-	✓
	Handle bar	-	-	-	-	-	-
	On mud guard	-	-	-	-	-	-
	Mud guard style stay	-	-	-	-	-	-
Compatible seat stay diameter (mm)	13	-	-	-	-	-	-
	16	-	-	-	-	-	-
	19	-	-	-	-	-	-
Compatible handle bar diameter (mm)	22.2	-	-	-	-	-	-
	25.4	-	-	-	-	-	-
	31.8	-	-	-	-	-	-
Switch	Auto	-	-	-	-	-	-
	Manual (on)	-	-	-	-	-	-
	Manual (off)	-	-	-	-	-	-
	Permanent	✓	✓	✓	✓	✓	✓
Electric wire color	Black	-	-	-	-	-	✓
	Gray	✓	✓	✓	✓	✓	-
Electric wire length (mm)	Tab-on type	-	-	-	-	-	-
	Connector type	715	405	715	405	710	500
EZ cable clamp		-	-	-	-	-	-
Cord length adjuster		-	-	-	-	-	-
Compatible wheel size		-	-	-	-	-	-
Note		* 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

Series		SHIMANO	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		LP-C2250-H	LP-C2111-S	LP-X101	LP-X101-H	LP-NX60-R
Function name		HILMO	HILMO FLASH	-	-	-
Auto light		-	-	✓	✓	-
Type of light	Front	✓	✓	✓	✓	✓
	Tail (rear)	-	-	-	-	-
Hub dynamo 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 flashing) function		-	✓	-	-	✓ (if used with LP-X103)
Reflector integration		-	✓	-	✓	-
Electric power input	Tab-on type	-	-	✓	✓	-
	Connector type	J2-A	J2A	✓	✓	✓
Light body material		Resin	Resin	Resin	Resin	Resin
Color	1	Silver/Black	CP	Silver (Painted)	Silver (Painted)	Silver (Painted)
	2	-	Silver (Painted)	White (Painted)	White (Painted)	White (Painted)
	3	-	White	Black	Black	Black (Painted)
	4	-	Black	Gray	Gray	-
	5	-	Gray	-	-	-
	6	-	-	-	-	-
Attachment position	Light stay	-	✓	✓	✓	-
	Below basket	-	-	-	-	-
	Fork center	-	-	-	-	-
	Handle bar	✓	-	-	-	-
	On mud guard	-	-	-	-	✓ *
	Mud guard style stay	-	-	-	-	-
Compatible seat stay diameter (mm)	13	-	-	-	-	-
	16	-	-	-	-	-
	19	-	-	-	-	-
Compatible handle bar diameter (mm)	22.2	✓	-	-	-	-
	25.4	✓	-	-	-	-
	31.8	✓	-	-	-	-
Switch	Auto	-	-	✓	✓	-
	Manual (on)	-	-	✓	✓	-
	Manual (off)	-	-	-	-	-
	Permanent	✓	✓	-	-	✓
Electric wire color	Black	✓	-	✓	✓	✓
	Gray	-	✓	-	-	✓
Electric wire length (mm)	Tab-on type	-	-	400	410	-
	Connector type	800	405	120	160	Available
EZ cable clamp		✓	-	-	-	-
Cord length adjuster		-	-	-	-	-
Compatible wheel size		-	-	-	-	24-27 inch
Note		* 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)

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E-THRU Axle (AX)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-AX720-100x12	SM-AX720-142x12	AX-MT700-142x12	AX-MT700-148x12	AX-MT700-157x12	AX-MT500-142x12
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	100 x 12	✓	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	✓	✓	-	-	✓
	148 x 12	-	-	-	✓	✓	-
	150 x 12	-	-	-	-	-	-
	157 x 12	-	-	-	-	✓	-
Lever position adjustment	Tool-less type	-	-	-	-	-	-
	Hexagon wrench type	✓	✓	✓	✓	✓	✓
Axle	Thread pitch	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5
	Length (mm)	121	163	166	172	181	166
	Hollow axle	✓	✓	✓	✓	✓	✓
	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
	Finish	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Painted (Black)
Housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Painted (Black)
Fixing nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g)		65	74	75	76	79	79
Note							

Series		SHIMANO	SHIMANO	SAINT	SHIMANO	SHIMANO	SHIMANO
Model no.		AX-MT500-148x12	AX-MT500-157x12	SM-AX80	SM-AX78	SM-AX78-B	SM-AX58
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	✓	-	-	-
	100 x 12	-	-	-	-	-	-
	135 x 12	-	-	✓	-	-	-
	142 x 12	-	-	-	✓	-	✓
	148 x 12	✓	-	-	-	✓	-
	150 x 12	-	-	✓	-	-	-
	157 x 12	-	✓	-	-	-	-
Lever position adjustment	Tool-less type	-	-	-	✓	✓	✓
	Hexagon wrench type	✓	✓	✓	-	-	-
Axle	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	166
	Hollow axle	✓	✓	✓	✓	✓	✓
	Material	Aluminum	Aluminum	Chromoly Steel	Aluminum	Aluminum	Aluminum
	Finish	Silver Anodized	Silver Anodized	Plated	Black Anodized	Black Anodized	Silver Anodized
Lever	Material	Aluminum	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	Painted (Black)	Painted (Black)	-	Black Anodized	Black Anodized	Painted (Black)
Housing	Material	Aluminum	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	Painted (Black)	Painted (Black)	-	Black Anodized	Black Anodized	Black Anodized
Fixing nut	Material	-	-	Steel	-	-	-
	Finish	-	-	Plated	-	-	-
Average weight (g)		80	83	133 (135 x 10 mm) 160 (135 x 12 mm) 169 (150 x 12 mm)	77	78	81
Note							

E-THRU Axle (AX)

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		SM-AX58-B	SM-AX56	SM-AX56-B
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-
	100 x 12	-	-	-
	135 x 12	-	-	-
	142 x 12	-	✓	-
	148 x 12	✓	-	✓
	150 x 12	-	-	-
	157 x 12	-	-	-
Lever position adjustment	Tool-less type	✓	✓	✓
	Hexagon wrench type	-	-	-
Axle	Thread pitch	M12 x 1.5	M12 x 1.5	M12 x 1.5
	Length (mm)	172	171	177
	Hollow axle	✓	✓	✓
	Material	Aluminum	Aluminum	Aluminum
	Finish	Silver Anodized	Silver Anodized	Silver Anodized
Lever	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted (Black)	Painted (Black)	Painted (Black)
Housing	Material	Aluminum	Aluminum	Aluminum
	Finish	Black Anodized	Painted (Black)	Painted (Black)
Fixing nut	Material	-	Aluminum	Aluminum
	Finish	-	Black Anodized	Black Anodized
Average weight (g)		82	75	77
Note				

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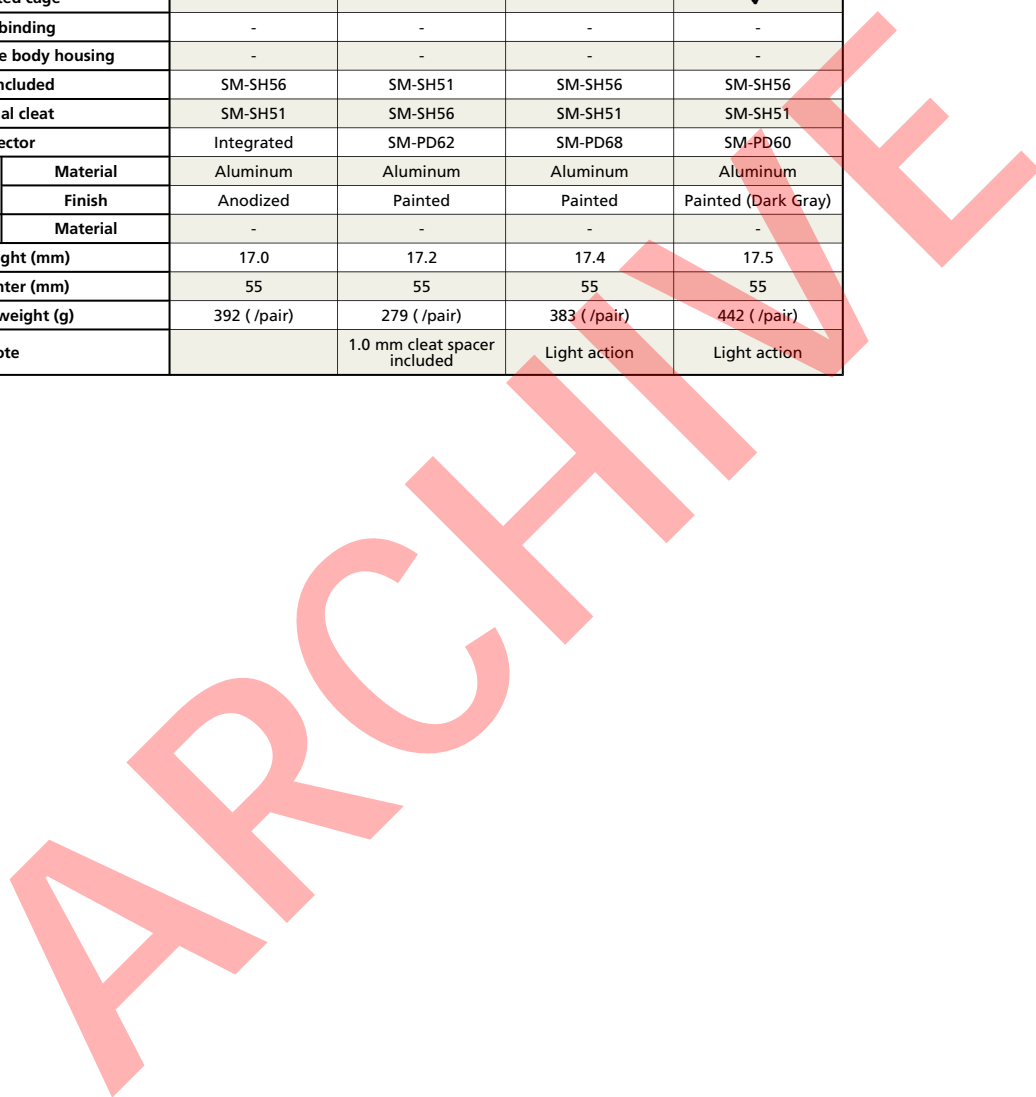
Pedal (SPD)

Series	XTR	XTR	DEORE XT	DEORE XT	SHIMANO	SHIMANO
Model no.	PD-M9100	PD-M9120	PD-M8100	PD-M8120	PD-M540	PD-M520
Color 1	Black	Black	Series color	Series color	Silver	Silver
Color 2	-	-	-	-	Black	Black
Color 3	-	-	-	-	-	-
Type	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)
Binding	Dual Sided	Dual Sided	Dual sided	Dual sided	Dual Sided	Dual Sided
Pedal axle material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartridge axle	✓	✓	✓	✓	✓	✓
Sealed mechanism	✓	✓	✓	✓	✓	✓
Cleat retention adjuster	✓	✓	✓	✓	✓	✓
Pop-up cage	-	-	-	-	-	-
Integrated cage	-	✓	-	✓	-	-
Offset binding	✓	-	-	-	-	-
Oval shape axle body housing	-	-	-	-	-	-
Cleat included	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51
Optional cleat	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56
Reflector	SM-PD60 SM-PD22 (3 mm shorter axle type)	SM-PD60	SM-PD60	SM-PD60	SM-PD22	SM-PD22
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized (Silver) /Painted (Black) /Painted (White)
Cage	Material	-	-	-	-	-
Stack height (mm)	15.1	15.4	16.5	16.2	17.0	17.0
Pedal center (mm)	55	55	55	55	55	55
Average weight (g)	310 (/pair) (Short axle type) 314 (/pair) (Normal axle type)	398 (/pair)	342 (/pair)	438 (/pair)	352 (/pair)	380 (/pair)
Note	3 mm shorter axle available 1.0 mm cleat spacer included	1.0 mm cleat spacer included	1.0 mm cleat spacer included	1.0 mm cleat spacer included		

Series	SHIMANO	SAINT	DXR	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-M505	PD-M821	PD-MX70	PD-M647	PD-M324	PD-ME700
Color 1	Silver	Black	Black	Black	Silver	Black
Color 2	Black	-	-	-	-	-
Color 3	-	-	-	-	-	-
Type	Off-Road (SPD)	Off-Road/DH (SPD)	Off-Road (SPD)	Off-Road/BMX (SPD)	Multi-purpose (SPD/Flat)	Off-Road (SPD)
Binding	Dual Sided	Dual sided	Dual sided	Dual Sided	Single Sided	Dual sided
Pedal axle material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartridge axle	-	✓	✓	✓	-	✓
Sealed mechanism	✓	✓	✓	✓	✓	✓
Cleat retention adjuster	✓	✓	✓	✓	✓	✓
Pop-up cage	-	-	-	✓	-	-
Integrated cage	-	✓	✓	-	-	✓
Offset binding	-	-	-	-	-	-
Oval shape axle body housing	-	-	-	-	-	-
Cleat included	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH56	SM-SH51
Optional cleat	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH51	SM-SH56
Reflector	SM-PD22	SM-PD60	SM-PD60	SM-PD60	Y41B98010	SM-PD60
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Polished (Silver) /Painted (Black)	Painted	Anodized	Painted	Painted
Cage	Material	-	-	Resin	Steel	-
Stack height (mm)	18.3	16.9	16.7	-	18	16.7
Pedal center (mm)	55	55	55	-	55	55
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			

Pedal (SPD)

Series	DEORE XT	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-T8000	PD-ES600	PD-EH500	PD-ED500
Color 1	Black	Dark Gray	Dark Gray	Dark Gray
Color 2	-	-	-	-
Color 3	-	-	-	-
Type	Trekking (SPD/Flat)	Road (SPD)	Multi-purpose (SPD/Flat)	Road (SPD)
Binding	Single Sided	Single Sided	Single Sided	Dual Sided
Pedal axle material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartridge axle	✓	✓	✓	✓
Sealed mechanism	✓	✓	✓	✓
Cleat retention adjuster	✓	✓	✓	✓
Pop-up cage	-	-	-	-
Integrated cage	-	-	-	✓
Offset binding	-	-	-	-
Oval shape axle body housing	-	-	-	-
Cleat included	SM-SH56	SM-SH51	SM-SH56	SM-SH56
Optional cleat	SM-SH51	SM-SH56	SM-SH51	SM-SH51
Reflector	Integrated	SM-PD62	SM-PD68	SM-PD60
Pedal body	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted (Dark Gray)
Cage	Material	-	-	-
	Stack height (mm)	17.0	17.2	17.4
Pedal center (mm)	55	55	55	55
Average weight (g)	392 (/pair)	279 (/pair)	383 (/pair)	442 (/pair)
Note		1.0 mm cleat spacer included	Light action	Light action



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Pedal (CLICK'R)

Series	SHIMANO	
Model no.	PD-T421	
Color 1	Black	
Color 2	-	
Color 3	-	
Type	Trekking (CLICK'R)	
Binding	Single Sided	
Pedal axle material	Chromoly Steel	
Cartridge axle	✓	
Sealed mechanism	✓	
Cleat retention adjuster	✓	
Pop-up cage	✓	
Integrated cage	-	
Offset binding	-	
Oval shape axle body housing	-	
Cleat included	SM-SH56	
Optional cleat	SM-SH51	
Reflector	Integrated	
Pedal body	Material	Aluminum
	Finish	Painted
Cage	Material	Resin
Stack height (mm)	19.0	
Pedal center (mm)	55	
Average weight (g)	418 (/pair)	
Note		

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Pedal (Flat Pedal)

Series	SAINT	DEORE XT	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-M828	PD-M8140	PD-GR500	PD-GR400	PD-EF202	PD-EF205
Color 1	Black	Black	Black	Black	Black	Black
Color 2	-	-	Silver	Blue	Silver	Silver
Color 3	-	-	-	Red	Red	Red
Color 4	-	-	-	-	Blue	Blue
Color 5	-	-	-	-	Gold	Gold
Type	Off-Road (Flat Pedal)	Off-Road (Flat Pedal)	Off-Road (Flat Pedal)	Off-Road (Flat Pedal)	Flat Pedal	Flat Pedal
Pedal axle material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartridge axle	✓	✓	✓	-	-	-
Sealed mechanism	✓	✓	✓	✓	✓	✓
Cleat retention adjuster	-	-	-	-	-	-
Pop-up cage	-	-	-	-	-	-
Integrated cage	-	-	-	-	-	-
Offset binding	-	-	-	-	-	-
Oval shape axle body housing	-	-	-	-	-	-
Cleat included	-	-	-	-	-	-
Optional cleat	-	-	-	-	-	-
Reflector	SM-PD64A	SM-PD67	SM-PD64A	SM-PD70	SM-PD69	SM-PD69
Pedal body	Material	Aluminum	Aluminum	Aluminum	Resin	Aluminum
	Finish	Anodized	Painted	Painted	-	Painted
Cage	Material	-	-	-	-	-
Wide platform	-	-	-	-	-	-
Stack height (mm)	8.2	9.1	9.4	-	10.8	10.8
Average weight (g)	553 (/pair)	461 (/pair) (SM) 505 (/pair) (ML)	533 (/pair)	400 (/pair)	512 (/pair)	612 (/pair)
Note	12 pins per platform	10 pins per platform 2 platform size available (SM/ML)	9 pins per platform	9 pins per platform		

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Pedal (Flat Pedal)

Series	SHIMANO	
Model no.	PD-EF102	
Color 1	Black	
Color 2	-	
Color 3	-	
Color 4	-	
Color 5	-	
Type	Flat Pedal	
Pedal axle material	Chromoly Steel	
Cartridge axle	-	
Sealed mechanism	✓	
Cleat retention adjuster	-	
Pop-up cage	-	
Integrated cage	-	
Offset binding	-	
Oval shape axle body housing	-	
Cleat included	-	
Optional cleat	-	
Reflector	Integrated	
Pedal body	Material	Resin
	Finish	-
Cage	Material	-
Wide platform	-	
Stack height (mm)	-	
Average weight (g)	310 (/pair)	
Note		

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Pedal (SPD-SL)

Series		DURA-ACE	ULTEGRA	SHIMANO 105	SHIMANO	SHIMANO
Model no.		PD-R9100	PD-R8000	PD-R7000	PD-R550	PD-RS500
Color 1		CFRP	CFRP	CFRP	Black	Black
Color 2		-	-	-	Gray	-
Color 3		-	-	-	-	-
Type		Road	Road	Road	Road	Road
Binding		Single Sided	Single Sided	Single Sided	Single Sided	Single Sided
Pedal axle material		Nickel Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartridge axle		-	✓	✓	✓	✓
Sealed mechanism		✓	✓	✓	✓	✓
Cleat retention adjuster		✓	✓	✓	✓	✓
Cleat included		SM-SH12	SM-SH11	SM-SH11	SM-SH11	SM-SH11
Optional cleat		SM-SH10, SM-SH11	SM-SH10, SM-SH12	SM-SH10, SM-SH12	SM-SH10, SM-SH12	SM-SH10, SM-SH12
Reflector		SM-PD63	SM-PD63	SM-PD65	SM-PD65	SM-PD65
Pedal body	Material	Carbon	Carbon	Carbon	Resin	Resin
	Finish	-	-	-	Painted	Painted
Body cover material		Special Stainless	Special Stainless	Stainless	Stainless	Stainless
Wide platform		✓	✓	✓	✓	-
Stack height (mm)		14.6	15.8	16.5	16.5	16.5
Pedal center (mm)		52	53	53	53	53
Road clearance (deg.)		35	33	31	32	30
Average weight (g)		228 (/pair)	248 (/pair)	265 (/pair)	310 (/pair)	320 (/pair)
Note		4 mm longer axle available, Hollow cleat bolts	4 mm longer axle available	-	Wider spring tension range	-

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PC Linkage Device		252	SMPCE	
Cord Band	252	SMCB		
Cord Clip	252	SMCC		

Shift Switch

Series	DEORE XT	DEORE XT
Model no.	SW-M8050-R	SW-M8050-L
Switch type	FIREBOLT	FIREBOLT
Position	Clamp band, Right	Clamp band, Left
Compatible electric wire	EW-SD50	EW-SD50
Switch QTY	2	2
SD50 port (pcs)	1	1
SD300 port (pcs)	0	0
SD50 connector (pcs)	0	0
SD300 connector (pcs)	0	0
Multiple input	2 step	-
	Hold	✓
Rear derailleur switch		
Front derailleur switch		
Suspension switch	-	** (✓)
Advanced seat post switch		
3rd device switch		
Mount position adjust	✓	✓
Master unit	-	-
Firmware update by E-TUBE PROJECT	✓	✓
Average weight (g)	93	93
Note		* User can use it for rear derailleur multishift ** User can use it for Suspension control

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Rear Derailleur

Series		XTR	DEORE XT
Model no.		RD-M9050-SGS	RD-M8050-GS
Pulley cage		SGS	GS
Color	1	Series color	Series color
	2	-	-
Rear speeds		11	11
Compatible chain		HG-X11	HG-X11
Top-normal spring type	SHIMANO SHADOW RD	✓	✓
	SHIMANO SHADOW RD+	✓	✓
	Double servo	-	-
Mount	Direct attachment (conventional)	✓	✓
	Direct mount	✓*	✓*
	Riveted adapter (road type)	-	-
	Riveted adapter (BMX-track type)	-	-
Mode converter		-	-
Cable adjuster		-	-
Max. front difference		18T	10T
Total capacity		41T**	35T**
Low sprocket	Max.	40T (3x11-speed) 42T (2x11-speed) 46T (1x11-speed)	42T (2x11-speed) 46T (1x11-speed)
	Min.	40T	40T
Top sprocket	Max.	11T	11T
	Min.	11T	11T
Fluoroc coated link bushings		4	4
Pulley	Guide pulley bearing	Sealed Bearing	Sealed Bearing
	Tension pulley bearing	Sealed Bearing	Sealed Bearing
	Teeth	11	11
	Screws material	Stainless steel	Stainless steel
Bracket	Material	Aluminum	Aluminum
	Finish	Anodizing	Anodizing
B-axle	Hollow axle	✓	✓
	Material	Aluminum	Aluminum
B-axle 2	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Bracket body	Material	Aluminum	Aluminum
	Finish	Painted	Painted
P-axle	Material	Steel	Steel
	Finish	-	-
Plate body	Material	CFRP	GFRP
	Finish	Painted	-
Outer link	Material	Aluminum	Aluminum
	Finish	Anodized	Painted
Inner link	Material	Aluminum	Steel
	Finish	Anodized	Painted
Outer plate	Material	CFRP	Aluminum
	Finish	Painted	Painted
Inner plate	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Cable fixing screw	Material	-	-
	Finish	-	-
Stroke adjusting screw	Material	-	-
	Finish	-	-
SD50 port (pcs)		1	1
SD300 port (pcs)		0	0
SD50 connector (pcs)		0	0
SD300 connector (pcs)		0	0
Average weight (g)		295	319
Note		* w/o Bracket spec available. ** The Di2 system limits cross chain to prevent a chain from getting loose.	* w/o Bracket spec available. ** The Di2 system limits cross chain to prevent a chain from getting loose.

Front Derailleur

Series		DEORE XT		
Model no.		FD-M8070		
Color	1	Series color		
	2	-		
Front speeds		2		
Rear speeds		11		
Compatible chain		HG-X11		
Action	TOP SWING	-		
	Down swing	✓		
	SIDE SWING	-		
Mount	Clamp band (mm)	28.6	w/ SM-FD905-L, SM-FD905-H	
		31.8	w/ SM-FD905-L, SM-FD905-H	
		34.9	w/ SM-FD905-L, SM-FD905-H	
	E-type	With bottom bracket plate	-	
		Without bottom bracket plate	w/ SM-FD905-E**	
	Direct mount	w/ SM-FD905-D**		
ISCG05 mount	-			
Chain line (mm)		48.8*		
Chainstay angle (deg.)		66 - 69		
Top gear teeth		38-34T		
Total capacity		10T		
Applicable top-mid tooth difference		-		
Angled stroke adjust screw		-		
Angled clamp band design		-		
Link bushings		7		
Front clamp band	Material	-		
	Finish	-		
Rear clamp band, base bracket	Material	-		
	Finish	-		
Clamp screw	Material	-		
	Finish	-		
Bottom bracket plate	Material	-		
	Finish	-		
Outer link	Material	Aluminum		
	Finish	Painted		
Inner link	Material	Steel		
	Finish	Plated		
Chain guide	Material	Steel		
	Finish	Nickel plated		
Stroke adjusting screw	Material	-		
	Finish	-		
Master unit		-		
Firmware update by E-TUBE PROJECT		✓		
SD50 port (pcs)		1		
SD300 port (pcs)		0		
SD50 connector (pcs)		0		
SD300 connector (pcs)		0		
Average weight (g) (band type: L size, direct type w/ screw)		134		
Note		* For FC 3 mm outboard spec, 51.8 mm ** Compatible with the special crankset which chain line is 3 mm outboard.		

SW

RD

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SMAD

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RD

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ST

ST

SW

RD

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SMAD

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EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

EWEC

SMPCE

SMCB

SMCA

SMCC

Mount Adapter for Front Derailleur

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-FD905-D	SM-FD905-E	SM-FD905-H	SM-FD905-L
Mount type		Direct mount	E type mount	High clamp band	Low clamp band
Front clamp band	Material	-	-	Aluminum	Aluminum
	Finish	-	-	Painted	Painted
Rear clamp band	Material	-	-	Aluminum	Aluminum
	Finish	-	-	Painted	Painted
Clamp band diameter (mm)	28.6	-	-	*✓	*✓
	31.8	-	-	*✓	*✓
	34.9	-	-	✓	✓
Direct mount bracket	Material	Aluminum	Aluminum	-	-
	Finish	Painted	Painted	-	-
Crankset top gear teeth		40T-34T	40T-34T	40T-34T	40T-34T
Average weight (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

ARCHIVE

System Information Display

Series		SHIMANO
Model no.		SC-MT800
Compatible system		E-TUBE system
Wireless system***		ANT private* Bluetooth®LE
Attachment position		Handle bar**
Display detachable		-
Adjust button		✓
Display function***	Gear indicator (rear)	11
	Gear indicator (front)	1/2/3
	Shifting Mode (manual / SYNCHRONIZED SHIFT)	✓
	Suspension Mode	✓
	Shifting adjust mode	✓
	Battery charge level	✓
Setting function	Shifting adjust	✓
For Di2 system	Shifting adjust indicator	✓
	System diagnosis	✓
	Charging port for built-in battery	✓
	Compatible charger	SM-BCR2
	SYNCHRONIZED SHIFT mode change	✓
Master unit		-
Firmware update by E-TUBE PROJECT		✓
SD50 port (pcs)		3
SD300 port (pcs)		0
SD50 connector (pcs)		0
SD300 connector (pcs)		0
Average weight (g)		30
Note		<p>* ANT private has compatibility with ANT+ cycle computer but not freely open profile.</p> <p>** 2 Spec of clamp band diameter ø31.8 and ø35.0</p> <p>*** Data of list of "Display function" is sent to other digital device by ANT private.</p>

SW

RD

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SMAD

SC

SL

RD

FD

ST

ST

SW

RD

FD

SMAD

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MU

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

EWEC

SMPCE

SMCB

SMCA

SMCC

Shift/Brake Lever (Hydraulic Disc Brake)

Series		GRX	GRX	
Model no.		ST-RX815-R	ST-RX815-L	
Color	1	Series color	Series color	
	2	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Remote switch		✓	✓	
Brake lever	Brake hose (kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR
	Hose joint		Straight	Straight
	Brake hose color (kit)	1	Black	Black
		2	-	-
	Recommended brake caliper		BR-RX810	BR-RX810
	Oil		SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓
	Clamp band (mm)		23.8-24.2	23.8-24.2
	Funnel bleeding		✓	✓
	Free stroke adjust		✓	✓
SERVO WAVE		✓	✓	
Bracket	Material		CFRP	CFRP
	Finish		-	-
Electric button	Material		-	-
	Finish		-	-
Brake lever	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Di2 connectivity wired	Di2 shifting	✓	✓	
Di2 connectivity wireless	Di2 shifting	-	-	
Master unit		-	-	
Firmware update by E-TUBE PROJECT		✓	✓	
SD50 port (pcs)		2	2	
SD300 port (pcs)		0	0	
SD50 connector (pcs)		0	0	
SD300 connector (pcs)		0	0	
Port for SD50 remote sprinter shifter (pcs)		0	0	
Port for SD300 satellite shifter (pcs)		0	0	
Battery		-	-	
Average weight (g)		373 (/pair)	373 (/pair)	
Note				

Rear Derailleur

Series		GRX	GRX	
Model no.		RD-RX815	RD-RX817	
Pulley cage		-	-	
Color	1	Series color	Series color	
	2	-	-	
Rear speeds		11	11	
Top-normal spring type	SHIMANO SHADOW RD	-	-	
	SHIMANO SHADOW RD+	✓	✓	
Mount	Double servo	-	-	
	Direct attachment (conventional)	✓	✓	
	Direct mount	✓	✓	
	Riveted adapter (road type)	-	-	
	Riveted adapter (BMX-track type)	-	-	
Max. front difference		17T	-	
Total capacity		38T	31T	
Low sprocket	Max.	34T	42T	
	Min.	30T	40T	
Top sprocket	Max.	11T	11T	
	Min.	11T	11T	
Fluoric coated link bushings		4	4	
Pulley	Guide pulley bearing	Sealed bearing	Sealed bearing	
	Tension pulley bearing	Sealed bearing	Sealed bearing	
	Teeth	13T	11T	
	Screws material	Stainless	Stainless	
	Sunken type pulley screw	-	-	
Bracket	Material	Aluminum	Aluminum	
	Finish	Anodized	Anodized	
B-axle	Hollow axle	✓	✓	
	Material	Stainless	Stainless	
B-axle 2	Hollow axle	-	-	
	Material	Aluminum	Aluminum	
Bracket body	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
P-axle	Material	Steel	Steel	
	Finish	Plating	Plating	
Plate body	Material	GFRP	Aluminum	
	Finish	Painted	Painted	
Outer link	Material	Aluminum	Aluminum	
	Finish	Anodized	Painted	
Inner link	Material	GFRP	Steel	
	Finish	-	GFRP	
Outer plate	Material	Aluminum	-	
	Finish	Painted	Painted	
Inner plate	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Stroke adjusting screw	Material	Steel	Steel	
	Finish	Plating	Plating	
Di2 connectivity wired		Di2 shifting	✓	✓
Di2 connectivity wireless	Di2 shifting		-	-
	Bluetooth h@LE	Cycling power	-	-
		Bicycle power	-	-
		Adjust mode information	-	-
	Bluetooth h@LE custom (*1)	Di2 battery level	-	-
		Gear position	-	-
		SHIMANO STEPS data items (*3)	-	-
		Compatible with E-TUBE RIDE	-	-
		Compatible with E-TUBE PROJECT	-	-
		Adjust mode information	-	-
	ANT private (*2)	Di2 battery level	-	-
		Gear position	-	-
		SHIMANO STEPS data items (*3)	-	-
	Firmware update by E-TUBE PROJECT		✓	✓
	SD50 port (pcs)		1	1
SD300 port (pcs)		0	0	
SD50 connector (pcs)		0	0	
SD300 connector (pcs)		0	0	
LED for system status		-	-	
Charging port (pcs)		-	-	
Average weight (g)		287	318	
<p>Note</p> <p>*1 Bluetooth LE custom has compatibility with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile.</p> <p>*2 ANT private has compatibility with ANT+ cycle computer but not freely open profile.</p> <p>*3 SHIMANO STEPS data items will be shown only when connected to SHIMANO STEPS bike</p>				

Front Derailleur

Series		GRX
Model no.		FD-RX815-F
Color	1	Series Color
	2	-
Front speeds		2
Rear speeds		11
Compatible chain		HG-EV 11-speed/ HG-X11
Action	TOP SWING	-
	Down swing	✓
Mount	Clamp band1	-
	Clamp band2	-
	Clamp band3	-
	Brazed-on	✓
Chain line (mm)		47
Chainstay angle (deg.)		61-66
Top gear teeth		46-48T
Total capacity		17T
Link bushings		2
Front clamp band	Material	-
	Finish	-
Rear clamp band, base bracket	Material	Aluminum
	Finish	Painted
Outer link	Material	CFRP
	Finish	Painted
Inner link	Material	Steel
	Finish	Plated
Chain guide	Material	Steel
	Finish	Chrome plated
Master unit		-
Firmware update by E-TUBE PROJECT		✓
SD50 port (pcs)		1
SD300 port (pcs)		0
SD50 connector (pcs)		0
SD300 connector (pcs)		0
Average weight (g) (band type: L size, direct type w/ screw)		135
Note		

- SW
- RD
- FD
- SMAD
- SC
- SL
- RD
- FD
- ST
- ST
- SW
- RD
- FD
- SMAD
- SG
- MU
- EW
- EWC
- GM
- WU
- JC
- JC
- BT
- BM
- SMBT
- SMBC
- BCC
- EWEC
- SMPCE
- SMCB
- SMCA
- SMCC

Shift/Brake Lever (Hydraulic Disc Brake)

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	DURA-ACE	DURA-ACE	
Model no.		ST-R9270-R	ST-R9270-L	ST-R8170-R	ST-R8170-L	ST-R9170-R	ST-R9170-L	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Remote switch		✓	✓	✓	✓	✓	✓	
Brake lever	Brake hose (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	
	Hose joint	Straight	Straight	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
	Recommended brake caliper	BR-R9270	BR-R9270	BR-R8170	BR-R8170	BR-R9170	BR-R9170	
	Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	
	Reach adjust	✓	✓	✓	✓	✓	✓	
	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	
	Funnel bleeding	✓	✓	✓	✓	✓	✓	
	Free stroke adjust	✓	✓	✓	✓	✓	✓	
SERVO WAVE	✓	✓	✓	✓	-	-		
Bracket	Material	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP	
	Finish	-	-	-	-	-	-	
Electric button	Material	CFRP	CFRP	CFRP	CFRP	-	-	
	Finish	Painted	Painted	Painted	Painted	-	-	
Brake lever	Material	CFRP	CFRP	Aluminium	Aluminium	Carbon	Carbon	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Di2 connectivity wired	Di2 shifting	✓	✓	✓	✓	✓	✓	
Di2 connectivity wireless	Di2 shifting	✓	✓	✓	✓	-	-	
Master unit		-	-	-	-	-	-	
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓	
SD50 port (pcs)		0	0	0	0	2	2	
SD300 port (pcs)		1	1	1	1	0	0	
SD50 connector (pcs)		0	0	0	0	0	0	
SD300 connector (pcs)		0	0	0	0	0	0	
Port for SD50 remote sprinter shifter (pcs)		0	0	0	0	0	0	
Port for SD300 satellite shifter (pcs)		1	1	1	1	0	0	
Battery		CR1632	CR1632	CR1632	CR1632	-	-	
Average weight (g)		350 (/pair)	350 (/pair)	391 (/pair)	391 (/pair)	160	160	
Note								

Shift/Brake Lever (Hydraulic Disc Brake)

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	
Model no.		ST-R9180-R	ST-R9180-L	ST-R8070-R	ST-R8070-L	
Color	1	Series color	Series color	Series color	Series color	
	2	-	-	-	-	
Shifter type		TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Remote switch		-	-	✓	✓	
Brake lever	Brake hose (kit)		SM-BH90-JK-SS	SM-BH90-JK-SS	SM-BH90-JK-SSR	SM-BH90-JK-SSR
	Hose joint		Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black
		2	-	-	-	-
	Recommended brake caliper		BR-R9170	BR-R9170	BR-R8070	BR-R8070
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓	✓	✓
	Clamp band (mm)		INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	23.8 - 24.2	23.8 - 24.2
	Funnel bleeding		✓	✓	✓	✓
	Free stroke adjust		-	-	✓	✓
SERVO WAVE		-	-	-	-	
Bracket	Material	Aluminum	Aluminum	CFRP	CFRP	
	Finish	-	-	-	-	
Electric button	Material	CFRP	CFRP	-	-	
	Finish	-	-	-	-	
Brake lever	Material	CFRP	CFRP	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	
Di2 connectivity wired	Di2 shifting	✓	✓	✓	✓	
Di2 connectivity wireless	Di2 shifting	-	-	-	-	
Master unit		-	-	-	-	
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	
SD50 port (pcs)		1	1	2	2	
SD300 port (pcs)		0	0	0	0	
SD50 connector (pcs)		0	0	0	0	
SD300 connector (pcs)		0	0	0	0	
Port for SD50 remote sprinter shifter (pcs)		0	0	0	0	
Port for SD300 satellite shifter (pcs)		0	0	0	0	
Battery		-	-	-	-	
Average weight (g)		99	99	180	180	
Note						

SW

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JC

BT

BM

SMBT

SMBC

BCC

EWEC

SMPCE

SMCB

SMCA

SMCC

Shift/Brake Lever

Series	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	DURA-ACE	DURA-ACE
Model no.	ST-R9250-R	ST-R9250-L	ST-R8150-R	ST-R8150-L	ST-R9150-R	ST-R9150-L
Shifter type	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Remote switch	✓	✓	✓	✓	✓	✓
Brake lever	Reach adjust	✓	✓	✓	✓	✓
	Clamp band (mm)	23.8/24.2	23.8/24.2	23.8/24.2	23.8/24.2	23.8/24.2
	SLR-EV	✓	✓	✓	✓	✓
Bracket	Material	CFRP	CFRP	GFRP	GFRP	CFRP
	Finish	-	-	-	-	-
Electric button	Material	CFRP	CFRP	GFRP	GFRP	CFRP
	Finish	Painted	Painted	-	-	-
Brake lever	Material	CFRP	CFRP	Aluminium	Aluminium	CFRP
	Finish	Painted	Painted	Painted	Painted	Painted
Master unit	-	-	-	-	-	-
Firmware update by E-TUBE PROJECT	✓	✓	✓	✓	✓	✓
Di2 connectivity wired	Di2 shifting	✓	✓	✓	✓	✓
Di2 connectivity wireless	Di2 shifting	-	-	-	-	-
SD50 port (pcs)	0	0	0	0	2	2
SD300 port (pcs)	2	2	2	2	0	0
SD50 connector (pcs)	0	0	0	0	0	0
SD300 connector (pcs)	0	0	0	0	0	0
Port for SD50 remote sprinter shifter (pcs)	0	0	0	0	1	1
Port for SD300 satellite shifter (pcs)	1	1	1	1	-	-
Battery	-	-	-	-	-	-
Average weight (g)	230 (/pair)	230 (/pair)	295 (/pair)	295 (/pair)	230 (/pair)	230 (/pair)
Note	-	-	-	-	-	-

Series	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.	ST-R9160-R	ST-R9160-L	ST-R8050-R	ST-R8050-L	ST-R8060-R	ST-R8060-L
Shifter type	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER
Remote switch	-	-	✓	✓	-	-
Brake lever	Reach adjust	✓	✓	✓	✓	✓
	Clamp band (mm)	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	23.8/24.2	23.8/24.2	INNER DIA. 19.0 - 22.5
	SLR-EV	✓	✓	✓	✓	✓
Bracket	Material	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-
Electric button	Material	CFRP	CFRP	GFRP	GFRP	CFRP
	Finish	-	-	-	-	-
Brake lever	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Anodized
Master unit	-	-	-	-	-	-
Firmware update by E-TUBE PROJECT	✓	✓	✓	✓	✓	✓
Di2 connectivity wired	Di2 shifting	✓	✓	✓	✓	✓
Di2 connectivity wireless	Di2 shifting	-	-	-	-	-
SD50 port (pcs)	1	1	2	2	1	1
SD300 port (pcs)	0	0	0	0	0	0
SD50 connector (pcs)	0	0	0	0	0	0
SD300 connector (pcs)	0	0	0	0	0	0
Port for SD50 remote sprinter shifter (pcs)	0	0	1	1	0	0
Port for SD300 satellite shifter (pcs)	-	-	-	-	-	-
Battery	-	-	-	-	-	-
Average weight (g)	127 (/pair)	127 (/pair)	295 (/pair)	295 (/pair)	138 (/pair)	138 (/pair)
Note	-	-	-	-	-	-

Shift/Brake Lever

Series		ULTEGRA	ULTEGRA
Model no.		ST-6870	ST-6871
Shifter type		DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER
Remote switch		-	-
Brake lever	Reach adjust	✓	✓
	Clamp band (mm)	23.8/24.2	INNER DIA. 19.0 - 22.5
	SLR-EV	✓	✓
Bracket	Material	GFRP	CFRP
	Finish	-	-
Electric button	Material	GFRP	GFRP
	Finish	-	-
Brake lever	Material	Aluminum	Aluminum
	Finish	Painted	Anodized
Master unit		-	-
Firmware update by E-TUBE PROJECT		✓	✓
Di2 connectivity wired	Di2 shifting	✓	✓
Di2 connectivity wireless	Di2 shifting	-	-
SD50 port (pcs)		2/each, total 4	0
SD300 port (pcs)		0	0
SD50 connector (pcs)		0	1/each, total 2
SD300 connector (pcs)		0	0
Port for SD50 remote sprinter shifter (pcs)		1/each, total 2	0
Port for SD300 satellite shifter (pcs)		-	-
Battery		-	-
Average weight (g)		303.2 (/pair)	148 (/pair)
Note		-	-

ARCHIVE

- SW
- RD
- FD
- SMAD
- SC
- SL
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- ST
- ST**
- SW
- RD
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- SMAD
- SG
- MU
- EW
- EWC
- GM
- WU
- JC
- JC
- BT
- BM
- SMBT
- SMBC
- BCC
- EWEC
- SMPCE
- SMCB
- SMCA
- SMCC

Shift Switch

Series	SHIMANO	SHIMANO	SHIMANO	DURA-ACE	SHIMANO	SHIMANO
Model no.	SW-RS801-S	SW-RS801-T	SW-R9150	SW-R9160	SW-R671	SW-R610
Switch type	Short cable, for Remote sprinter switch	Long cable, for Top bar switch	Option SW, pair	Bar-end SW for TT, pair	Remote Triathlon shifter Current 2 button design, pair	Remote sprinter shifter, pair
Position	On road Bar	Top handle	On road Bar	DH Bar	DH Bar	Anywhere
Compatible electric wire	-	-	EW-SD50	EW-SD50	EW-SD50	-
Master unit	-	-	-	-	-	-
Firmware update by E-TUBE PROJECT	-	-	✓	✓	✓	-
SD50 port (pcs)	0	0	0	2	0	0
SD300 port (pcs)	0	0	0	0	0	0
SD50 connector (pcs)	0	0	2	0	2	0
SD300 connector (pcs)	0	0	0	0	0	0
Connector for SD50 remote sprinter shifter (pcs)	0	0	0	0	0	2
Connector for SD300 satellite shifter (pcs)	1/each total 2	1/each total 2	0	0	0	0
Port for SD50 remote sprinter shifter (pcs)	0	0	0	0	0	0
Port for SD300 satellite shifter (pcs)	0	0	0	0	0	0
Wireless shifting	-	-	-	-	-	-
Average weight (g)	6.4 (/pair)	13.2 (/pair)	12 (/pair)	40 (/pair)	100 (/pair)	5.8 (/pair)
Note	2 pcs switch in a spec model	2 pcs switch in a spec model				

Series	SHIMANO
Model no.	SW-R600
Switch type	Remote satellite shifter (Climbing shifter)
Position	Anywhere
Compatible electric wire	EW-SD50
Master unit	-
Firmware update by E-TUBE PROJECT	✓
SD50 port (pcs)	0
SD300 port (pcs)	0
SD50 connector (pcs)	1
SD300 connector (pcs)	0
Connector for SD50 remote sprinter shifter (pcs)	0
Connector for SD300 satellite shifter (pcs)	0
Port for SD50 remote sprinter shifter (pcs)	0
Port for SD300 satellite shifter (pcs)	0
Wireless shifting	-
Average weight (g)	19 (/pc)
Note	

Rear Derailleur

Series	DURA-ACE	ULTEGRA	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	
Model no.	RD-R9250	RD-R8150	RD-R9150	RD-R8050-SS	RD-R8050-GS	RD-6870-SS	
Pulley cage	-	-	SS	SS	GS	SS	
Color	1	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	
Rear speeds	12	12	11	11	11	11	
Top-normal spring type	SHIMANO SHADOW RD	✓	✓	✓	✓	-	
	SHIMANO SHADOW RD+	-	-	-	-	-	
	Double servo	-	-	-	-	✓	
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	
	Direct mount	✓	✓	✓	✓*	✓	
	Riveted adapter (road type)	-	-	-	-	-	
	Riveted adapter (BMX-track type)	-	-	-	-	-	
Max. front difference	16T	16T	16T	16T	16T	16T	
Total capacity	37T	39T	33T	33T	37T	33T	
Low sprocket	Max.	34T	34T	30T	30T	34T	
	Min.	28T	28T	25T	25T	28T	
Top sprocket	Max.	11T	14T	14T	14T	12T	
	Min.	11T	11T	11T	11T	11T	
Fluoric coated link bushings	4	4	4	4	4	4	
Pulley	Guide pulley bearing	✓	✓	✓	✓	✓	
	Tension pulley bearing	✓	✓	✓	✓	✓	
	Teeth	11	11	11	11	11	
	Screws material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Sunken type pulley screw	✓	✓	✓	✓	✓	
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Painted	Anodized	Anodized	Anodized	
B-axle	Hollow axle	✓	✓	✓	✓	✓	
	Material	Aluminum	Stainless steel	Aluminum	Stainless steel	Stainless steel	
B-axle 2	Hollow axle	✓	✓	✓	✓	Passivation	
	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	
P-axle	Material	Aluminum	Steel	Aluminum	Steel	Aluminum	
	Finish	Plated	Passivation	Plated	Passivation	Plated	
Plate body	Material	CFRP	GFRP	CFRP	GFRP	CFRP	
	Finish	Painted	Painted	Painted	Painted	Painted	
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Painted	Anodized	Painted	Painted	
Inner link	Material	CFRP	GFRP	CFRP	GFRP	CFRP	
	Finish	-	-	Painted	-	Painted	
Outer plate	Material	CFRP	Aluminum	CFRP	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	
Inner plate	Material	CFRP	Aluminum	CFRP	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	
Stroke adjusting screw	Material	Aluminum	Steel	Aluminum	Steel	Stainless steel	
Di2 connectivity wired	Material	Anodized	Plated	Anodized	Plated	Plated	
	Finish	-	-	-	-	Black coating	
Di2 connectivity wireless	Di2 shifting	✓	✓	✓	✓	✓	
	Di2 shifting	✓	✓	-	-	-	
	Bluetooth h@ LE	-	-	-	-	-	
	ANT+	-	-	-	-	-	
	Bluetooth h@ LE custom (*1)	Bicycle power	✓	✓	-	-	-
		Adjust mode information	✓	✓	-	-	-
		Di2 battery level	✓	✓	-	-	-
		Gear position	✓	✓	-	-	-
		SHIMANO STEPS data items (*2)	✓	✓	-	-	-
		Compatible with E-TUBE RIDE	✓	✓	-	-	-
	ANT private (*2)	Compatible with E-TUBE PROJECT	✓	✓	-	-	-
		Adjust mode information	✓	✓	-	-	-
Di2 battery level		✓	✓	-	-	-	
Firmware update by E-TUBE PROJECT	Gear position SHIMANO STEPS data items (*3)	✓	✓	-	-	-	
	SD50 port (pcs)	0	0	1	1	1	
	SD300 port (pcs)	1	1	0	0	0	
SD50 connector (pcs)	0	0	0	0	0		
SD300 connector (pcs)	0	0	0	0	0		
LED for system status	✓	✓	-	-	-		
Charging port	✓	✓	-	-	-		
Charging cable	EW-EC300	EW-EC300	-	-	-		
Average weight (g)	215	262	197	240	247		
Note	<p>*1 Bluetooth LE custom has compatibility with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile.</p> <p>*2 ANT private has compatibility with ANT+ cycle computer but not freely open profile.</p> <p>*3 SHIMANO STEPS data items will be shown only when connected to SHIMANO STEPS bike</p>						
	w/o Bracket spec. available	w/o Bracket spec. available	w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available		

- SW
- RD
- FD
- SMAD
- SC
- SL
- RD
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- ST
- ST
- SW
- RD
- FD
- SMAD
- SG
- MU
- EW
- EWC
- GM
- WU
- JC
- JC
- BT
- BM
- SMBT
- SMBC
- BCC
- EWEC
- SMPCE
- SMCB
- SMCA
- SMCC

Rear Derailleur

Series		ULTEGRA	ULTEGRA RX	
Model no.		RD-6870-GS	RD-RX805-GS	
Pulley cage		GS	GS	
Color	1	Series color	Series color	
	2	-	-	
Rear speeds		11	11	
Top-normal spring type	SHIMANO SHADOW RD	-	-	
	SHIMANO SHADOW RD+	-	✓	
	Double servo	✓	-	
Mount	Direct attachment (conventional)	✓	✓	
	Direct mount	✓	✓*	
	Riveted adapter (road type)	-	-	
	Riveted adapter (BMX-track type)	-	-	
Max. front difference		16T	16T	
Total capacity		37T	39T	
Low sprocket	Max.	32T	34T	
	Min.	28T	28T	
Top sprocket	Max.	12T	11T	
	Min.	11T	11T	
Fluoric coated link bushings		4	4	
Pulley	Guide pulley bearing	✓	✓	
	Tension pulley bearing	✓	✓	
	Teeth	11	11	
	Screws material	Stainless steel	Stainless steel	
	Sunken type pulley screw	✓	✓	
Bracket	Material	Aluminum	Aluminum	
	Finish	✓	Anodized	
B-axle	Hollow axle	-	✓	
	Material	Stainless steel	Stainless steel	
B-axle 2	Material	Passivation	-	
	Finish	-	✓	
Bracket body	Material	-	Aluminum	
	Finish	-	Anodized	
P-axle	Material	Aluminum	Aluminum	
	Finish	Plated	Painted	
Plate body	Material	CFRP	Aluminum	
	Finish	Painted	Painted	
Outer link	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Inner link	Material	Steel	GFRP	
	Finish	Painted	-	
Outer plate	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Inner plate	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Stroke adjusting screw	Material	Stainless steel	Steel	
	Finish	Black coating	Plated	
Di2 connectivity wired	Di2 shifting	✓	✓	
	Di2 shifting	-	-	
Di2 connectivity wireless	Bluetooth® LE	Cycling power	-	
	ANT+	Bicycle power	-	
		Adjust mode information	-	
	Bluetooth® LE custom (*1)	Di2 battery level	-	
		Gear position	-	
		SHIMANO STEPS data items (*2)	-	
		Compatible with E-TUBE RIDE	-	
		Compatible with E-TUBE PROJECT	-	
		Adjust mode information	-	
	ANT private (*2)	Di2 battery level	-	
		Gear position	-	
		SHIMANO STEPS data items (*3)	-	
	Firmware update by E-TUBE PROJECT		✓	✓
	SD50 port (pcs)		1	1
SD300 port (pcs)		0	0	
SD50 connector (pcs)		0	0	
SD300 connector (pcs)		0	0	
LED for system status		-	-	
Charging port		-	-	
Charging cable		-	-	
Average weight (g)		268	280	
Note				
*1 Bluetooth LE custom has compatibility with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile.				
*2 ANT private has compatibility with ANT+ cycle computer but not freely open profile.				
*3 SHIMANO STEPS data items will be shown only when connected to SHIMANO STEPS bike				
			* w/o Bracket spec available	

Front Derailleur

Series		DURA-ACE	ULTEGRA	DURA-ACE	ULTEGRA	ULTEGRA
Model no.		FD-R9250	FD-R8150	FD-R9150	FD-R8050	FD-6870-F
Color	1	Series color	Series color	Series color	Series Color	Series color
	2	-	-	-	-	-
Front speeds		2	2	2	2	2
Rear speeds		12	12	11	11	11
Compatible chain		HG 12-speed	HG 12-speed	HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11
Action	TOP SWING	-	-	-	-	-
	Down swing	✓	✓	✓	✓	✓
Mount	Clamp band1	-	-	-	-	-
	Clamp band2	-	-	-	-	-
	Clamp band3	-	-	-	-	-
	Brazed-on	✓	✓	✓	✓	✓
Chain line (mm)		44.5	44.5	43.5	43.5	43.5
Chainstay angle (deg.)		61 - 66	61 - 66	61 - 66	61 - 66	61 - 66
Top gear teeth		50-54T	50-52T	50T-55T	46T-53T	46T-53T
Total capacity		16T	16T	16T	16T, 17T*	16T
Link bushings		4	4	4	2	4
Front clamp band	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Painted	Painted
Outer link	Material	Aluminum	Aluminum	CFRP	CFRP	CFRP
	Finish	Anodized	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Titanium	Steel	Steel
	Finish	Plated	Painted	-	Plated	Plated
Chain guide	Material	Aluminum	Steel	Aluminum	Steel	Steel
	Finish	Plated	Plated	Nickel plated	Chrome plated	Chrome plated
Master unit		-	-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓
SD50 port (pcs)		0	0	1	1	1
SD300 port (pcs)		1	1	0	0	0
SD50 connector (pcs)		0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0
Average weight (g) (band type: L size, direct type w/ screw)		96	110	104	132	138.5
Note					* Use with E-BIKE	

Front Derailleur (Adapter)

Series		DURA-ACE	DURA-ACE
Model no.		SM-AD91-L	SM-AD91-MS
Front clamp band	Material	Aluminum	Aluminum
	Finish	Painted	Anodized
Rear clamp band	Material	Aluminum	Aluminum
	Finish	Painted	Anodized
Clamp band diameter (mm)	28.6	-	✓*
	31.8	-	✓
	34.9	✓	-
Note			* w/ Multi Clamp Band

SW

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SMAD

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RD

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SW

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SMAD

SG

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EW

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BT

BM

SMBT

SMBC

BCC

EWEC

SMPCE

SMCB

SMCA

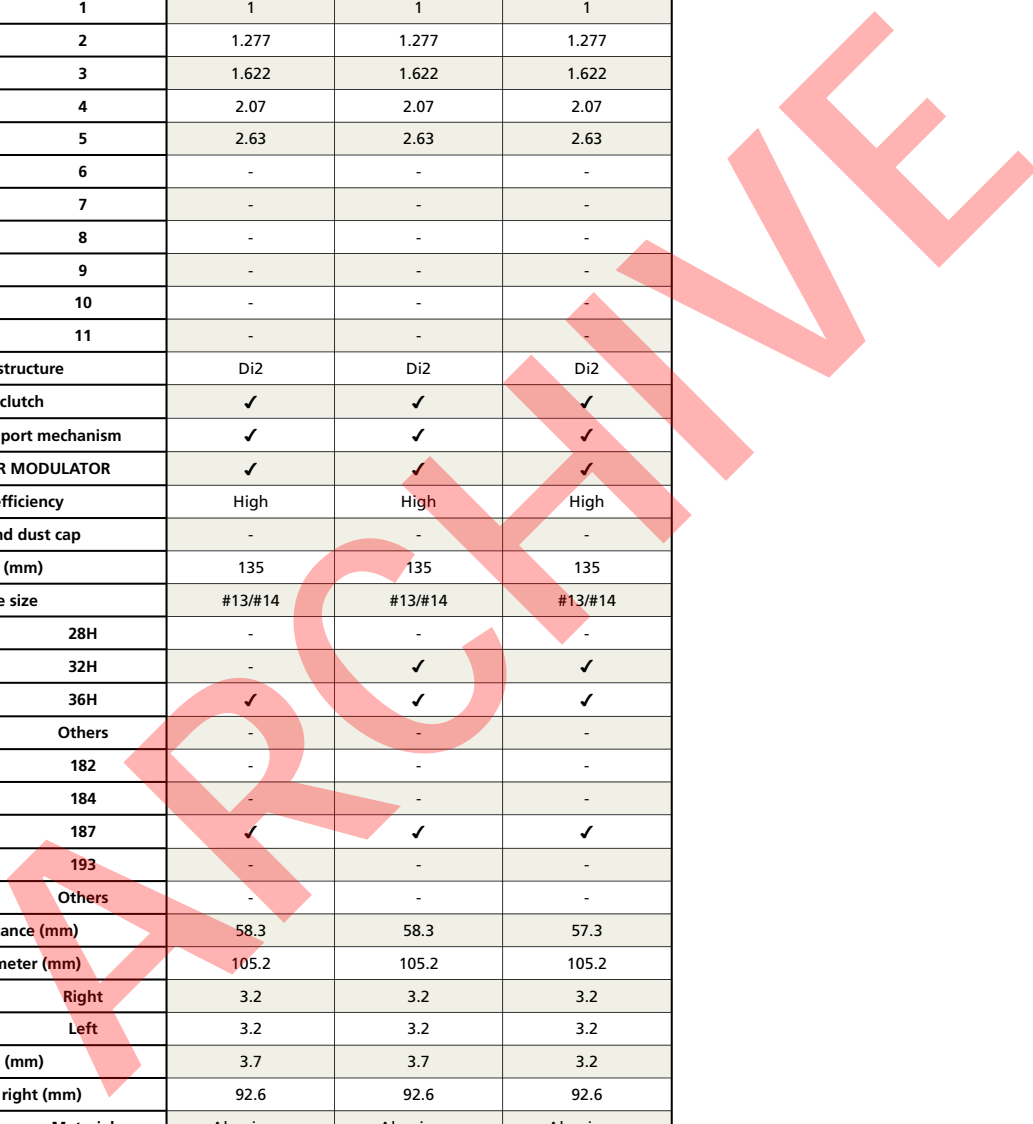
SMCC

Internal Geared Hub

Series		ALFINE	ALFINE	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-S7051-11	SG-S7051-8	SG-C6061-8V	SG-C6061-8R	SG-C6061-8D	SG-C7050-5V
Function name		INTER-11	INTER-8	INTER-8	INTER-8	INTER-8	INTER-5E
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Brake type	Mount type	CENTER LOCK disc brake	CENTER LOCK disc brake	V-BRAKE	INTER-M	CENTER LOCK disc brake	V-BRAKE
	Recommended model	-	-	-	-	-	-
Rear speeds		11	8	8	8	8	5
Gear ratio	Total	409%	307%	307%	307%	307%	263%
	1	0.527	0.527	0.527	0.527	0.527	1
	2	0.681	0.644	0.644	0.644	0.644	1.277
	3	0.770	0.748	0.748	0.748	0.748	1.622
	4	0.878	0.851	0.851	0.851	0.851	2.07
	5	0.995	1	1	1	1	2.63
	6	1.134	1.223	1.223	1.223	1.223	-
	7	1.292	1.419	1.419	1.419	1.419	-
	8	1.462	1.615	1.615	1.615	1.615	-
	9	1.667	-	-	-	-	-
	10	1.888	-	-	-	-	-
Shifting structure		Di2	Di2	Di2	Di2	Di2	Di2
Silent clutch		✓	✓	✓	✓	✓	✓
Gear change support mechanism		✓	✓	✓	✓	✓	✓
Shifting POWER MODULATOR		✓	✓	✓	✓	✓	✓
Driving efficiency		HIGH	High	High	High	High	High
w/ Left hand dust cap		-	-	✓	-	-	✓
O.L.D. (mm)		135	135	135	135	135	135
Spoke size		#13 / #14	#13 / #14	#13 / #14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	✓	-	-	-	-	-
	32H	✓	✓	-	-	✓	-
	36H	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	-	-	-
	184	-	-	-	-	-	-
	187	✓	✓	✓	✓	✓	✓
	193	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Flange distance (mm)		57.3	57.3	58.3	58.3	57.3	58.3
Flange diameter (mm)		104.3	104.3	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset (mm)		3.15	3.15	3.1	3.1	3.4	3.7
P.C.D. left / right (mm)		92.6	92.6	92.6	92.6	92.6	92.6
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Average weight (g)		1665	1670	1685	1660	1680	1670
Note		-	-	-	-	-	-

Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS
Model no.		SG-C7050-5R	SG-C7050-5C	SG-C7050-5D
Function name		INTER-5E	INTER-5E	INTER-5E
Color	1	Silver	Silver	Silver
	2	Black	Black	Black
	3	-	-	-
Brake type	Mount type	INTER-M	Coaster brake	CENTER LOCK disc brake
	Recommended model	BR-C6000 BR-C3010 BR-C3000	-	-
Rear speeds		5	5	5
Gear ratio	Total	263%	263%	263%
	1	1	1	1
	2	1.277	1.277	1.277
	3	1.622	1.622	1.622
	4	2.07	2.07	2.07
	5	2.63	2.63	2.63
	6	-	-	-
	7	-	-	-
	8	-	-	-
	9	-	-	-
	10	-	-	-
11	-	-	-	
Shifting structure		Di2	Di2	Di2
Silent clutch		✓	✓	✓
Gear change support mechanism		✓	✓	✓
Shifting POWER MODULATOR		✓	✓	✓
Driving efficiency		High	High	High
w/ Left hand dust cap		-	-	-
O.L.D. (mm)		135	135	135
Spoke size		#13/#14	#13/#14	#13/#14
Spoke hole	28H	-	-	-
	32H	-	✓	✓
	36H	✓	✓	✓
	Others	-	-	-
Axle length (mm)	182	-	-	-
	184	-	-	-
	187	✓	✓	✓
	193	-	-	-
	Others	-	-	-
Flange distance (mm)		58.3	58.3	57.3
Flange diameter (mm)		105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2
	Left	3.2	3.2	3.2
Offset (mm)		3.7	3.7	3.2
P.C.D. left / right (mm)		92.6	92.6	92.6
Hub shell	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Average weight (g)		1670	1970	1670
Note				



- SW
- RD
- FD
- SMAD
- SC
- SL
- RD
- FD
- ST
- ST
- SW
- RD
- FD
- SMAD
- SG**
- MU
- EW
- EWC
- GM
- WU
- JC
- JC
- BT
- BM
- SMBT
- SMBC
- BCC
- EWEC
- SMPCE
- SMCB
- SMCA
- SMCC

Motor Unit

Series		SHIMANO	SHIMANO
Model no.		MU-UR510	MU-UR500
Color	1	Black	Standard
	2	-	-
	3	-	-
Compatible internal geared hub		SG-S7051 SG-C6061 SG-C7050	SG-S705 SG-S7051 SG-C6060 SG-C6061 SG-C7050
Compatible speed		11/8/5 speed	11/8/5-speed
Master unit		-	-
Firmware update by E-TUBE PROJECT		✓	✓
SD50 port (pcs)		0	1
SD300 port (pcs)		1	0
SD50 connector (pcs)		0	0
SD300 connector (pcs)		0	0
Charging port (pcs)		0	0
Note		-	-

ARCHIVE

Electric Wire

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-SD300	EW-SD300-I	EW-SD50	EW-SD50-I
Type	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
Color	1	Black
	2	White
	3	-
Length	Long: 300 mm Short: 50 mm	300 mm
Compatible electric wire	EW-SD50	EW-SD300
Note		

Grommet

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-GM300-S	EW-GM300-M	SM-GM01	SM-GM02
Compatible electric wire	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

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RD

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SW

RD

FD

SMAD

SG

MU

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

EWEC

SMPCE

SMCB

SMCA

SMCC

Wireless Unit

Series		SHIMANO
Model no.		EW-WU111
Wireless system		ANT private* Bluetooth®LE
Master unit		-
Firmware update by E-TUBE PROJECT		✓
SD50 port (pcs)		2
SD300 port (pcs)		0
SD50 connector (pcs)		0
SD300 connector (pcs)		0
Compatible system		Bluetooth®LE corresponding master unit
Function **	Gear position	✓
	Di2 Battery level	✓
	Adjust mode display	✓
	Suspension mode	✓
	Shift mode	✓
Note		* ANT private has compatibility with ANT+ cycle computer but not freely open profile ** Display function depends on the specification of cycle computer

Junction [A]

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-RS910	SM-EW90-A	SM-EW90-B
Type	Built-in type	External type	External type
Position	In side of frame or handle	Under stem	Under stem
Wireless system	-	-	-
Compatible system	E-TUBE	E-TUBE	E-TUBE
Compatible electric wire	EW-SD50	EW-SD50	EW-SD50
Master unit	-	-	-
Firmware update by E-TUBE PROJECT	✓	✓	✓
SD50 port (pcs)	2	3	5
SD300 port (pcs)	0	0	0
SD50 connector (pcs)	0	0	0
SD300 connector (pcs)	0	0	0
Connector for remote sprinter shifter (QTY)	0	0	0
Port for remote sprinter shifter (QTY)	0	0	0
Charging port (pcs)	1	1	1
Function	Gear position	✓	✓
	Di2 Battery level	✓	✓
	Adjust mode display	✓	✓
	E-TUBE connection	✓	✓
Average weight (g)	11	10	13
Note			

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
Type	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
Type	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	SHIMANO
Model no.	BT-DN300	BT-DN110-A	BT-DN110	SM-BTR1
Type	Built-in battery	Built-in battery	Built-in battery	External
Chemistry	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Rated voltage (V)	7.4	7.4	7.4	7.4
Rated capacity (Ah)	0.5	0.5	0.5	0.5
Rated capacity (Wh)	3.7	3.7	3.7	3.7
Compatible charger	RD-R9250, RD-R8150	SM-BCR2	SM-BCR2	SM-BCR1
Master unit	✓	✓	✓	-
Firmware update by E-TUBE PROJECT	✓	✓	✓	-
SD50 port (pcs)	0	1	1	0
SD300 port (pcs)	3	0	0	0
SD50 connector (pcs)	0	0	0	0
SD300 connector (pcs)	0	0	0	0
Average weight (g)	52	50	50	70
Note				

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	✓	✓	✓
Firmware update by E-TUBE PROJECT	✓	✓	✓
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

Series		SHIMANO
Model no.		SM-BTC1
Specification	w/ Junction	✓ *
	w/o Junction	✓
Mount		Bolt on bottle cage mounting thread
Junction	SD50 port (pcs)	6 *
	SD300 port (pcs)	0
	SD50 connector (pcs)	0
	SD300 connector (pcs)	0
	Compatible battery	BT-DN110 BT-DN110-A
	Compatible electric wire	EW-SD50
	Battery charging port	-
Note		* 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	

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	Type C
Typical example country/region	Thailand
Rated power input (V)	250
Cable length (m)	1
Note	

Charging Cable

Series	SHIMANO
Model no.	EW-EC300
USB connector	Type-A
Cable length (m)	1.5
Note	

SW

RD

FD

SMAD

SC

SL

RD

FD

ST

ST

SW

RD

FD

SMAD

SG

MU

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

EWEC

SMPCE

SMCB

SMCA

SMCC

PC Linkage Device

Series	SHIMANO
Model no.	SM-PCE02
USB port (pcs)	Micro-B: 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	

Cord Band

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		EW-CB300-S	EW-CB300-M	EW-CB300-L
Specification		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
Color	1	Black	Black	Black
	2	-	-	-
Note				

Cord Clip

Series		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
	2	-	-
Note			

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Cycle Computer

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	SC-EM800	SC-E8000	SC-E7000	SC-E6100	SC-E5000	SC-E5003
Color	1	Standard	Standard	Standard	Standard	Black
	2	-	-	-	-	-
	3	-	-	-	-	-
Mount position	Center on handlebar	-	-	-	✓	-
	Right on handlebar	✓	✓	✓	-	-
	Others	✓	-	-	-	* ✓
Master unit	-	-	-	-	-	* ✓
Wireless system	ANT private Bluetooth®LE	ANT private Bluetooth®LE	ANT private Bluetooth®LE	ANT private Bluetooth®LE	-	-
Firmware update by E-TUBE PROJECT	✓	✓	✓	✓	✓	✓
SD50 port (pcs)	0	4	4	3	1	0
SD300 port (pcs)	4	0	0	0	0	1
SD50 connector (pcs)	0	0	0	0	0	0
SD300 connector (pcs)	0	0	0	0	0	0
Back light	✓	✓	✓	✓	✓	✓
LCD size (inch)	1.6	1.6	1.39	2.7	1.4	1.4
Beep	✓	✓	✓	✓	-	-
Display detachable	-	-	-	✓	-	-
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 up/down button	-	-	-	-	✓	✓
Auto start & auto stop	-	-	-	-	-	-
Contents of display	Clock	✓	✓	✓	✓	-
	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	✓	-	-	-	✓
	Trip time	✓	** ✓	** ✓	** ✓	-
	Odometer	✓	✓	✓	✓	✓
	Estimated range	✓	✓	✓	✓	✓
	Range overview	✓	-	-	✓	-
	Assist power indicator	✓	✓	✓	✓	-
	Error message	✓	✓	✓	✓	✓
	Cadence (rpm)	✓	✓	** ✓	** ✓	-
	Human output power	-	-	-	-	-
	Calorie	-	-	-	-	-
	Shifting advice	-	-	-	✓	-
	Maintenance alert	✓	-	✓	✓	*** ✓
	Bluetooth®LE connection status	✓	-	✓	✓	-
Assist profile	-	-	-	-	-	
Setting menu	Trip distance reset	✓	✓	✓	✓	✓
	Odometer reset	✓	-	-	-	-
	Setting clear	✓	-	-	✓	-
	Clock adjustment	✓	-	-	✓	-
	Start mode	-	-	-	✓	*** -
	Shifting advise	-	-	-	✓	-
	Back light on/off	✓	-	-	✓	*** -
	Light on/off	** ✓	✓	✓	-	*** -
	Back light brightness	✓	✓	-	✓	-
	Beep on/off	✓	✓	✓	✓	-
	Unit (km/mile)	✓	✓	✓	✓	** ✓
	Font color	-	-	✓	✓	-
	Adjusting for shift	* ✓	* ✓	* ✓	* ✓	*** -
	Adjusting for auto shift timing	-	-	* ✓	* ✓	*** -
	RD protection reset	* ✓	* ✓	* ✓	* ✓	-
	Bluetooth®LE pairing	✓	✓	✓	✓	-
	Bluetooth®LE/ANT connection status	-	✓	-	-	-
Assist customize	✓	-	-	-	-	
Assist profile select	✓	-	-	-	-	
Language	English	✓	✓	✓	✓	✓
	German	✓	✓	✓	✓	-
	Dutch	✓	✓	✓	✓	-
	French	✓	✓	✓	✓	-
	Spanish	✓	✓	✓	✓	-
	Italian	✓	✓	✓	✓	-
Average weight (g)	41	41	32	110		
Note	2 spec of clamp band diameter 31.8 and 35.0 mm. * In case of Di2 ** In combination with assist mode switch	2 Spec of clamp band diameter: 31.8 and ø35.0 * In case of SEIS ** Option by E-TUBE PROJECT	* In case of SEIS ** Option by E-TUBE PROJECT	* In case of SEIS ** Option by E-TUBE PROJECT	* Left on handlebar (normal specification and I-SPEC EV specification) ** Setting by E-TUBE PROJECT *** Drive unit setting by E-TUBE PROJECT	* Left on handlebar (normal specification and I-SPEC EV specification) ** Setting by E-TUBE PROJECT *** Drive unit setting by E-TUBE PROJECT

Cycle Computer

Series		SHIMANO	
Model no.		EW-EN100	
Color	1	Standard	
	2	-	
	3	-	
Mount position	Center on handlebar	-	
	Right on handlebar	-	
	Others	✓	
Master unit		-	
Wireless system		ANT private Bluetooth®LE	
Firmware update by E-TUBE PROJECT		✓	
SD50 port (pcs)		2	
SD300 port (pcs)		0	
SD50 connector (pcs)		0	
SD300 connector (pcs)		0	
Back light		-	
LCD size (inch)		-	
Beep		-	
Display detachable		-	
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 up/down button		-	
Auto start & auto stop		-	
Contents of display	Clock	-	
	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	-	
	Trip time	-	
	Odometer	-	
	Estimated range	-	
	Range overview	-	
	Assist power indicator	-	
	Error message	✓	
	Cadence (rpm)	-	
	Human output power	-	
	Calorie	-	
	Shifting advice	-	
	Maintenance alert	-	
	Bluetooth®LE connection status	-	
	Assist profile	-	
	Setting menu	Trip distance reset	-
		Odometer reset	-
		Setting clear	-
		Clock adjustment	-
Start mode		-	
Shifting advise		-	
Back light on/off		-	
Light on/off		-	
Back light brightness		-	
Beep on/off		-	
Unit (km/mile)		-	
Font color		-	
Adjusting for shift		* ✓	
Adjusting for auto shift timing		-	
RD protection reset		* ✓	
Bluetooth®LE pairing		✓	
Bluetooth®LE/ANT connection status		-	
Assist customize		-	
Assist profile select	-		
Language	English	-	
	German	-	
	Dutch	-	
	French	-	
	Spanish	-	
	Italian	-	
Average weight (g)		6	
Note		* Set by switch operation in case of SEIS	

SC

SW

DU

SMDU

SMDU

RT

FC

SMCR

SMCD

BT

BM

EWSW

EWCP

EC

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	Black	Standard	Black	Black	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Usage		For assist	For assist	For assist	For SEIS shift	For assist	For SEIS shift
Right SW		-	-	-	✓	-	✓
Left SW		✓	✓	✓	-	✓	-
Button numbers (pcs)		2	2	2	2	3	3
Master unit		-	-	-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
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 mode change		✓	✓	✓	-	✓	-
Display change		-	-	-	-	✓	✓
Automatic/manual change		-	-	-	✓	✓	✓
Light On-Off		-	-	-	-	*-	-
Multiple input	2 step	-	-	-	-	-	-
	Hold	* ✓	✓	✓	✓	-	** ✓
LED	Battery level	-	-	-	-	-	-
	Assist status	-	-	-	-	-	-
Wireless function	Bluetooth LE custom (*1)	Dj2 data items	-	-	-	-	-
		SHIMANO STEPS data items	-	-	-	-	-
	ANT private (*2)	Dj2 data items	-	-	-	-	-
		SHIMANO STEPS data items	-	-	-	-	-
Average weight (g)		24.5	93.2	** 23.9	** 23.9	31.3	31.3
<p>Note</p> <p>*1 Bluetooth LE custom has compatibility with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile.</p> <p>*2 ANT private has compatibility with ANT+ cycle computer but not freely open profile.</p>		* Set by E-TUBE PROJECT			* Available for rear derailleur ** Cable length 700 mm spec. Cable length: 400 mm, 300 mm, 700 mm	* By Setting Menu	** Available for rear derailleur

Switch Unit

Series		SHIMANO	
Model no.		SW-E6000	
Switch type		-	
Color	1	Standard	
	2	-	
	3	-	
Usage		* For assist or SEIS shift	
Right SW		✓	
Left SW		✓	
Button numbers (pcs)		3	
Master unit		-	
Firmware update by E-TUBE PROJECT		✓	
SD50 port (pcs)		0	
SD300 port (pcs)		0	
SD50 connector (pcs)		1	
SD300 connector (pcs)		0	
System On-Off		-	
Assist mode change		✓	
Display change		* ✓	
Automatic/manual change		* ✓	
Light On-Off		* ✓	
Multiple input	2 step	-	
	Hold	-	
LED	Battery level	-	
	Assist status	-	
Wireless function	Bluetooth LE custom (*1)	Dj2 data items	-
		SHIMANO STEPS data items	-
	ANT private (*2)	Dj2 data items	-
		SHIMANO STEPS data items	-
Average weight (g)		25.5	
<p>Note</p> <p>*1 Bluetooth LE custom has compatibility with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile.</p> <p>*2 ANT private has compatibility with ANT+ cycle computer but not freely open profile.</p>		* Set by E-TUBE PROJECT	

SC

SW

DU

SMDU

SMDU

RT

FC

SMCR

SMCD

BT

BM

EWSW

EWCP

EC

EWEX

SMDU

Drive Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-EP800	DU-EP800-CRG	DU-E8000	DU-E8080	DU-E7000	DU-E6100
Color	1	Standard	Standard	Black	Black	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Compatible brake type		Disc brake	Disc brake	Disc brake, V-BRAKE	Disc brake	Disc brake, V-BRAKE	V-BRAKE, Roller brake, Disc brake
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position		Mid ship	Mid ship	Mid ship	Mid ship	Mid ship	Mid ship
Compatible wheel size (mm)		1,300 - 3,000	1,150 - 3,000	*1,300 - 3,000	*1,300 - 3,000	1,300 - 3,000	1,300 - 3,000
Continuous rated power (Watt)		250	250	250	250	250	250
Maximum torque (Nm)		85	85	70	70	60	60
Rated voltage		36 V DC	36 V DC	36 V DC	36 V DC	36 V DC	36 V DC
Di2 compatible	Internal geared hub	✓	✓	-	-	-	-
	Rear derailleur	✓	✓	*✓	*✓	✓	✓
Maximum support bike speed	24 km/h	-	-	-	✓	*✓	*✓
	25 km/h	**✓	**✓	*✓	-	*✓	*✓
	20 mph	**✓	**✓	*✓	-	*✓	*✓
	28 mph	-	-	-	-	-	-
	Other	-	-	-	-	-	-
	Adjustment	*✓	-	-	-	*✓	*✓
Riding characteristics	Dynamic	-	-	*✓	-	*✓	-
	Explorer	-	-	*✓	-	*✓	-
	Customize	-	-	*✓	-	*✓	-
	Sportive/Light off-road	-	-	-	-	-	*✓
	Comfort	-	-	-	✓	-	*✓
	Profile 1	✓	✓	-	-	-	-
Assist mode	Profile 2	✓	✓	-	-	-	-
	BOOST	✓	✓	✓	-	✓	-
	HIGH	-	-	-	✓	-	✓
	TRAIL	✓	✓	✓	-	✓	-
	NORMAL	-	-	-	✓	-	✓
	ECO	✓	✓	-	✓	✓	✓
Power supply for front light		12 V DC	12 V DC	6 V DC	6 V DC	12 V DC	12 V DC
Power supply for rear light		12 V DC	12 V DC	6 V DC	6 V DC	12 V DC	12 V DC
Maximum current supply front and rear light total (A)		2.0	2.0	2	2	2	2
Power supply port for electric devices		-	-	-	-	-	-
Safe way home function		✓	✓	✓	✓	✓	✓
Communication		E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE
Master unit		✓	✓	✓	✓	✓	✓
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
SD50 port (pcs)		0	0	2	2	2	2
SD300 port (pcs)		2	2	0	0	0	0
SD50 connector (pcs)		0	0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0	0
Terminal for light (pcs)		1	1	1	1	1	1
Port for electric devices (pcs)		-	-	-	-	-	-
Port for Speed Sensor (pcs)	SD50 type	0	0	1	1	1	1
	SD300 type	1	1	0	0	0	0
Chain case compatible		-	-	-	-	-	✓
Chain device compatible		✓	✓	✓	✓	✓	-
Torque sensor		✓	✓	✓	✓	✓	✓
Crank arm position sensor		✓	✓	✓	✓	✓	✓
Bike speed sensor		**✓	**✓	**✓	**✓	**✓	**✓
Cadence sensor		✓	✓	✓	✓	✓	✓
Walk assist function	On/Off	**✓	**✓	✓	-	*✓	*✓
	Standard	-	-	✓	-	-	-
	Intelligent	*✓	*✓	**✓	-	**✓	**✓
	Quick	✓	✓	✓	-	✓	✓
Automatic shift	Internal geared hub 11-speed	-	-	-	-	-	-
	Internal geared hub 8-speed	*✓	*✓	-	-	-	✓
	Internal geared hub 7-speed	-	-	-	-	-	-
	Internal geared hub 5-speed (INTER-5E)	*✓	*✓	-	-	-	✓
	Rear derailleur	-	-	-	-	-	-
SYMPHOMATIC	Internal geared hub	*✓	*✓	-	-	-	✓
	Rear derailleur	-	-	-	-	-	-
Electronic shift by drive unit control		-	-	-	-	-	-
Compatible spindle type		24mm 2pinch bolt narrow	24mm 2pinch bolt narrow	24mm 2pinch bolt narrow	24mm 2pinch bolt narrow	24mm 2pinch bolt narrow	24mm 2pinch bolt narrow
Drive unit fixing screw (pcs)		6	6	-	-	-	-
Average weight (kg)		2.6	2.6	2.88	2.89	2.79	2.76
Note		* In case of Di2 ** Set by E-TUBE PROJECT *** By using EW-SS300 EW-SS301	* In case of Di2 ** Set by E-TUBE PROJECT *** By using EW-SS300 EW-SS301	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** By using RD-M9050/RD-M8050	* Set by E-TUBE PROJECT ** By using SM-DUE11	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** By using RD-M9050/RD-M8050	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** Only in combination with Di2

Drive Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-E6100-CRG	DU-E6110	DU-E6180	DU-E5000	DU-E5080	DU-E5080-H
Color	1	Standard	Standard	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Compatible brake type		Disc brake	Coaster brake	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
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position		Mid ship	Mid ship	Mid ship	Mid ship	Mid ship	Mid ship
Compatible wheel size (mm)		1,150 - 3,000	1,300 - 3,000	1,300 - 3,000	1,300 - 3,000	1,300 - 3,000	1,300 - 3,000
Continuous rated power (Watt)		250	250	250	250	250	250
Maximum torque (Nm)		60	60	60	40	40	40
Rated voltage		36 V DC	36 V DC	36 V DC	36 V DC	36 V DC	36 V DC
Di2 compatible	Internal geared hub	✓	✓	✓	✓	✓	✓
	Rear derailleur	✓	-	-	✓	✓	✓
Maximum support bike speed	24 km/h	-	-	✓	-	✓	✓
	25 km/h	**✓	*✓	-	*✓	-	-
	20 mph	**✓	*✓	-	*✓	-	-
	28 mph	-	-	-	-	-	-
	Other	-	-	-	-	-	-
Adjustment		**✓	*✓	*✓	*✓	*✓	*✓
Riding characteristics	Dynamic	-	-	-	-	-	-
	Explorer	-	-	-	-	-	-
	Customize	-	-	-	-	-	-
	Sportive/Light off-road	**✓	*✓	*✓	*✓	-	✓
	Comfort	**✓	*✓	*✓	✓	✓	-
	Profile 1	-	-	-	-	-	-
Assist mode	Profile 2	-	-	-	-	-	-
	BOOST	-	-	-	-	-	-
	HIGH	✓	✓	✓	✓	✓	✓
	TRAIL	-	-	-	-	-	-
	NORMAL	✓	✓	✓	✓	✓	✓
ECO		✓	✓	✓	✓	✓	✓
Power supply for front light		12 V DC	12 V DC	12 V DC	12 V DC	12 V DC	12 V DC
Power supply for rear light		12 V DC	12 V DC	12 V DC	12 V DC	12 V DC	12 V DC
Maximum current supply front and rear light total (A)		2	2	2	2	2	2
Power supply port for electric devices		-	-	-	-	-	-
Safe way home function		✓	✓	✓	✓	✓	✓
Communication		E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE
Master unit		✓	✓	✓	✓	✓	✓
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
SD50 port (pcs)		2	2	2	1	1	1
SD300 port (pcs)		0	0	0	0	0	0
SD50 connector (pcs)		0	0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0	0
Terminal for light (pcs)		1	1	1	1	1	1
Port for electric devices (pcs)		-	-	-	-	-	-
Port for Speed Sensor (pcs)	SD50 type	1	1	1	1	1	1
	SD300 type	0	0	0	0	0	0
Chain case compatible		✓	✓	✓	✓	✓	✓
Chain device compatible		-	-	-	-	-	-
Torque sensor		✓	✓	✓	✓	✓	✓
Crank arm position sensor		✓	✓	✓	-	-	-
Bike speed sensor		**✓	**✓	**✓	**✓	**✓	**✓
Cadence sensor		✓	✓	✓	-	-	-
Walk assist function	On/Off	**✓	*✓	-	*✓	-	-
	Standard	-	-	-	-	-	-
	Intelligent	✓	**✓	-	**✓	-	-
Automatic shift	Quick	✓	✓	-	✓	-	-
	Internal geared hub 11-speed	-	-	-	-	-	-
	Internal geared hub 8-speed	✓	✓	✓	✓	✓	✓
	Internal geared hub 7-speed	-	-	-	-	-	-
	Internal geared hub 5-speed (INTER-5E)	✓	✓	✓	✓	✓	✓
SYMPHOMATIC	Rear derailleur	-	-	-	-	-	-
	Internal geared hub	✓	✓	✓	✓	✓	✓
Electronic shift by drive unit control		-	-	-	✓	✓	✓
Compatible spindle type		24mm 2pinch bolt narrow	24mm 2pinch bolt narrow	24mm 2pinch bolt narrow	Square	Square	Square
Drive unit fixing screw (pcs)		-	-	-	-	-	-
Average weight (kg)		2.76	2.7	2.81	2.38	2.38	2.38
Note		* In case of Di2 **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	* 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	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11

SC

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SMDU

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SMDU

Drive Unit Cover

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DC-EP800-A	DC-EP800-B	DC-EP800-G	SM-DUE80-A	SM-DUE80-B	SM-DUE70-A
Color	1	Standard	Standard	Standard	Gray	Gray	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Cover	Right	-	-	-	✓	✓	✓
	Left	✓	✓	-	✓	✓	✓
	Bottom	-	-	✓	-	-	-
	Front	-	-	-	-	-	-
	Connector	-	-	-	-	-	-
Available drive unit angle (deg.)		0 - 60	0 - 60	0 - 60	0 - 60	0 - 60	0 - 60
Note		-	-	-	Standard cover	Mount bolt cover	-

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-DUE70-B	SM-DUE70-C	SM-DUE61-T	SM-DUE61-TCRG	SM-DUE61-TC	SM-DUE61-C
Color	1	Standard	Standard	Standard	Standard	Standard	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Cover	Right	✓	-	✓	✓	✓	✓
	Left	✓	✓	✓	✓	✓	✓
	Bottom	-	-	-	-	-	-
	Front	-	-	-	-	-	-
	Connector	-	-	-	-	-	-
Available drive unit angle (deg.)		0 - 60	0 - 60	0 - 60	0 - 60	0 - 60	0 - 60
Note		-	-	-	CARGO logo for DU-E6100-CRG	-	-

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-DUE61-CCRG	SM-DUE61-CC	SM-DUE60	SM-DUE60-45	SM-DUE60-A	SM-DUE60-45A
Color	1	Standard	Black	Gray	Gray	Gray	Gray
	2	-	-	Black	Black	Black	Black
	3	-	-	-	-	-	-
Cover	Right	✓	✓	✓	✓	✓	✓
	Left	✓	✓	-	-	-	-
	Bottom	-	-	-	-	-	-
	Front	-	-	-	-	-	-
	Connector	-	-	-	-	-	-
Available drive unit angle (deg.)		0 - 60	0 - 60	0	45	0	45
Note		CARGO logo for DU-E6100-CRG	-	-	-	For internal cable routing	For internal cable routing

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-DUE50-T	SM-DUE50-TC	SM-DUE50-C	SM-DUE50-CC
Color	1	Standard	Standard	Black	Black
	2	-	-	-	-
	3	-	-	-	-
Cover	Right	✓	-	✓	-
	Left	✓	✓	✓	✓
	Bottom	-	-	-	-
	Front	-	-	-	-
	Connector	-	-	-	-
Available drive unit angle (deg.)		0 - 60	0 - 60	0 - 60	0 - 60
Note		-	-	-	-

Speed Sensor Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EW-SS302	EW-SS301	EW-SS300	SM-DUE11	SM-DUE10
Brake spec	Disc	✓	✓	✓	✓	✓
	Rim	-	-	✓	-	✓
Color	1	Black	Black	Black	Black	Black
	2	-	-	-	-	-
	3	-	-	-	-	-
Magnet type	Spoke fixing type	-	-	✓	-	✓
	Magnet integrated rotor	-	✓	-	✓	-
	Magnet integrated lock ring	✓	-	-	-	-
	Magnet bracket for 6 bolt rotor	-	-	-	-	-
SD50 connector (pcs)		0	0	0	1	1
SD300 connector (pcs)		1	1	1	0	0
Cable length (mm)	340	-	-	✓	-	✓
	540	-	-	✓	-	✓
	760	✓	✓	✓	✓	✓
	1400	✓	✓	✓	-	✓
Note		w/o Magnet set	w/o Magnet set	Spoke magnet set included	w/o Magnet set	Spoke magnet set included

Disc Brake Rotor

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		RT-EM910	RT-EM810	RT-EM600	RT-EM300
CENTER LOCK		✓	✓	✓	✓
6-bolt (P.C.D. 44 mm)		-	-	-	-
ICE TECHNOLOGIES		✓	✓	-	-
ICE TECHNOLOGIES FREEZA		✓	✓	-	-
Outside diameter (mm)	203	✓*	✓*	✓*	✓*
	180	✓*	✓*	✓*	✓*
	160	✓*	✓*	✓*	✓*
	140	-	-	-	-
Alloy lock ring		✓	✓	-	-
Adapter	Material	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted
Rotor	Material	Stainless steel + Aluminum + Stainless steel	Stainless steel + Aluminum + Stainless steel	Stainless steel	Stainless steel
	Finish	Polished	Polished	Polished	Polished
Pad material compatibility	Metal	✓	✓	✓	-
	Resin	✓	✓	✓	✓
Lock ring	Internal type	Material	Aluminum	Aluminum	Steel
		Finish	Anodized	Anodized	Plated
	External type	Material	Aluminum	Aluminum	Steel
		Finish	Anodized	Anodized	Plated
Internal/external type	Material	-	-	-	Steel
	Finish	-	-	-	Painted
Average weight (g) (w/o lock ring)		154 (203 mm) 140 (180 mm) 113 (160 mm)	166 (203 mm) 140 (180 mm) 113 (160 mm)	-	-
Note		* 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

Crank Arm

Series		SHIMANO	DEORE XT	SHIMANO	DEORE XT	SHIMANO	SHIMANO
Model no.		FC-EM900	FC-M8150	FC-EM600	FC-M8050	FC-E8050	FC-E8000
Color	1	Black	Series Color	Black	Series color	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Crank arm type	HOLLOWTECH	✓	✓	-	✓	✓	-
	Solid	-	-	✓	-	-	✓
Q factor (mm)		177 (DU-EP800)	177 (DU-EP800)	177 (DU-EP800)	177 180 *	177 180 *	177 180 *
Chain case compatible		-	-	-	✓ *	✓ *	✓ *
Crank arm length (mm)	175	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	165	✓	✓	✓	✓	-	✓
	160	✓	✓	✓	-	-	✓
	Others	-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
BB Type		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 weight (g)		-	-	-	-	-	-
Note		-	-	-	* In case with DU-E6100/E6110/E6180/E7000	* In case with DU-E6100/E6110/E6180/E7000	* In case with DU-E6100/E6110/E6180/E7000

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-E6100	FC-E6010	FC-E5000	FC-E5010
Color	1	Silver	Black	Silver	Standard
	2	Black	Gray	-	-
	3	-	-	-	-
Crank arm type	HOLLOWTECH	-	-	-	-
	Solid	✓	✓	✓	✓
Q factor (mm)		180	213	185	185
Chain case compatible		✓	✓	✓	✓
Crank arm length (mm)	175	✓	✓	✓	✓
	172.5	-	-	-	-
	170	✓	✓	✓	✓
	165	-	-	✓	✓
	160	-	-	-	-
	Others	-	-	-	-
Crank arm	Material	Aluminium	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted
BB Type		24 mm axle serration	Square type	Square type	Square type
Average weight (g)		-	-	-	-
Note		-	-	-	-

Chainring Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-CRE80-12-B	SM-CRE80-12-SB	SM-CRE80-B	SM-CRE80-R	SM-CRE80	SM-CRE70-12-B
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Gear speed		1	1	1	1	1	1
Rear speed	12-speed	✓	✓	-	-	-	✓
	11-speed	-	-	*✓	*✓	*✓	-
	10-speed	-	-	*✓	*✓	*✓	-
	9-speed	-	-	-	-	-	-
	8-speed	-	-	-	-	-	-
	7-speed	-	-	-	-	-	-
	5-speed	-	-	-	-	-	-
Single		-	-	-	-	-	-
DYNAMIC CHAIN ENGAGEMENT+		✓	✓	✓	-	✓ (38T, 34T)	-
Chainring teeth	Combination	-	-	-	-	-	-
	47T	-	-	-	✓	-	-
	44T	-	-	-	-	✓	-
	42T	-	-	-	-	-	-
	40T	-	-	-	-	-	-
	38T	✓	-	✓	-	✓	-
	36T	✓	✓	-	-	-	✓
	34T	✓	✓	✓	-	✓	-
Others	-	-	-	-	-	-	
Chain guard type	Double	-	-	-	-	**✓	-
	Single	-	-	-	-	-	-
	w/o chain guard	✓	✓	✓	✓	✓	✓
Chainring fixing lock nut		Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit
Arm cover outer diameter (mm)		-	-	-	-	-	-
Chain device compatible		✓	✓	✓	SM-CDE80 (Frame mount)	✓	✓
Chain case compatible		-	-	-	-	-	-
Chain line (mm)	56.5	-	✓	-	-	-	-
	53	✓	-	✓	-	-	✓
	50	-	-	-	✓	✓	-
	49.7	-	-	-	-	-	-
	47	-	-	-	-	-	-
Belt line (mm)	46.5	-	-	-	-	-	-
	46	-	-	-	-	-	-
Belt line (mm)	43	-	-	-	-	-	-
	43	-	-	-	-	-	-
P.C.D. (mm)		104	104	104	104	104	104
Chainring	Material	Steel	Steel	Steel	Aluminum	Steel	Steel
	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
	Finish	SP Black	SP Black	SP Black	SP Black	SP Black	SP Black
Spider/gear arms		4	4	4	4	4	4
Average weight (g)		-	-	-	-	-	-
Note		Compatible chain CN-M9100 CN-M8100 CN-M7100 CN-M6100	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	* E-BIKE rear derailleur system compatible chain ** 44T only	Compatible chain CN-M9100 CN-M8100 CN-M7100 CN-M6100

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Chainring Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-CRE70-12	SM-CRE70-B	SM-CRE70	SM-CRE61	SM-CRE50
Color	1	Black	Black	Black	Dark Gray	Dark Gray
	2	-	-	-	Silver (w/o CG only) *	-
	3	-	-	-	Black (w/o CG only) *	-
Gear speed		1	1	1	1	1
Rear speed	12-speed	✓	-	-	-	-
	11-speed	-	✓	✓	✓	✓
	10-speed	-	✓	✓	✓	✓
	9-speed	-	✓	✓	✓	✓
	8-speed	-	-	-	-	-
	7-speed	-	-	-	-	-
	5-speed	-	-	-	-	-
Single	-	-	-	✓	✓	
DYNAMIC CHAIN ENGAGEMENT+		-	-	-	-	-
Chainring teeth	Combination	-	-	-	-	-
	47T	-	-	-	-	-
	44T	-	-	-	✓	✓
	42T	✓	-	-	-	-
	40T	-	-	-	-	-
	38T	-	-	✓	✓	✓
	36T	-	-	-	-	-
	34T	-	✓	-	-	-
Others	-	-	-	-	-	
Chain guard type	Double	✓	-	✓	✓	✓
	Single	-	-	-	✓	✓
	w/o chain guard	-	✓	✓	✓	✓
Chainring fixing 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 diameter (mm)		-	-	-	95 (w/o CG only)	95 (w/o CG only)
Chain device compatible		-	✓	✓	-	-
Chain case compatible		-	-	-	✓	✓
Chain line (mm)	56.5	-	-	-	-	-
	53	-	✓	-	-	-
	50	✓	-	✓	-	-
	49.7	-	-	-	-	-
	47	-	-	-	-	-
Belt line (mm)	46.5	-	-	-	✓	✓
	46	-	-	-	-	-
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	-	-
	Finish	Painted	Painted	Anodized	-	-
Chainring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	SP Black	SP Black	SP Black	-	-
Spider/gear arms		4	4	4	4	4
Average weight (g)		-	-	-	-	-
Note		Compatible chain CN-M9100 CN-M8100 CN-M7100 CN-M6100	Compatible chain CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11 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 plate	* Color of arm cover	-

Chain Device

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CD-EM800	SM-CDE80	SM-CDE70
Color	1	Standard	Standard	Standard
	2	-	-	-
	3	-	-	-
Chain line (mm)	56.5	✓	-	-
	53	✓	✓ (w/ Plate type) ✓ (w/o Plate type)	✓
	50	-	- (w/ Plate type) ✓ (w/o Plate type)	-
Chain compatibility	12-speed	✓	✓	✓
	11-speed	✓	✓	✓
	10-speed	-	✓	✓
	9-speed	-	-	✓
Top gear teeth	38T	*✓	✓	✓
	36T	✓	✓	✓
	34T	✓	✓	✓
Assumed rear sprocket teeth	10-45T	✓	✓	✓
	10-51T	✓	✓	✓
	11-36T	-	✓	✓
	11-40T	-	✓	✓
	11-42T	-	✓	✓
	11-46T	-	✓	✓
	Others	-	-	-
Direct mount to drive unit		✓	✓ (w/ Plate type) - (w/o Plate type)	✓
Compatible 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 stroke (mm)		0 - 170	0 - 170	0 - 170
Back plate	Material	Aluminum	Aluminum (w/ Plate type) - (w/o Plate type)	Steel
	Finish	Anodized	Anodized (w/ Plate type) - (w/o Plate type)	Painted
Chain guide	Material	Resin	Resin	Resin
	Finish	-	-	-
Note		w/ plate * Chain line 53 mm only	w/ Plate, w/o Plate type are available	w/ plate

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Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-E8010	BT-E8014	BT-E8016	BT-E8020	BT-E8035	BT-E8035-L
Color	1	Black	Standard	Standard	Black	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Down tube	Down tube	External	Integrated	Integrated	Integrated
Rated voltage (V)		36	36	36	36	36	36
Rated capacity (Ah)		* 14	* 11.6	* 17.5	14	* 14	* 14
Rated capacity (Wh)		* 504	* 418	* 630	504	* 504	* 504
Cyclelife span for 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%)
Time to charge (hour)	SOC = 100%	** 4 (***) 4.5)	** 3.0 (***) 3.5)	** 4.8 (***) 5.7)	* 4 (** 4.5)	** 4 (***) 4.5)	** 4 (***) 4.5)
	SOC = 80%	** 2.5 (***) 3.2)	** 2.0 (***) 2.5)	** 3.2 (***) 4)	* 2.5 (** 3.2)	** 2.5 (***) 3.2)	** 2.5 (***) 3.2)
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		✓	✓	✓	✓	** -	** -
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery 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
Compatible charger		EC-E6002 EC-E8004	EC-E6002 EC-E8004	EC-E6002 EC-E8004	EC-E6002 EC-E8004	EC-E6002 EC-E8004	EC-E6002 EC-E8004
Compatible adaptor for charge		-	-	-	-	SM-BTE80	SM-BTE80
Average weight (kg)		2.6	2.55	3.2	3.05	2.9	3.15
Note		* BT-E8010 for Japan (13 Ah, 468 Wh) ** By EC-E8004 (***) In case of 100 V AC	* BT-E8014 for Japan (10.9 Ah, 393 Wh) ** By EC-E8004 (***) In case of 100 V AC	* BT-E8016 for Japan (16.2 Ah, 583 Wh) ** By EC-E8004 (***) In case of 100 V AC	* By EC-E8004 (** In case of 100 V AC)	* BT-E8035 for Japan (13 Ah, 468 Wh) ** By EC-E8004 (***) In case of 100 V AC **** with SM-BTE80 or EW-CP100	* BT-E8035-L for Japan (13 Ah, 468 Wh) ** By EC-E8004 (***) In case of 100 V AC **** with SM-BTE80 or EW-CP100

ARC

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-E8036	BT-E6000	BT-E6001	BT-E6010
Color	1	Standard	Black	Black	* Black
	2	-	Gray	Gray	Gray
	3	-	-	-	-
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Integrated	Rear carrier	Rear carrier	Down tube
Rated voltage (V)		36	36	36	36
Rated capacity (Ah)		* 17.5	11.6	14	* 11.6
Rated capacity (Wh)		* 630	418	504	* 418
Cyclelife span for charge (times)		1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
Time to charge (hour)	SOC = 100%	** 4.8 (***) 5.7)	* 3.0 (** 3.5)	* 4 (** 4.5)	** 3.0 (***) 3.5)
	SOC = 80%	** 3.2 (***) 4)	* 2.0 (** 2.5)	* 2.5 (** 3.2)	** 2.0 (***) 2.5)
Charge level display		✓	✓	✓	✓
Error signal		✓	✓	✓	✓
Charging port		** -	-	-	-
System on/off switch		✓	✓	✓	✓
Compatible battery mount		BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BM-E6000	BM-E6000	BM-E6010
Compatible charger		EC-E6002 EC-E8004	EC-E6002 EC-E8004	EC-E6002 EC-E8004	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		* BT-E8036 for Japan (16.2 Ah, 583 Wh) ** By EC-E8004 (***) In case of 100 V AC **** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)	* BT-E6010 for Japan (10.9 Ah, 393 Wh, Black only) ** By EC-E8004 (***) In case of 100 V AC)

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Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BM-E8016	BM-E8020	BM-E8030-A	BM-E8030-B	BM-E8031-A	BM-E8031-B
Color	1	Black	Black	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Position		Down tube/ Seat tube	Integrated	Integrated	Integrated	Integrated	Integrated
Charging port		-	-	-	-	-	-
Lock system		✓	-	-	-	-	-
Key hole		-	✓	✓	✓	-	-
System on/off switch		-	-	-	-	-	-
Power cable		✓	✓	✓	✓	✓	✓
Power cable length (mm)	75	-	-	-	-	-	-
	250	✓	✓	✓	✓	✓	✓
	300	✓	-	-	-	-	-
	400	-	✓	✓	✓	✓	✓
	600	✓	-	-	-	-	-
	900	-	-	-	-	-	-
	920	-	-	-	-	-	-
	1000	-	-	-	-	-	-
1020	-	-	-	-	-	-	
Connect to EW-CP100		-	-	✓	-	✓	-
Cable length to EW-CP100 (mm)		-	-	200	-	200	-
Compatible 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
Compatible 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 weight (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)
Note		-	-	* Without key unit	* Without key unit	-	-

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		BM-E6000-A	BM-E6000-B	BM-E6010
Color	1	Black	Black	Black
	2	Gray	Gray	-
	3	-	-	-
Position		Rear carrier	Rear carrier	Down tube
Charging port		✓	✓	✓
Lock system		-	-	-
Key hole		✓	✓	✓
System on/off switch		-	-	-
Power cable		✓	✓	✓
Power cable length (mm)	75	-	-	-
	250	-	-	✓
	300	-	-	✓
	400	-	-	-
	600	-	-	✓
	900	-	-	-
	920	✓	✓	-
	1000	-	-	-
1020	✓	✓	-	
Connect to EW-CP100		-	-	-
Cable length to EW-CP100 (mm)		-	-	-
Compatible battery		BT-E6000 BT-E6001	BT-E6000 BT-E6001	BT-E6010
Compatible tool		-	-	TL-BME01
Average weight (kg)		-	-	-
Note		-	-	-

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	✓	✓
Cable length (mm)	1100	1100
Average weight (g)	23	25
Note		

Satellite Charging Port

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

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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
Color	1	Standard	Standard	Standard	Standard	Standard	Standard
	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-E8020 BT-E8035 BT-E8035-L BT-E8036	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-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
Compatible 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 - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz
Output		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 standard		✓	-	-	-	✓	-
UL standard		-	✓	-	-	-	-
Korea standard		-	-	-	-	-	✓
Japan standard		-	-	✓	-	-	-
Charging time for 630 Wh (583 Wh in Japan) battery	Full charge (hour)	4.8 (* 5.7)	5.7	5.7	4.8 (* 5.7)	4.8 (* 5.7)	4.8 (* 5.7)
	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 Japan) battery	Full charge (hour)	4 (* 4.5)	4.5	4.5	4 (* 4.5)	4 (* 4.5)	4 (* 4.5)
	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 Japan) battery	Full charge (hour)	3.0 (* 3.5)	3.5	3.5	3.0 (* 3.5)	3.0 (* 3.5)	3.0 (* 3.5)
	80% charge (hour)	2.0 (* 2.5)	2.5	2.5	2.0 (* 2.5)	2.0 (* 2.5)	2.0 (* 2.5)
Charging level display		-	-	-	-	-	-
Plug in charging type		✓	✓	✓	✓	✓	✓
Charging temperature		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		✓	✓	✓	✓	✓	✓
Adapter for battery connector		** -	* -	* -	** -	** -	** -
Compatible AC power cable		-	-	-	-	-	-
Built in AC cable		✓	✓	✓	✓	✓	✓
Built in AC cable length (m)		2	2	1	1	1	1
Average weight (g)							
Note		* 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

Series		SHIMANO	SHIMANO
Model no.		EC-E8004-12	EC-E6002
Color	1	Standard	Standard
	2	-	-
	3	-	-
Plug type		Type C	-
Typical example country/region		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-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036
Compatible voltage		100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz
Output		42 V DC, 4 - 4.6 A	42 V DC, 1.8 A
CE standard		-	✓
UL standard		-	✓
Korea standard		-	✓
Japan standard		-	✓
Charging time for 630 Wh (583 Wh in Japan) battery	Full charge (hour)	4.8 (* 5.7)	10.2
	80% charge (hour)	3.2 (* 4)	7.5
Charging time for 504 Wh (464 Wh in Japan) battery	Full charge (hour)	4 (* 4.5)	7.5
	80% charge (hour)	2.5 (* 3.2)	4
Charging time for 418 Wh (393 Wh in Japan) battery	Full charge (hour)	3.0 (* 3.5)	6.5
	80% charge (hour)	2.0 (* 2.5)	3.5
Charging level display		-	-
Plug in charging type		✓	✓
Charging temperature		0 - 40 °C	0 - 40 °C
Storage temperature		-20 - 60 °C	-20 - 60 °C
Error signal		✓	✓
Adapter for battery connector		** -	* -
Compatible AC power cable		-	SM-BCC1
Built in AC cable		✓	-
Built in AC cable length (m)		1	-
Average weight (g)			523
Note		* In case of 100 V AC ** Check latest line-up chart	* Check latest line-up chart

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CAN Adapter

Series	SHIMANO	SHIMANO
Model no.	EW-EX010	EW-EX300
Type	CAN adapter for Di2 (for BOSCH ebike system)	CAN adapter for SHIMANO STEPS
Master unit	✓	-
SD50 port (pcs)	2	1
SD300 port (pcs)	0	1
SD50 connector (pcs)	0	0
SD300 connector (pcs)	0	0
Compatible electric wire	EW-SD50	EW-SD300 EW-SD50
Note		

Chain Case Fixing screw

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-E6100-CRG/DU-E6110/DU-E6180

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