

This information was updated on February 6, 2018. SHIMANO makes no warranty with respect to this information, including without limitation any warranty on the accuracy of measures, specifications and compatibility of the current products. Regarding any modification and new product information after February 6, 2018, please refer to the SHIMANO Business Customer Web Site or directly contact the sales person of our company.



2017-2018 SPEC. HANDBOOK

- MTB
- **TREKKING**
- CITY TOURING/COMFORT
- ROAD
- **URBAN SPORT**
- **■** GENERAL
- DI2 Spec
- **■** E-BIKE

REMARKS Mark X: 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.

Word definitions

ВВ	Bottom bracket	HP	Head parts
ВС	Brake cable	HRB	Hub roller brake
ВСС	Battery cable	I-SPEC	Integration mounting system of brake
BCR	Battery charger	I-SPEC	and shifting lever
ВН	Disc brake hose	ID	CI-DECK
BL	Brake lever	JC	Junction
ВМ	Battery mount	LP	Light
BR	Brake caliper	MF	Multiple freewheel
BTC	Battery case	MU	Motor unit
ВТН	Battery holder	O.L.D.	Over Locknut Dimension
BTR	Battery	ОТ	Outer casing
СВ	Coaster brake	P.C.D.	Pitch Circle Diameter
CD	Chain device	PCE	PC Linkage device
CG	Chain guard	PD	Pedal
CJ	Cassette joint	PM	POWER MODULATOR
CN	Chain	QR	Quick release
СР	Spoke protector	RD	Rear derailleur
CR	Chainring	RT	Disc brake rotor
CS	Cassette sprocket	RTAD	Disc brake rotor adapter
CT	Chain tensioner	SB	REVOSHIFT shifter integrated with
DH	Hub dynamo	35	brake lever
DU	Drive unit	sc	Cycle computer
EC	Battery charger		System information display
EW	Electric wire	SF	Single free
EWC	Cord cover	SG	Internal geared hub
EWEX	DI2 adapter	SL	Shifting lever
EWW	Wireless unit	SPD	SHIMANO PEDALING DYNAMICS
FC	Crankset	SPD-SL	SHIMANO PEDALING DYNAMICS-SL
FD	Front derailleur	ST	DUAL CONTROL LEVER / shifting lever
FH	FREEHUB	3,	integrated with brake lever
GM	Grommet	SW	Switch
НВ	Front hub	WH	Wheel



MTB

K	

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Shifting Lever	2	SL
Shifting Lever (Integration Unit)	17	SMSL
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Brake Lever	18	BL
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Shifting/Brake Lever	21	ST
Rear Derailleur	26	RD
Front Derailleur	33	FD
Brake (Hydraulic disc brake)	53	BR
Brake (Mechanical disc brake)	56	BR
Brake (V-BRAKE)	57	BR
Crankset	58	FC
Chain device	67	SMCD
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Bottom Bracket (HOLLOWTECH II)	68	ВВ
Bottom Bracket	69	ВВ
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FREEHUB (Disc Brake)	82	FH
FREEHUB (Rim Brake)	87	FH
Wheel (Disc Brake)	88	WH
CI-DECK	98	CI-DECK

Ser	ies	XTR	XTR	XTR	XTR	XTR	XTR
Mode	el no.	SL-M9000-R	SL-M9000-L	SL-M9000-IR	SL-M9000-IL	SL-M980-A-R	SL-M980-A-L
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front s	peeds	-	2/3	-	2/3	-	2/3
Rear s	peeds	11	-	11	-	10	-
Compatible rear	derailleur type	MTB 11-speed RD	-	MTB 11-speed RD	-	MTB 10-speed RD	-
	Clamp band	Х	Х	-	-	Х	Х
Mount Type	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	Х	Х	-	-
Shifting lever p	oosition adjust	-	-	Х	Х	-	-
Shifting lever r	rotation adjust	-	-	x	X	-	-
Shifting lever	cable adjust	Х	Х	Х	х	X (CFRP)	X (CFRP)
2 / 3 mode	converter	-	-	-			Х
Max. multiple shift	s (Main lever/ rear)	4	-	4	-	4	-
	MULTI RELEASE	X**	-	X**	-	X	-
Release function	INSTANT RELEASE	Х	Х	x	X	X	Х
	2WAY-RELEASE	Х	Х	X	X	Х	Х
	with	-	-	-		-	-
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	Х	Х	Х	Х	Х	Х
Multi-Bearing	construction	4	4	4	4	4	4
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Siliting level bracket	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Clamp bolt	Material	Stainless steel	Stainless steel	-	-	Stainless steel	Stainless steel
Claimp Bort	Finish	-	-	-	-	-	-
Main lever body	Material	CFRP	CFRP	CFRP	CFRP	Aluminum	Aluminum
Wall level body	Finish	Painted	Painted	Painted	Painted	Anodized	Anodized
Release lever body	Material	CFRP	CFRP	CFRP	CFRP	CFRP & Steel	CFRP & Steel
Release level body	Finish			-	-	-	-
Base cover	Material	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
buse cover	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Jim ting level cable	Finish	Polymer-coated	Polymer-coated	Polymer-coated	Polymer-coated	SIL-TEC	SIL-TEC
Recommended shifting	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average w	veight (pc)	200 g/pair	200 g/pair	205 g/pair	205 g/pair	99 g	104 g
No	ote	**pull:single, push:double		**pull:single, push:double			

Ser	Series		XTR	SAINT	SAINT	DEORE XT	DEORE XT
Mode	el no.	SL-M980-B-IR	SL-M980-B-IL	SL-M820	SL-M820-B-I	SL-M8000-R	SL-M8000-L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front s	peeds	-	2/3	-	-	-	2/3
Rear s	peeds	10	-	10	10	11	-
Compatible rear	derailleur type	MTB 10-speed RD	-	MTB 10-speed RD	MTB 10-speed RD	MTB 11-speed RD	-
	Clamp band	-	-	X	-	Х	X
Mount Type	I-SPEC B	Х	Х	-	X**	-	-
	I-SPEC II	-	-	-	-	-	-
Shifting lever p	oosition adjust	Х	Х	-	Х	-	-
Shifting lever r	otation adjust	-	-	-	-	-	-
Shifting lever	cable adjust	X (CFRP)	X (CFRP)	X (CFRP)	X (CFRP)	X.	Х
2 / 3 mode	converter	-	Х	-		-	-
Max. multiple shift	s (Main lever/ rear)	4	-	4	4	4	-
	MULTI RELEASE	X	-	X*	X*	X*	-
Release function	INSTANT RELEASE	Х	Х	x	Х	X	Х
	2WAY-RELEASE	Х	Х	Х	X	Х	Х
	with	-	-	-		-	-
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	Х	Х
	without	Х	Х	Х	Х	Х	Х
Multi-Bearing	construction	4	4	4	4	2	2
Chifting lover bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Shifting lever bracket	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	•	Stainless steel	-	Stainless steel	Stainless steel
Clamp boil	Finish	-	-	Black	-	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Main level body	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Release lever body	Material	CFRP & Steel	CFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
Release level body	Finish			-	-	-	-
Base cover	Material	CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
buse cover	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Simuling level cable	Finish	SIL-TEC	SIL-TEC	-	-	OPTISLICK	OPTISLICK
Recommended shifting	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average w	reight (pc)	103 g	98 g	123 g	114 g	127 g	117 g
No	te			*pull:single, push:double	*pull:single, push:double **I-spec B-type	*pull:single, push:double	

SL

SMSL

BL

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DD

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FC

SMCR

ВВ

MF

НВ

НВ

FH

WH

3

Ser	ies	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Mode	el no.	SL-M8000-IR	SL-M8000-IL	SL-M8000-B-IR	SL-M8000-B-IL	SL-M780-B-IR	SL-M780-B-IL
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front	speeds	-	2/3	-	2/3	-	2/3
Rear s	peeds	11	-	11	-	10	-
Compatible rear	derailleur type	MTB 11-speed RD	-	MTB 11-speed RD	-	MTB 10-speed RD	-
	Clamp band	-	-	-	-	-	-
Mount Type	I-SPEC B	-	-	х	Х	Х	Х
	I-SPEC II	Х	Х	-	-	-	-
Shifting lever (oosition adjust	Х	Х	х	Х	х	Х
Shifting lever i	rotation adjust	Х	Х	-	-	-	-
Shifting leve	cable adjust	Х	Х	х	х	X	Х
2 / 3 mode	converter	-	-	-		-	Х
Max. multiple shift	s (Main lever/ rear)	4	-	4	-	4	<u>-</u>
	MULTI RELEASE	X*	-	X*		X	-
Release function	INSTANT RELEASE	X	X	x	Х	X	X
	2WAY-RELEASE	Х	Х	X	X	Х	Х
	with	-	-	-	•	-	-
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	Х	Х	Х	Х	Х	Х
Multi-Bearing	construction	2	2	2	2	2	2
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Siliting level bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	•	-	-	-	-
Clamp Bott	Finish	-	-	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
main level body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
Release level body	Finish			-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
Dase cover	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Similing level cable	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	-	-
Recommended shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average w	veight (pc)	120 g	110 g	117 g	107 g	114 g	106 g
No	ite	*pull:single, push:double		*pull:single, push:double			

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX	SLX
Mode	el no.	SL-M780-R	SL-M780-L	SL-M770-A-R	SL-M770-A-L	SL-M7000-11-R	SL-M7000-L
c.l.	1	Series color					
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS					
Front s	peeds	-	2/3	-	3	-	2/3
Rear s	peeds	10	-	9	-	11	-
Compatible rear	derailleur type	MTB 10-speed RD	-	MTB 9-speed RD	-	MTB 11-speed	-
	Clamp band	Х	Х	х	Х	Х	Х
Mount Type	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
Shifting lever p	osition adjust	-	-	-	-	-	-
Shifting lever r	otation adjust	-	-	-	-	-	-
Shifting lever	cable adjust	Х	Х	х	х	X	Х
2 / 3 mode	converter	-	Х	-		-	-
Max. multiple shift	s (Main lever/ rear)	4	-	4	-	3	-
	MULTI RELEASE	Х	-	-	-	-	-
Release function	INSTANT RELEASE	Х	Х	х	Х	-	-
	2WAY-RELEASE	Х	Х	х	X	Х	Х
	with	-	-	-		-	-
OPTICAL GEAR DISPLAY	with (removable)	Х	Х	Х	Х	х	Х
	without	Х	Х	х	Х	Х	Х
Multi-Bearing	construction	2	2	2	2	-	-
eliter in the color of an	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Shifting lever bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
el lli	Material	Stainless steel					
Clamp bolt	Finish	-	<u> </u>	-	-	-	-
Main laws hade	Material	Aluminum	Aluminum	Aluminum	Aluminum	GFRP & Steel	GFRP & Steel
Main lever body	Finish	Painted	Painted	Painted	Painted	-	-
Dalassa lavas kaski	Material	GFRP & Steel					
Release lever body	Finish			-	-	-	-
Page carrer	Material	GFRP	GFRP	Resin	Resin	GFRP	GFRP
Base cover	Finish	Painted	Painted	Painted	Painted	-	-
Chifting layer schi-	Material	Stainless steel					
Shifting lever cable	Finish	-	-	-	-	OPTISLICK	OPTISLICK
Recommended shifting	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average w	reight (pc)	128 g	121 g	255 g/pair	255 g/pair	135 g	130 g
No	te						

SL

SMSL

BL

ST

ST

FD

BR

BR

BR

SMCR

ВВ

CS

MF

НВ

НВ

FH

WH

CI-DECK

Ser	ies	SLX	SLX	SLX	SLX	SLX	SLX
Mode	el no.	SL-M7000-11-IR	SL-M7000-IL	SL-M7000-11-B-IR	SL-M7000-B-IL	SL-M7000-10-R	SL-M7000-10-IR
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front	peeds	-	2/3	-	2/3	-	-
Rear s	peeds	11	-	11	-	10	10
Compatible rear	derailleur type	MTB 11-speed	-	MTB 11-speed	-	MTB 10-speed	MTB 10-speed
	Clamp band	-	-	-	-	Х	-
Mount Type	I-SPEC B	-	-	Х	Х	-	-
	I-SPEC II	Х	X	-	-	-	Х
Shifting lever	oosition adjust	х	Х	Х	Х	-	Х
Shifting lever i	rotation adjust	-	-	-	-	-	-
Shifting leve	cable adjust	Х	Х	Х	х	X	Х
2 / 3 mode	converter	-	-	-		-	-
Max. multiple shift	s (Main lever/ rear)	3	-	3	-	3	3
	MULTI RELEASE	-	-	-	-	-	-
Release function	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	Х	Х	X	X	Х	Х
	with	-	-	-		-	-
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	Х	-
	without	Х	Х	Х	Х	Х	Х
Multi-Bearing	construction	-	-		-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Siliting level bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	•	-	-	Stainless steel	-
Clamp Bott	Finish	-	-	-	-	-	-
Main lever body	Material	GFRP & Stee <mark>l</mark>	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
main level body	Finish	-	-	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
nereuse level body	Finish			-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
2000 00101	Finish		-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
I and a second	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average w	reight (pc)	120 g	115 g	127 g	120 g	135 g	120 g
No	ote						

Series		SLX	SLX	SLX	SLX	SLX	ZEE
Mode	Model no.		SL-M670-B-IR	SL-M670-B-IL	SL-M670-R	SL-M670-L	SL-M640
Calan	1	Series color					
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS					
Front	speeds	-	-	2/3	-	2/3	-
Rear s	peeds	10	10	-	10	-	10
Compatible rear	derailleur type	MTB 10-speed	MTB 10-speed RD	-	MTB 10-speed RD	-	MTB 10-speed RD
	Clamp band	-	-	-	Х	х	Х
Mount Type	I-SPEC B	Х	Х	х	-	-	-
	I-SPEC II	-	-	-	-	-	-
Shifting lever	oosition adjust	Х	Х	х	-	-	-
Shifting lever i	rotation adjust	-	-	-	-	-	-
Shifting leve	cable adjust	Х	Х	X	х	X	Х
2 / 3 mode	converter	-	-	X		х	-
Max. multiple shift	s (Main lever/ rear)	3	3	-	3	-	3
	MULTI RELEASE	-	-	-	-		-
Release function	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	Х	Х	X	Х	х	Х
	with	-	-	-		-	-
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	X	Х	-
	without	Х	Х	Х	Х	Х	Х
Multi-Bearing	construction	-	-		-	-	-
Chifting laway hyadkat	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Shifting lever bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	·	-	Stainless steel	Stainless steel	Stainless steel
Clamp boil	Finish	-	-	-	-	-	-
Main lever body	Material	GFRP & Steel					
Main level body	Finish	-	-	-	-	-	-
Release lever body	Material	GFRP & Steel					
Release level body	Finish			-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
base cover	Finish		-	-	-	-	-
Shifting lever cable	Material	Stainless steel					
Jimung lever cable	Finish	OPTISLICK	-	-	-	-	-
Recommended shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average w	veight (pc)	127 g	121 g	116 g	265 g/pair	265 g/pair	127 g
No	ote						

SL

BL

ΒL

ST

FD

BR

BR

BR

SMCD

SMCR

ВВ

MF

НВ

НВ

FH

WH

Ser	ies	DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Mode	Model no.		SL-M6000-L	SL-M6000-IR	SL-M6000-IL	SL-M610-R	SL-M610-L
	1	Series black	Series black	Series black	Series black	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front	peeds	-	2/3	-	2/3	-	2/3
Rear s	peeds	10	-	10	-	10	-
Compatible rear	derailleur type	MTB 10-speed RD	-	MTB 10-speed RD	-	MTB 10-speed RD	-
	Clamp band	Х	Х	-	-	Х	Х
Mount Type	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	Х	Х	-	-
Shifting lever	oosition adjust	-	-	-	-	-	-
Shifting lever i	rotation adjust	-	-	-	-	-	-
Shifting leve	cable adjust	Х	Х	Х	х	Х	Х
2 / 3 mode	converter	-	-	-		-	Х
Max. multiple shift	s (Main lever/ rear)	3	-	3	-	3	-
	MULTI RELEASE	-	-	-	-		-
Release function	INSTANT RELEASE	-	-	-	-	•	-
	2WAY-RELEASE	Х	Х	Х	X	Х	Х
	with	Х	Х	-		Х	X
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	Х	Х	X	х	-	-
Multi-Bearing	construction	-	-		-	-	-
Chifting laver breeket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Shifting lever bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	Stainless steel	-	-	Stainless steel	Stainless steel
Clamp boil	Finish	-	-	-	-	-	-
Main lever body	Material	GFRP & Stee <mark>l</mark>	GFRP & Steel				
Maili level body	Finish	-	-	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
Release lever body	Finish			-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
base cover	Finish		-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Simuling level cable	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	-	-
Recommended shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average w	veight (pc)		-	-	-	-	-
No	ote						

Series		DEORE	DEORE	DEORE	DEORE	ALIVIO	ALIVIO
Mode	Model no.		SL-M610-IL	SL-M590-R	SL-M590-L	SL-M4000-R	SL-M4000-L
Calan	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front s	peeds	-	2/3	-	3	-	3
Rear s	peeds	10	-	9	-	9	-
Compatible rear	derailleur type	MTB 10-speed RD	-	MTB 9-speed RD	-	MTB 9-speed RD	-
	Clamp band	-	-	х	Х	Х	Х
Mount Type	I-SPEC B	Х	Х	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
Shifting lever p	oosition adjust	-	-	-	-	-	-
Shifting lever r	otation adjust	-	-	-	-	-	-
Shifting lever	cable adjust	Х	Х	Х	х	X	Х
2 / 3 mode	converter	-	Х	-			-
Max. multiple shift:	s (Main lever/ rear)	3	-	3	-	3	-
	MULTI RELEASE	-	-	-	-		-
Release function	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	х	Х	Х	Х	х	Х
	with	-	-	X	X	х	X
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	Х	Х	-	-	-	-
Multi-Bearing	construction	-	-		-	-	-
Chifting lavor brocket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Shifting lever bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-		Stainless steel	Stainless steel	Stainless steel	Stainless steel
Clamp boil	Finish	-	-	-	-	-	-
Main lever body	Material	GFRP & Stee <mark>l</mark>	GFRP & Steel	GFRP & Steel	GFRP & Steel	Resin & Steel	Resin & Steel
Main level body	Finish	-	-	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	Resin & Steel	Resin & Steel
helease level body	Finish			-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	Resin	Resin
base cover	Finish		-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Jimung lever cable	Finish	-	-	-	-	Standard	Standard
Recommended shifting	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP40	OT-SP40
Average w	veight (pc)		-	-	-	-	-
No	te						

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Ser	ies	ALIVIO	ACERA	ACERA	ACERA	ACERA	ACERA
Model no.		SL-M4010-L	SL-M3000-R	SL-M3000-L	SL-M3010-L	SL-M360-R	SL-M360-L
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE Plus	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE Plus	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front s	speeds	2	-	3	2	-	3
Rear s	peeds	-	9	-	-	8	-
Compatible rear	derailleur type	-	MTB 9-speed RD	-	-	MTB 8-speed RD	-
	Clamp band	Х	Х	Х	Х	Х	Х
Mount Type	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
Shifting lever p	oosition adjust	-	-	-	-	-	-
Shifting lever r	rotation adjust	-	-	-	- /	-	-
Shifting lever	cable adjust	Х	Х	х	х	х	х
2 / 3 mode	converter	-	-	-		-	-
Max. multiple shift	s (Main lever/ rear)	-	3	-	-	3	-
	MULTI RELEASE	-	-	-	-	-	-
Release function	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	Х	-		·	-	-
	with	Х	Х	х	Х	х	Х
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing	construction	-	-	-	-	-	-
Chifain a lavora haradesa	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Shifting lever bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp halt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
Clamp bolt	Finish	-	-	-	-	-	-
Main lever body	Material	Resin & Stee <mark>l</mark>	Steel & Resin	Steel & Resin	Steel & Resin	Resin & Steel	Resin & Steel
wani level bouy	Finish	-	-	-	-	-	-
Release lever body	Material	Resin & Steel	Steel & Resin	Steel & Resin	Steel & Resin	Resin & Steel	Resin & Steel
Release level body	Finish			-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
base cover	Finish			-	-	-	-
Shifting lever cable	Material	Stainless steel	Steel*	Steel*	Steel	Steel	Steel
Jamany level capie	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shifting	ng lever outer casing	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Average w	veight (pc)		-	-	-	-	-
No	ote		*Stainless steel option available	*Stainless steel option available			

Series		ALTUS	ALTUS	SHIMANO	SHIMANO	SHIMANO	TOURNEY
Mode	el no.	SL-M2000-R	SL-M2000-L	SL-M310-8R	SL-M310-7R	SL-M310-L	SL-RS47-8R
	1	Series color					
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	REVOSHIFT				
Front s	speeds	-	3	-	-	3	-
Rear s	peeds	9	-	8	7	-	8
Compatible rear	derailleur type	MTB 9-speed RD	-	MTB 8-speed RD	MTB 7-speed RD	-	MTB 8-speed RD
	Clamp band	Х	Х	Х	Х	Х	Х
Mount Type	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
Shifting lever	oosition adjust	-	-	-	-	-	-
Shifting lever r	rotation adjust	-	-	-	-	-	-
Shifting lever	cable adjust	Х	Х	х	х	X	х
2 / 3 mode	converter	-	-	-		-	-
Max. multiple shifts	s (Main lever/ rear)	3	-	3	3	-	7
	MULTI RELEASE	-	-	-	-	-	-
Release function	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	-	-		·	-	-
	with	Х	Х	х	Х	х	Х
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
5.5.2	without	-	-	-	-	-	-
Multi-Bearing	construction	-	-	-	-	-	-
cliffication to a land	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
Shifting lever bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clause half	Material	Steel	Steel	Steel	Steel	Steel	Steel
Clamp bolt	Finish	Plated	Plated	-	-	-	-
	Material	Resin & Steel	-				
Main lever body	Finish	-	-	-	-	-	-
Balance In 1999	Material	Resin & Steel	-				
Release lever body	Finish			-	-	-	-
Page	Material	Resin	Resin	Resin	Resin	Resin	Resin
Base cover	Finish			-	-	-	-
Chiffin a la constitu	Material	Steel	Steel	Steel	Steel	Steel	Steel
Shifting lever cable	Finish	OPTISLICK	OPTISLICK	Standard	Standard	Standard	Standard
Recommended shifting	ng lever outer casing	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SIS40
Average w	reight (pc)		-	-	-	-	-
No	vte						OGD frame :Chrome plating Compatible with CI-DECK

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CI DECK

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Mode	Model no.		SL-RS47-L	SL-RS45-8R	SL-RS45-7R	SL-RS45-6R	SL-RS45-L
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color 2		-	-	-	-	-	-
Shifte	r type	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front s	peeds	-	3	-	-	-	3
Rear s	peeds	7	-	8	7	6	-
Compatible rear	derailleur type	MTB 7-speed RD	-	MTB 8-speed RD	MTB 7-speed RD	MTB 6-speed RD	-
	Clamp band	Х	Х	Х	Х	Х	Х
Mount Type	I-SPEC B	-	-	-	-	-	-
İ	I-SPEC II	-	-	-	-	-	-
Shifting lever p	osition adjust	-	-	-	-	-	-
Shifting lever r	otation adjust	-	-	-	-	-	-
Shifting lever	cable adjust	Х	Х	Х	х	X	х
2 / 3 mode	converter	-	-	-		-	-
Max. multiple shifts	s (Main lever/ rear)	6	-	7	6	5	-
	MULTI RELEASE	-	-	-		-	-
Release function	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	-	-	_	·	-	-
	with	Х	Х	Х	Х	х	Х
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing	construction	-	-	-	-	-	-
Chifsian lawar harakat	Material	Steel	Steel	Steel	Steel	Steel	Steel
Shifting lever bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clause half	Material	Steel	Steel	Steel	Steel	Steel	Steel
Clamp bolt	Finish	-	-	-	-	-	-
Main lovey body	Material	-	-	-	-	-	-
Main lever body	Finish	-	-	-	-	-	-
Balanca layer hady	Material	j	-	-	-	-	-
Release lever body	Finish			-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
pase cover	Finish		-	-	-	-	-
Chifting laws sah!	Material	Steel	Steel	Steel	Steel	Steel	Steel
Shifting lever cable	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shiftir	ng lever outer casing	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average w	reight (pc)		-	-	-	-	-
No	te	OGD frame :Chrome plating Compatible with CI-DECK	OGD frame :Chrome plating Compatible with CI-DECK	Compatible with CI-DECK	Compatible with CI-DECK	Compatible with CI-DECK	Compatible with CI-DECK

Ser	Series TOURNEY		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Mode	Model no.		SL-RS36-6R	SL-RS36-L	SL-RS35-7R	SL-RS35-6R	SL-RS35-L
Color	1	Series color					
Color	2	-	-	-	-	-	-
Shifte	r type	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front s	peeds	-	-	3	-	-	3
Rear s	peeds	7	6	-	7	6	-
Compatible rear	derailleur type	MTB 7-speed RD	MTB 6-speed RD	-	MTB 7-speed RD	MTB 6-speed RD	-
	Clamp band	Х	Х	Х	Х	X	X
Mount Type	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
Shifting lever p	osition adjust	-	-	-	-	-	-
Shifting lever r	otation adjust	-	-	-	-	-	-
Shifting lever	cable adjust	-	-	Х	-		Х
2 / 3 mode	converter	-	-	-		-	-
Max. multiple shifts	s (Main lever/ rear)	6	5	-	6	5	-
	MULTI RELEASE	-	-	-	-	-	-
Release function	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	-	-		·	-	-
	with	Х	Х	Х	Х	х	Х
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
3.5. 2	without	-	-	-	-	-	-
Multi-Bearing	construction	-	-	-	-	-	-
	Material	Steel	Steel	Steel	Resin	Resin	Resin
Shifting lever bracket	Finish	Painted	Painted	Painted	Resin	Resin	Resin
di la li	Material	Steel	Steel	Steel	Steel	Steel	Steel
Clamp bolt	Finish	-	-	-	-	-	-
Main lawan badu	Material	-	-	-	-	-	-
Main lever body	Finish	-	-	-	-	-	-
	Material		-	-	-	-	-
Release lever body	Finish			-	-	-	-
P	Material	Resin	Resin	Resin	Resin	Resin	Resin
Base cover	Finish		-	-	-	-	-
elite: . l	Material	Steel	Steel	Steel	Steel	Steel	Steel
Shifting lever cable	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shifting	ng lever outer casing	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average w	veight (pc)		-	-	-	-	-
No	te	w/ CI-DECK spec is available as option					

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Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Mode	el no.	SL-RS35-LN	SL-RS34-6R	SM-RS34-L	SL-FT55-7R	SL-TX50-7R	SL-TX50-6R
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	REVOSHIFT	REVOSHIFT	-	Thumb shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus
Front s	peeds	3 (Friction)	-	-	-	-	-
Rear s	peeds	-	6	-	7	7	6
Compatible rear	derailleur type	-	MTB 6-speed RD	-	MTB 7-speed RD	MTB 7-speed RD	MTB 6-speed RD
	Clamp band	Х	Х	Х	Х	Х	Х
Mount Type	I-SPEC B	-	-	-	-	-	-
ĺ	I-SPEC II	-	-	-	-	-	-
Shifting lever p	oosition adjust	-	-	-	-	-	-
Shifting lever r	rotation adjust	-	-	-	-	-	-
Shifting lever	cable adjust	Х	-	-	-	-	-
2 / 3 mode	converter	-	-	-			-
Max. multiple shifts	s (Main lever/ rear)	-	5	-	6	6	5
	MULTI RELEASE	-	-	-	-		-
Release function	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	-	-	_		-	-
	with	Х	Х	-	Х	Х	Х
OPTICAL GEAR DISPLAY	with (removable)	-	-	-		-	-
	without	-	-	-	-	-	-
Multi-Bearing	construction	-	-	-	-	-	-
Chiffin a lavor har shot	Material	Resin	Steel	Steel	Steel	Steel	Steel
Shifting lever bracket	Finish	Resin	Painted	Painted	Painted	Painted	Painted
Clause half	Material	Steel	Steel	Steel	Steel	Steel	Steel
Clamp bolt	Finish	-	-	-	-	-	-
Main lover bady	Material	-	-	-	Resin	Resin	Resin
Main lever body	Finish	-	-	-	-	-	-
Delegge lever hady	Material	·	-	-	Resin	Resin	Resin
Release lever body	Finish			-	-	-	-
Paga sayyar	Material	Resin	Resin	Resin	Resin	Resin	Resin
Base cover	Finish	-	-	-	-	-	-
Chifting layer cable	Material	Steel	Steel	-	Steel	Steel	Steel
Shifting lever cable	Finish	Standard	Standard	-	Standard	Standard	Standard
Recommended shifting lever outer casing		OT-SIS40	OT-SIS40	-	OT-SIS40	OT-SIS40	OT-SIS40
Average weight (pc)			-	-	-	-	-
Note		w/ CI-DECK spec is available as option	with LED position light, Electric wire length 200 mm (both Black/gray color spec available)/for Japan market only, with CI-DECK spec available	with LED position light, Electric wire length 160 mm (both Black/gray color spec available)/for Japan market only			

Ser	Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY TZ
Mode	el no.	SL-TX50-L	SL-TX50-LN	SL-TX30-7R	SL-TX30-6R	SL-TX30-LN	SL-TZ500-7R
c.i.	1	Series color					
Color	2	-	-	-	-	-	-
Shifte	r type	Thumb Shifter Plus	Thumb Shifter				
Front s	speeds	3	3 (Friction)	-	-	3 (Friction)	-
Rear s	peeds	-	-	7	6	-	7
Compatible rear	derailleur type	-	-	MTB 7-speed RD	MTB 6-speed RD	-	MTB 7-speed RD
	Clamp band	Х	Х	X	Х	Х	Х
Mount Type	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
Shifting lever p	oosition adjust	-	-	-	-	-	-
Shifting lever r	rotation adjust	-	-	-	-	-	-
Shifting lever	cable adjust	Х	Х	-	-	X	-
2 / 3 mode	converter	-	-	-		-	-
Max. multiple shift	s (Main lever/ rear)	-	-	6	5	-	6
	MULTI RELEASE	-	-	-	-	-	-
Release function	INSTANT RELEASE	-	-	-	-	•	-
	2WAY-RELEASE	-	-		·	-	-
	with	X	Х	X	Х	Х	X*
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing	construction	-	-		-	-	-
Chifting laver bresket	Material	Steel	Steel	Steel	Steel	Steel	Steel
Shifting lever bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
Clamp bort	Finish	-	-	-	-	-	Zinc plated
Main lever body	Material	Resin	Resin	Resin	Resin	Resin	Resin
Main level body	Finish	-	-	-	-	-	-
Release lever body	Material	Resin	Resin	Resin	Resin	Resin	-
Release level body	Finish			-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
base Cover	Finish	-	-	-	-	-	-
Chifting lover sabi-	Material	Steel	Steel	Steel	Steel	Steel	Steel
Shifting lever cable	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shifting	ng lever outer casing	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average w	veight (pc)		-	-	-	-	-
No	ote						* Gear Position Indicator

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Ser	ies	TOURNEY TZ	TOURNEY TZ	
Mode	el no.	SL-TZ500-6R	SL-TZ500-LN	
e i l	1	Series color	Series color	
Color	2	-	-	
Shifte	r type	Thumb Shifter	Thumb Shifter	
Front	peeds	-	3 (Friction)	
Rear s	peeds	6	-	
Compatible rear	derailleur type	MTB 6-speed RD	-	
	Clamp band	Х	Х	
Mount Type	I-SPEC B	-	-	
	I-SPEC II	-	-	
Shifting lever p	oosition adjust	-	-	
Shifting lever i	rotation adjust	-	-	
Shifting leve	cable adjust	-	-	
2 / 3 mode	converter	-	-	
Max. multiple shift	s (Main lever/ rear)	5	-	
	MULTI RELEASE	-	-	
Release function	INSTANT RELEASE	-	-	
	2WAY-RELEASE	-	-	
	with	X*	X*	
OPTICAL GEAR DISPLAY	with (removable)	-	-	
	without	-	-	
Multi-Bearing	construction	-	-	
Chifting laws has about	Material	Steel	Steel	
Shifting lever bracket	Finish	Painted	Painted	
Clamp bolt	Material	Steel	Steel	
Clamp boil	Finish	Zinc plated	Zinc plated	
Main lever body	Material	Resin	Resin	
Main level body	Finish	-	-	
Pologo lovor body	Material	-	-	
Release lever body	Finish			
Base cover	Material	Resin	Resin	
base cover	Finish			
Shifting lever cable	Material	Steel	Steel	
Jilliung lever cable	Finish	Standard	Standard	
Recommended shifti	ng lever outer casing	OT-SIS40	OT-SIS40	
Average w	veight (pc)		-	
No	ote	* Gear Position Indicator	* Gear Position Indicator	



МТВ

Shifting Lever (Integration Unit)

Series		XTR	XTR	SAINT	DEORE XT	DEORE XT
Mode	el no.	SM-SL98-B-R	SM-SL98-B-L	SM-SL82-B	SM-SL78-B-R	SM-SL78-B-L
Base cove	Base cover material		CFRP	GFRP	GFRP	GFRP
etite:	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Shifting lever bracket	Finish	Anodized	Anodized	Painted	Painted	Painted
I-SPEC co	mpatible	X*	X*	X*	X*	X*
Compatible Shifting lever		SL-M980	SL-M980	SL-M820	SL-M780/SL-T780	SL-M780/SL-T780
Note		*I-SPEC B-type compatible				



Brake Lever (Hydraulic disc brake)

Series		XTR	XTR	SAINT	DEORE XT	SLX	ZEE
Model no.		BL-M9000	BL-M9020	BL-M820-B	BL-M8000	BL-M7000	BL-M640-B
Brake		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size		2	2	2	2	2	2
2010.15.20	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	Julies colo.	-	-	-	-	-
	3			-	-	-	-
Brake ho	ose (Kit)	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBS
Hose	joint	Straight	Straight	Straight	Straight	Straight	Straight
	1	Black	Black	Black	Black	Black	Black
Brake hose color (kit)	2	-	-	White	-	-	White
J-Kit spec	(for OEM)	X	Х	Х	Х	Х	Х
SERVO	WAVE	-	Х	Х	Х	Х	Х
Danah adiwat	Toolless	-	Х	Х	Х	Х	-
Reach adjust	Tool	Х	-	-	-	-	Х
Free strol	Free stroke adjust		Х	X	Х	-	-
	Clamp band	Х	Х	X	X	X	X
Compatible SL mount	I-SPEC B	-	-	X*	-	-	-
	I-SPEC II	Х	Х	-	Х	X	Х
Clamp band	Open clamp	Х	Х	X	Х	X	X
Recommended	l brake caliper	BR-M9000	BR-M9020	BR-M820	BR-M8000	BR-M7000	BR-M640
0	il	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel b	leeding	X	X	X	X	X	X
Clamp bolt	Material	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Clairip boil	Finish	Anodized	Anodized	Painted	-	-	-
Brake lever	Material	CFRP	Aluminum+CFRP	Aluminum	Aluminum	Aluminum	Aluminum
brake level	Finish	Painted	Painted	Anodized	Anodized	Anodized	Anodized
Master cylinder	Material	Magnesium	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
waster cyllider	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (kit for front 800 mm, w/160 mm recommend RT, w/lockring, w/o adapter, w/2bolts, w/ Resin pad)		316 g	360 g	103.2 g**	402.5 g	418.8 g	116.7 g**
No	te			*I-SPEC B-type **single item weight			* I-SPEC B-type ** single item weight

SL

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CI-DECK

Brake Lever (Hydraulic disc brake)

Ser	ies	DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BL-M6000	BL-MT500	BL-M425	BL-M396	BL-M365	BL-M315
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
	1	Series Black	Series Black	Black	Black	Black	Black
Color	2	Black (SHIMANO logo)**	-	White	White	White	-
	3	-	-	-	-	-	-
Brake ho	ose (Kit)	SM-BH90-SS	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	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
brake nose color (kit)	2	-	-	-	-	-	-
J-Kit spec	(for OEM)	X	X	X	X	X	X
SERVO	WAVE	X	X	-	-	-	-
Reach adjust	Toolless	-	-	-	-	-	-
Reacti aujust	Tool	X	X	X	X	X	X
Free strol	ke adjust	-	-	-	-	-	-
	Clamp band	X	X	X	X	Х	X
Compatible SL mount	I-SPEC B	-	-	-	-		-
	I-SPEC II	X	Х	-	-	-	-
Clamp band	Open clamp	X	X	-		-	-
Recommended	l brake caliper	BR-M6000	BR-MT500	BR-M395	BR-M395	BR-M365	BR-M315
0	il	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel b	leeding	X	X	X	X	X	X
Clamp bolt	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
Clamp boil	Finish	-	-	Plated	Plated	Plated	Plated
Brake lever	Material	Aluminum	Aluminum	Aluminum	Steel	Aluminum	Steel
Diake level	Finish	Anodized	Anodized	Anodized	Painted	Anodized	Painted
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
wiaster Cyllilder	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (kit for front 800 mm, w/160 mm recommend RT, w/lockring, w/o adapter, w/2bolts, w/ Resin pad)		-			-	-	-
No	te	** M6000 kit only					

Brake Lever

Sei	ries	DXR				
Mode	el no.	BL-MX70				
	1	Series color				
Color	2	-				
	3	-				
	V-BRAKE	X				
	Mechanical disc brake (MTB)	X				
Compatible brake type	Mechanical disc brake (Road)	·				
	Caliper (NEW SUPER SLR)	·				
	Caliper (SUPER SLR)					
	Cantilever brake	-				
	Roller brake	-				
Recommended POWER MODULATOR	V-BRAKE	-				
	Mechanical disc brake (MTB)	-				
	Open clamp band	-				
Clamp band	I-SPEC	-				
	Diameter (mm)	-				
Internal bu	ımper stop	-				
Lever siz	e (Finger)	2				
Brake ca	ble type	T-type				
Power a	adjuster	-				
SERVO	WAVE	-				
Reach	adjust	Х				
Cable	adjust	Х				
Cable ad	just type	One hand				
Brake lever	Material	Aluminum				
Drake lever	Finish	Anodized				
Brake bracket	Material	Aluminum				
Drake pracket	Finish	Painted				
Stainless (clamp bolt	Х				
Average w	Average weight (pair)					
No	ote	For BMX				

RD

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Shifting/Brake Lever (Hydraulic disc brake)

Series		ALIVIO	ALIVIO	ACERA	ACERA	SHIMANO	SHIMANO	
Mod	el no.		ST-M4050-R	ST-M4050-L	ST-M3050-R	ST-M3050-L	ST-EF505-9R	ST-EF505-8R
	1		Series color	Series color	Series color	Series color	Black	Black
Color	Color 2		-	-	-	-	-	-
Shifte	r type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
	Front s	speeds	-	3	-	3	-	-
	Rears	peeds	9	-	9	-	9	8
	2 / 3 mode	converter	-	-	-	-	-	-
	Max. mult (Main lev		3	-	3	-	3	3
	Compati deraille	ible rear	MTB 9-speed RD	-	MTB 9-speed RD	-	MTB 9-speed RD	MTB 8-speed RD
	I-SPEC co		-	-	-	-	-	-
	Shifting position	g lever n adjust	-	-	-	-	-	-
		MULTI RELEASE	-	-	-	-	<u> </u>	-
	Release function	INSTANT RELEASE	-	-	-	-		-
Shifting lever		2WAY- RELEASE	Х	Х	-		·	-
	Shifting le	ever cable	Х	Х	х	х	х	Х
		With	Х	Х	Х	Х	Х	Х
	OPTICAL GEAR DISPLAY	With (remov- able)	-	-		-	-	-
	2.31 201	Without	-	-	-	-	-	-
	Multi-B constr		-			-	-	-
	Shifting le		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
	Shifting lever	Material	Stainless steel	Stainless steel	Steel*	Steel*	Steel	Steel
	cable	Finish	Standard	Standard	Standard	Standard	OPTISLICK	OPTISLICK
	Lever size	e (Finger)	2	2	2	2	3	3
	Brake ho	ose (Kit)	SM-BH59-JK-SS	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	Straight
	Brake hose	1	Black	Black	Black	Black	Black	Black
	color (kit)	2	-	-	-	-	-	-
	J-Kit spec (for OEM)		Х	Х	Х	Х	Х	Х
	Recommen	nded brake per	BR-M4050	BR-M4050	BR-M3050	BR-M3050	BR-M315	BR-M315
Brake lever)il	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach	Toolless		-	-	-	-	-
	adjust	Tool	х	Х	Х	Х	Х	Х
	Funnel b	oleeding	Х	Х	Х	Х	Х	Х
	_	ke adjust	-	-	-	-	-	-
	SERVO	WAVE	-	-	-	-	-	-
	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin	ish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Clamp band	Open	clamp	-	-	-	-	-	-
Shifter Lever body		ain	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
,	 	ease	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
Master cylinder		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
-	Fin		Painted	Painted	Painted	Painted	Painted	Painted
	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Bracket	\vdash	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
		Finish	X	X	-	-	Zinc plated	Zinc plated
	clamp bolt e weight		X -	X -	X -	X -	-	-
			-	-	*Stainless steel	*Stainless steel	-	
No	ote				option available	option available		

Shifting/Brake Lever (Hydraulic disc brake)

	ries		SHIMANO
Mode	ST-EF505-L		
Color	2		Black
	-		
Shifte		EZ FIRE PLUS	
	Front	speeds	3
	Rear s	peeds	-
	2 / 3 mode	converter	-
		iple shifts er / rear)	-
	Compati deraille	ible rear ur type	-
	I-SPEC co	mpatible	-
		g lever 1 adjust	-
		MULTI RELEASE	-
	Release function	INSTANT RELEASE	-
Shifting lever		2WAY- RELEASE	-
		ever cable ust	Х
		With	Х
	OPTICAL	With	
	GEAR DISPLAY	(remov- able)	-
	DISPLAT	Without	-
	Multi-E	Bearing	
	constr		-
	Shifting le	ever outer ing	OT-SP40
	Shifting	Material	Steel
	lever cable	Finish	OPTISLICK
		e (Finger)	3
		ose (Kit)	SM-BH59-JK-SS
		joint	Straight
	Brake	1	Black
	hose color (kit)	2	
		(for OEM)	X
		ded brake	
Dyalta lav		per	BR-M315
Brake lever	0	il	SHIMANO Mineral
	Reach	Toolless	
	adjust	Tool	Х
	Funnel b	oleeding	Х
	Free stro	ke adjust	-
	SERVO	WAVE	-
	Mat	erial	Aluminum
	Fin	ish	Painted
Clamp band	Open	clamp	-
Shifter Lever body	Ma	ain	Steel & Resin
		ease	Steel & Resin
Master cylinder		erial	Aluminum
	Fin	ish	Painted
	Bracket	Material	Aluminum
Bracket		Finish	Painted
	Clamp bolt	Material Finish	Steel
	Zinc plated		
Stainless	-		
	weight		-
No			

BR

SMCR

BB

НВ

НВ

Shifting/Brake Lever

Se	eries		ALIVIO	ALIVIO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
	del no.		ST-M4000-R	ST-M4000-L	ST-EF65-9R2	ST-EF65-9R4	ST-EF65-8R2	ST-EF65-8R4
Color		1	Series color	Series color	Black	Black	Black	Black
Coloi		2	-	-	Silver	Silver	Silver	Silver
		r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
	-	speeds	9	3	9	9	- 8	- 8
		peeds le RD Type	MTB 9-speed RD	-	MTB 9-speed RD	MTB 9-speed RD	MTB 8-speed RD	MTB 8-speed RD
		on adjust		-	- with 3-speed ND	- WITE 3-speed ND	- WITD 0-speed ND	-
		e adjust	Х	Х	Х	X	Х	Х
		converter	-	-	-	-	-	-
		tiple shifts	3	_	3	3	3	3
	(Main lev	er / rear) MULTI	-		-	-	-	-
		RELEASE	-	-	-	-	-	-
	Release function	INSTANT RELEASE	-	-	-	-	-	-
		2WAY- RELEASE	х	х	-	-	-	-
Shifting lever	OPTICAL	With	X	Χ	X	X	X	X
Jilliung level	GEAR	With	-	_	_		-	-
	DISPLAY	(removable) Without	-	-	-		-	-
	Multi-E	Bearing						
	constr	uction	- Davin O Ctarl	- Di- 0 C+l	- D:- 0 C+I	Davi o Cr	Day's Core I	- Di 0 C+I
	Main lever	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	body	Finish	-	-			-	-
	Release	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	lever body	Finish	-	-			-	-
	Shifting	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
	lever cable	Finish	Standard	Standard	Standard	Standard	Standard	Standard
		nended						
	shifting le	ever outer ing	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
		V-BRAKE	Х	Х	X	X with switch	X	X with switch
		Mechanical disc brake	Х	х	Х	X with switch	Х	X with switch
		(MTB)	Υ .		, and the second	A with switten	^	A William Switch
		Mechanical disc brake (Road)	-	-	-	-	-	-
	Compat-	Caliper (SLR-EV)		-	-	-	-	-
	ible brake type	Caliper (NEW			-	-	-	-
		Caliper (SUPER SLR)		-	-	X with switch	-	X with switch
		Cantilever			-	X with switch	-	X with switch
		brake Roller		_	_	X with switch	_	X with switch
Brake lever	Recom-	brake V-BRAKE	-	_	-	SM-PM40	-	SM-PM40
	mended POWER MODULA-	Mechanical disc brake		-	-	SM-PM50	-	SM-PM50
	TOR	(MTB)						
		Open clamp band	-	-	-	-	-	-
		imper stop	X 2	X	X	X 4	X	X 4
		e (Finger) ible type	T-type	2 T-type	2 T-type	T-type	2 T-type	T-type
		adjuster	-	-	r-type -	r-type -	r-type -	1-type -
		WAVE	-	-	-	-	-	-
	Reach	adjust	Х	Х	Х	Х	X	Х
		adjust	X	X	X	X	X	X
		just type	Two hand	Two hand	Two hand	Two hand	Two hand	Two hand
	Brake lever	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
	1	Material	Alluminum	Alluminum	Aluminum	Aluminum	Aluminum	Aluminum
Bracket	Bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
DIALKEL	Clamp	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
Ā .	bolt	Finish	-	-	Zinc plated	Zinc plated	Zinc plated	Zinc plated
	ge weight Jote			-	-	*V-BRAKE and Mechanical Disc Brake must be used with POWER MODULATOR. *INTER-M Compatible	-	*V-BRAKE and Mechanical Disc Brake must be used with POWER MODULATOR. *INTER-M Compatib

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Shifting/Brake Lever

Se	eries		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
	del no.		ST-EF65-7R2	ST-EF65-7R4	ST-EF65-L2	ST-EF65-L4	ST-M310-8R2	ST-M310-L2
Color		1	Black	Black	Black	Black	Black	Black
20101	+	2	Silver	Silver	Silver	Silver	Silver	Silver
		r type	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS 3	EZ FIRE PLUS 3	RAPIDFIRE PLUS	RAPIDFIRE PLUS 3
		speeds speeds	7	7	-	-	- 8	-
		le RD Type	MTB 7-speed RD	MTB 7-speed RD	-	-	MTB 8-speed RD	-
		on adjust	-	-	-	-	-	-
	SL cable	e adjust	Х	Х	Х	Х	Х	Х
		converter	-	-	-	-	-	-
		tiple shifts /er / rear)	3	3	-	-	3	-
	(Walli lev	MULTI	_	_	_	_	_	-
	Release	RELEASE INSTANT	-	-	_	-	-	_
	function	RELEASE 2WAY-	-	-	-	_	-	-
		RELEASE	V	V	V	V	A.V.	V
Shifting lever	OPTICAL	With With	X	X	X	Х	X	X
	GEAR DISPLAY	(removable)	-	-	-		-	-
		Without	-	-	-	-	-	-
	Multi-E constr	Bearing ruction	-	-	-	-		-
	Main	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	lever body	Finish	-	-			-	-
	Release	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	lever body	Finish	-	-			-	-
	Shifting	Material	Steel	Steel	Steel	Steel	Steel	Steel
	lever	Finish	Standard	Standard	Standard	Standard	Standard	Standard
	cable	mended	Standard	Standard	Standard	Standard	Standard	Standard
	shifting le	ever outer sing	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
	1	V-BRAKE	Х	X with switch	Х	X with switch	Х	Х
		Mechanical disc brake	Х	X with switch	Х	X with switch	Х	Х
		(MTB) Mechanical disc brake	-	-		-	-	-
	Compat-	(Road) Caliper		-	-	-	-	-
	ible brake type	(SLR-EV) Caliper (NEW			-	-	-	-
		SUPER SLR) Caliper		X with switch	_	X with switch	_	_
		(SUPER SLR) Cantilever			-		-	-
		brake Roller		X with switch	-	X with switch	•	-
Brake lever	Page	brake		X with switch	-	X with switch	-	-
	Recom- mended POWER MODULA-	V-BRAKE Mechanical disc brake		SM-PM40 SM-PM50	-	SM-PM40 SM-PM50	-	-
	TOR Clamp	(MTB) Open	-	-	-	-	-	-
		clamp band						
		umper stop e (Finger)	X 2	X 4	X 2	X 4	2	2
		ble type	T-type	T-type	T-type	T-type	T-type	T-type
		adjuster	-	-	-	-	-	
		OWAVE	-	-	-	-	-	-
		adjust	X	X	X	X	X	X
		adjust just type	X Two hand	X Two hand	X Two hand	X Two hand	X Two hand	X Two hand
	Brake	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	lever	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Bracket		Finish	Painted	Painted	Painted	Painted	Painted	Painted
-	Clamp bolt	Material	Steel	Steel	Steel	Steel Zinc plated	Steel	Steel
Δveran		Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight Note		-	*V-BRAKE and Mechanical Disc Brake must be used with POWER MODULATOR. *INTER-M Compatible		*V-BRAKE and Mechanical Disc Brake must be used with POWER MODULATOR. *INTER-M Compatible	-	-	

RD

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ВВ

НВ

НВ

Shifting/Brake Lever

Se	eries		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
	del no.		ST-EF510-9R2A	ST-EF510-8R2A	ST-EF510-8R4A	ST-EF510-7R2A	ST-EF510-7R4A	ST-EF510-L2A
Color		1	Black	Black	Black	Black	Black	Black
Color	7	2	Silver	Silver	Silver	Silver	Silver	Silver
	Shifte		EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
	Front		-	-	-	-	-	3
	Rear s		9 MTD 0 speed BD	MTD 9 speed DD	8 MTD 9 speed DD	7 MTB 7-speed RD	7	-
		le RD Type on adjust	MTB 9-speed RD	MTB 8-speed RD	MTB 8-speed RD	WITE 7-speed RD	MTB 7-speed RD	-
		e adjust	-	-	-	-	-	X
		converter	-	-	_	-	-	-
		tiple shifts	2	2	2	2	2	
	(Main lev	er / rear)	3	3	3	3	3	-
		MULTI	.	-	-	-	-	-
	Release	RELEASE INSTANT						
	function	RELEASE	-	-	-	-	-	-
		2WAY- RELEASE	-	-	-	-	-	-
Chifting lavor	OPTICAL	With	Х	Х	Х	Х	X	Х
Shifting lever	OPTICAL GEAR	With	_	_	_	A 1		_
	DISPLAY	(removable)	-	-	-			-
		Without	-	-	-	-	·	-
	Multi-E constr		-	-	-	-		-
	Main	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	lever			itesiii & steel	Mesin & steel	ICSIII & SECT	neam & aceci	nesiii & steel
	body	Finish	-	-			-	-
	Release	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	lever body	Finish	-	-			-	-
	Shifting	Material	Steel	Steel	Steel	Steel	Steel	Steel
	lever				Standard		Standard	
	cable	Finish	Standard	Standard	Standard	Standard	Standard	Standard
		nended	OT CD40	OT CD40	OT SD40	OT SD40	OT CD40	OT CD40
	cas	ever outer ina	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
	1	V-BRAKE	Х	X	X with switch*	X	X with switch*	Х
		Mechanical						
		disc brake	Х	Х	X with switch*	Χ	X with switch*	X
		(MTB)						
		Mechanical disc brake	_	_		_	_	_
		(Road)						
	Compat-	Caliper			_	_	_	_
	ible brake	(SLR-EV)						
	type	Caliper (NEW			_		_	
		SUPER SLR)			-	-	-	-
		Caliper			Vishissh	_	X with switch	
		(SUPER SLR)		_	X with switch	<u>-</u>	A WITH SWITCH	<u> </u>
		Cantilever		_	X with switch	-	X with switch	-
		brake						
		Roller brake	-	-	X with switch	-	X with switch	-
Brake lever	Recom-	V-BRAKE	-	-	SM-PM40	-	SM-PM40	-
	mended	Mechanical						
	POWER MODULA-	disc brake		-	SM-PM50	-	SM-PM50	-
	TOR	(MTB)						
	Clamp	Open	_			_		_
	band	clamp band	-	-	-	-	-	-
		ımper stop	-	-	-	-	-	-
		e (Finger)	2	2	4	2	4	2
	Brake ca		T-type	T-type	T-type	T-type	T-type	T-type
		adjuster	-	-	-	-	-	-
)WAVE adjust	X	- X	X	X	X	- X
		adjust	X	X	X	X	X	X
		just type	Two hand	Two hand	Two hand	Two hand	Two hand	Two hand
	Brake	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
		Finish	Painted	Painted	Painted	Painted	Painted	Painted
	lever		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	1	Material			Painted	Painted	Painted	Painted
	lever Bracket	Material Finish	Painted	Painted				
Bracket	1		Painted Steel	Steel	Steel	Steel	Steel	Steel
Bracket	Bracket	Finish						Steel Plated
	Bracket Clamp	Finish Material	Steel	Steel	Steel Plated -	Steel	Steel Plated -	
Averag	Bracket Clamp bolt	Finish Material	Steel Plated	Steel Plated	Steel Plated	Steel Plated	Steel Plated	Plated

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Shifting/Brake Lever

	eries		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mod	lel no.	_	ST-EF510-L4A	ST-EF500-8R2A	ST-EF500-8R4A	ST-EF500-7R2A	ST-EF500-7R4A	ST-EF500-L2A
Color		2	Black	Black -	Black -	Black -	Black -	Black -
	Shifte		Silver EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
		speeds	3	-	-	-	-	3
	Rears		-	8	8	7	7	-
		le RD Type	-	MTB 8-speed RD	MTB 8-speed RD	MTB 7-speed RD	MTB 7-speed RD	-
	SL position	on adjust	-	-	-	-	-	-
	SL cable	e adjust	X	-	-	-	-	X
		converter	-	-	-	-	-	-
		tiple shifts ver / rear)	-	3	3	3	3	-
	(Widin lev	MULTI						
		RELEASE	-	-	-	-	-	-
	Release	INSTANT	-	-	-	-	_	-
	function	RELEASE						
		2WAY- RELEASE	-	-	-	-	-	-
		With	Х	Х	Х	Х	X	Х
Shifting lever	OPTICAL GEAR	With	_		_		7.	
	DISPLAY (removal	(removable)		-				-
		Without	-	-	-	-	-	-
	Multi-E constr	Bearing ruction	-	-	-	-		-
	Main	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	lever	Finish		2. 2001				2. 2.001
	body		B : 00	D 1 0 0			D 1 0 0 1	D 1 0 0
	Release lever	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	body	Finish	-	-			-	-
	Shifting	Material	Steel	Steel	Steel	Steel	Steel	Steel
	lever	Finish	Standard	Standard	Standard	Standard	Standard	Standard
	cable	nended						
	shifting le	ever outer	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
	cas	V-BRAKE	X with switch*	X	X with switch*	X	X with switch*	X
		Mechanical	A WIGH SWITCH	A	A With switch	Α	A WICH SWILCH	Λ
		disc brake (MTB)	X with switch*	Х	X with switch*	Х	X with switch*	X
		Mechanical disc brake (Road)	-	-	-	-	-	-
	Compat- ible brake	Caliper (SLR-EV)		-	-	-	-	-
	type	Caliper (NEW SUPER SLR)			-	-	-	-
		Caliper (SUPER SLR)	X with switch	-	X with switch	-	X with switch	-
		Cantilever brake	X with switch		X with switch	-	X with switch	-
		Roller brake	X with switch	-	X with switch	-	X with switch	-
Brake lever	Recom-	V-BRAKE	SM-PM40	-	SM-PM40	-	SM-PM40	-
	mended POWER MODULA- TOR	Mechanical disc brake (MTB)	SM-PM50	-	SM-PM50	-	SM-PM50	-
	Clamp	Open clamp band	-	-	-	-	-	-
	$\overline{}$	ımper stop	-	-	-	-	-	-
	Lever size	e (Finger)	4	2	4	2	4	2
		ble type	T-type	T-type	T-type	T-type	T-type	T-type
	Power a		-	-	-	-	-	-
		WAVE	- X	- X	- X	- X	- X	- X
		adjust adjust	X	X	X	X	X	X
		just type	Two hand	Two hand	Two hand	Two hand	Two hand	Two hand
	Brake	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	lever	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Bracket	Diacket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
2.0000	Clamp	Material	Steel	Steel	Steel	Steel	Steel	Steel
A	bolt	Finish	Plated	Plated	Plated	Plated	Plated -	Plated
Averag	e weight		- * POWER	-	* POWER	-	* POWER	-
N	lote		MODULATOR must be used for front brake		MODULATOR must be used for front brake		MODULATOR must be used for front brake	

RD

FD

SMCR

ВВ

НВ

НВ

Shifting/Brake Lever

Se	eries		SHIMANO	TOURNEY TX	TOURNEY TX	SHIMANO	SHIMANO	SHIMANO
	Series Model no.		ST-EF500-L4A	ST-TX800-8R	ST-TX800-L	ST-EF41-7R	ST-EF41-6R	ST-EF41-L
Color		1	Black	Black	Black	Black	Black	Black
Color	7	2	-	Silver	Silver	-	-	-
		r type	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
		speeds	3	-	3	- 7	-	3
		peeds le RD Type	-	8 MTB 8-speed RD	-	7 MTB 7-speed RD	6 MTB 6-speed RD	-
		on adjust	-		-	WITE 7-speed RD		-
		e adjust	Х	-	X	-	-	Х
		converter	-	-	-	-	-	-
		tiple shifts	-	3	-	3	3	-
	(Main lev	ver / rear) MULTI		-		-	-	
		RELEASE	-	-	-	-	-	-
	Release function	INSTANT RELEASE	-	-	-	-	-	-
		2WAY- RELEASE	-	-	-	-	-	-
Shifting lever	OPTICAL	With	Х	X	X	Х	X	Х
Jimang level	GEAR	With	-	-	-			-
	DISPLAY	(removable) Without	_	_	-		-	-
	Multi-F	Bearing	-	-	-			
	constr		-	-	-	-		-
	Main	Material	Resin & Steel	Resin	Resin	Resin	Resin	Resin
	lever body	Finish	-	-	-		-	-
	Release	Material	Resin & Steel	Resin	Resin	Resin	Resin	Resin
	lever	Finish	-	-			-	-
	body				Stort .	Stort .		
	Shifting lever	Material	Steel	Steel	Steel	Steel	Steel	Steel
	cable	Finish	Standard	Standard	Standard	Standard	Standard	Standard
		mended	07.5240	OT 615 40	OT CICAO	OT CICAO	OT 51540	OT CICAD
	shifting le	ever outer ina	OT-SP40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
1	1	V-BRAKE	X with switch*	Х	Х	X	Х	Х
		Mechanical disc brake (MTB)	X with switch*	х	х	х	х	х
		Mechanical disc brake	-	-	-	-	-	-
	Compat-	(Road) Caliper (SLR-EV)		-	-	-	-	-
	ible brake type	Caliper (NEW			-	-	-	-
		Caliper	X with switch	-	-	-	-	-
		(SUPER SLR) Cantilever brake	X with switch		-	-	-	-
		Roller						
Brake lever		brake	X with switch		-	-	-	-
DIGAE IEVEI	Recom-	V-BRAKE	SM-PM40		-	-	-	-
	mended POWER MODULA- TOR	Mechanical disc brake (MTB)	SM-PM50	-	-	-	-	-
	Clamp	Open						
	band	clamp band	-	-	-	-	-	-
	-	imper stop	-	-	-	-	-	-
		e (Finger)	4 T to a s	2	2	2	2	2
		ble type adjuster	T-type -	T-type -	T-type -	T-type -	T-type -	T-type -
		WAVE	-	-	-	-	-	-
		adjust	Х	X	X	X	X	Х
		adjust	Х	Х	Х	Х	Х	Х
	Cable ad	just type	Two hand	Two hand	Two hand	Two hand	Two hand	Two hand
	Brake	Material	Aluminum	Steel/Resin	Steel/Resin	Steel/Resin	Steel/Resin	Steel/Resin
	lever	Finish	Painted	-	-	-	-	-
	Bracket	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
Bracket	Clamp	Finish Material	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel
	Clamp bolt	Finish	Plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Averag	je weight		-	-	-	-	-	-
	lote		* POWER MODULATOR must be used for front brake					

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Pulley cage	DEORE XT RD-M8000-SGS SGS Series color - 11 HG-X11 - X - X	RD-M820-SS	RD-M986-SGS SGS Series color - 10 HG-X 10-speed - X	RD-M986-GS GS Series color - 10 HG-X 10-speed	GS Series color	RD-M9000-SGS		Mode
Pulley rage	SGS Series color	SS Series color - 10 HG-X 10-speed - X - X	SGS Series color - 10 HG-X 10-speed - X	GS Series color - 10 HG-X 10-speed -	GS Series color -			
Color	Series color	Series color - 10 HG-X 10-speed - X - X	Series color - 10 HG-X 10-speed - X	Series color - 10 HG-X 10-speed -	Series color	כטכ		Pulley
Color 2	- 11 HG-X11 - X - X - X	- 10 HG-X 10-speed - X X	- 10 HG-X 10-speed - X	- 10 HG-X 10-speed	-	6		
Rear speeds	11 HG-X11 - X - X - X	10 HG-X 10-speed - X X	10 HG-X 10-speed - X	10 HG-X 10-speed				Color
Top-Normal spring SHIMANO SHADOW Top-Normal spring Sealed Bearing Sealed Searing Sealed Bearing Sealed Bearing Sealed Searing Sealed Bearing Sealed Bea	HG-X11 - X - X X - - - - - - -	HG-X 10-speed - X - X	HG-X 10-speed - X -	HG-X 10-speed	11			
SHIMANO SHADOW SHADOW SHADOW SHIMANO SHADOW SHA	- X - X X X*	- X - X	- X	-	110 1/44		•	
Top-Normal spring SHIMANO SHADOW RD+	X - X X X*	x - x	X -		HG-X11	HG-X11		Compati
	- X X* - -	- X	-	Х	-	-		
Double servo	- X X* - -	- X	-	X				
Direct attachment (Conventional)	X X* - -	х			X	X		type
	X*		х	-	-	-	Double servo	
Conventional	X*		^	v	v	v		
Mount Compatible X	-	- X*		^	^	^		
Riveted adapter (Road type)	-	-	X*	X*	X*	X*		
Riveted adapter Riveted ad	-	-					·	Mount
Riveted adapter (BMX-Track type)	-		-	-	-	-		
Mode converter	-							
Cable adjuster			-	-	-	-		
Max. front difference		Х	4	-	-	-	onverter	Mode co
Total capacity	-	- 4	-	-	-	-	djuster	Cable a
Total capacity	18T	Single	18T	18T	10T	18T	difference	Max. front
Low sprocket	47T	25T	41T	35T	37T	45T	apacity	Total c
Low sprocket Max. Min. Min. Min. Min. Min. Min. Min. Max. Min. 10T(3x11-speed)				42T(2v11_spand)				
Min. 40T 40T 32T 32T 23T Top sprocket Max. 11T 11T 11T 11T 11T 12T Fluoric coated link bushings 4 4 4 4 5 5 G pulley bearing Sealed Bearing Sealed Bearing Sealed Bearing Sealed Bearing T pulley bearing Sealed Bear	12T(2x11-speed)	28/36T	36T	36T			Max.	Low sprocket
Top sprocket Max. Min. Fluoric coated link bushings A A A A A A Brunic coated link bushings A A A A A Bolley bearing To pulley bearing Sealed Bearing	16T(1x11-speed)	227		-				2011 Sprocket
Top sprocket Min.	40T				-			
Fluoric coated link bushings 4 4 4 4 4 5 5	11T							Top sprocket
Pulley P	11T							FI
Pulley Pulley T pulley bearing Teeth T pulley bearing Sealed Bearing T pulley bearing Sealed Bearing Stainless steel Stainless steel Stainless steel Stainless steel Stainless steel Painted Anodized A	4							Fluoric coated
Pulley Teeth	Sealed Bearing							
Bolts material Stainless steel Stainless s	Sealed Bearing			_				
Sunken type pulley bolt X	11T							Pulley
Bracket Bracket Material Aluminum Bracket body Bracket body P-Axle Material Anodized An	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel		
Bracket Material Aluminum	X	X	X	X	Х	Х		
Bracket Finish Anodized Anodized Anodized Painted	Aluminum	Δluminum	Δluminum	Aluminum	Aluminum	Aluminum		
B-Axle Hollow axle X	Painted							Bracket
B-Axle Material Aluminum Stainless steel Stainless steel Stainless steel Stainless steel Stainless steel Anodized Anodiz	X							
Finish Anodized Anodized Anodized Anodized Anodized Anodized B-Axle 2	Stainless steel			_				B-Axle
B-Axle 2 Hollow axle	-							
B-Axle 2 Material Aluminum Aluminum Stainless steel Stainless steel Finish Anodized Anodized	Х							
Finish Anodized Anodized	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Aluminum	Aluminum	Material	B-Axle 2
P-Axle Finish Anodized Anodized Anodized Painted	-	-	-	-	Anodized	Anodized	Finish	
P-Axle P-Axle Plate body Pinish Painted Pinish Painted	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Material	
P-Axle Material Steel	Painted	Painted	Anodized	Anodized	Anodized	Anodized	Finish	Bracket body
Plate body Plate body Plate body Material CFRP CFRP CFRP CFRP CFRP CFRP Aluminum Finish Painted	Steel			6. 1				
Plate body Finish Painted Painted Painted Painted Painted Outer link Material Aluminum Aluminum Aluminum Aluminum Aluminum	-	Steel		Steel		-	Finish	DA I
Painted Painte		Steel -	-	Steel -	-		1 1111311	P-Axle
1 Outer link	GFRP	-	-	-	- CFRP	CFRP		
Finish Anodized Anodized Anodized Anodized Painted	GFRP -	- Aluminum	- CFRP	- CFRP			Material	
	GFRP - Aluminum	- Aluminum Painted	- CFRP Painted	- CFRP Painted	Painted	Painted	Material Finish	Plate body
Inner link Material Aluminum Aluminum Aluminum Aluminum Aluminum Aluminum	-	- Aluminum Painted Aluminum	- CFRP Painted Aluminum	- CFRP Painted Aluminum	Painted Aluminum	Painted Aluminum	Material Finish Material	Plate body
Finish Anodized Anodized Anodized Painted	- Aluminum	- Aluminum Painted Aluminum Painted	CFRP Painted Aluminum Anodized	CFRP Painted Aluminum Anodized	Painted Aluminum Anodized Aluminum	Painted Aluminum Anodized	Material Finish Material Finish	Plate body Outer link
Outer plate Material CFRP CFRP CFRP CFRP Aluminum	- Aluminum Painted Aluminum Painted	- Aluminum Painted Aluminum Painted Aluminum	CFRP Painted Aluminum Anodized Aluminum Anodized Aluminum Anodized	- CFRP Painted Aluminum Anodized Aluminum Anodized	Painted Aluminum Anodized Aluminum Anodized	Painted Aluminum Anodized Aluminum Anodized	Material Finish Material Finish Material Finish	Plate body
· Finish Painted Painted Painted Painted Painted	- Aluminum Painted Aluminum Painted Aluminum	- Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP	Painted Aluminum Anodized Aluminum Anodized CFRP	Painted Aluminum Anodized Aluminum Anodized CFRP	Material Finish Material Finish Material Finish Material Finish Material	Plate body Outer link
Inner plate Material Aluminum Aluminum Aluminum Aluminum Aluminum Aluminum	- Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted	Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted	Painted Aluminum Anodized Aluminum Anodized CFRP Painted	Painted Aluminum Anodized Aluminum Anodized CFRP Painted	Material Finish Material Finish Material Finish Material Finish Material Finish	Plate body Outer link
· Finish Anodized Anodized Anodized Painted	Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum	Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Aluminum	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum	Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum	Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum	Material Finish Material Finish Material Finish Material Finish Material Finish Material	Plate body Outer link Inner link Outer plate
Cable tixing Bolt	Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted	Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized	Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized	Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized	Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Plate body Outer link
- Finish Black Black Black Black Black	Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum	Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Stainless steel	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel	Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel	Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel	Material Finish	Plate body Outer link Inner link Outer plate Inner plate
	Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Stainless steel	Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Stainted Stainless steel Black	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black	Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black	Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black	Material Finish	Plate body Outer link Inner link Outer plate Inner plate Cable fixing Bolt
	- Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Stainless steel - Steel	Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Stainted Stainless steel Black Steel	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black Aluminum	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black Aluminum	Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black Aluminum	Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black Aluminum	Material Finish	Plate body Outer link Inner link Outer plate Inner plate Cable fixing Bolt Stroke Adjusting
	Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Stainless steel	Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Stainless steel Black Steel Plated	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black	Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black	Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black	Material Finish	Plate body Outer link Inner link Outer plate Inner plate Cable fixing Bolt
Note *w/o bracket spec available for	- Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Stainless steel - Steel	Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Painted Aluminum Stainted Stainless steel Black Steel	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black Aluminum Anodized	CFRP Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black Aluminum Anodized	Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black Aluminum Anodized	Painted Aluminum Anodized Aluminum Anodized CFRP Painted Aluminum Anodized Stainless steel Black Aluminum Anodized	Material Finish	Plate body Outer link Inner link Outer plate Inner plate Cable fixing Bolt Stroke Adjusting Screw

Ser	ies	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Mode	el no.	RD-M8000-GS	RD-M781-GS	RD-M781-SGS	RD-M786-GS	RD-M786-SGS	RD-M772-GS
Pulley	cage	GS	GS	SGS	GS	SGS	GS
Color	1	Series color	Silver	Silver	Silver	Silver	Series color
Color	2	-	Black	Black	Black	Black	-
Rear s	peeds	11	10	10	10	10	9
Compatil	ole chain	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed
- n	SHIMANO SHADOW RD	-	Х	Х	-	-	Х
Top-Normal spring type	SHIMANO SHADOW RD+	Х	-	-	X	Х	-
	Double servo	-	-	-	-	-	-
	Direct attachment (Conventional)	Х	Х	Х	Х	Х	Х
Mount	Direct mount compatible	X*	X*	X*	X*	X*	-
Mount	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-		-
Mode co	onverter	-	-	-		-	-
Cable a	djuster	-	-	-	-	-	-
Max. front	difference	10T	18T	22T	18T	22T	22T
Total ca	apacity	39T	35T	43T	35T	43T	35T
Low sprocket	Max.	42T(2x11-speed) 46T(1x11-speed)	36T	36T	36T	36T	36T
	Min.	40T	32T	32T	32T	32T	32T
Top sprocket	Max.	11T	11T	11T	11T	11T	11T
Top sprocket	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated	link bushings	4	4	4	4	4	4
	G pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	-
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
Pulley	Teeth	11T	111	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	Х	Х	х	х	Х	Х
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
2.44.64	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Hollow axle	X	X	X	X	X	X
B-Axle	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
	Hollow axle	X	-	-	-	-	-
B-Axle 2	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	- Alverting	Aluminum	- A l	- Al.,	- Al	- A l
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish Material	Painted	Painted	Painted	Painted	Painted	Painted
P-Axle	Material Finish	Steel -	Steel	Steel	Steel	Steel	Steel
	Material	GFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Plate body	Finish	GFRP	Painted	Painted	Painted	Painted	Painted
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer link	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	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing Bolt	Material Finish	Stainless steel -	Stainless steel -	Stainless steel -	Stainless steel	Stainless steel	Stainless steel -
Stroke Adjusting	Material	Steel	Steel	Steel	Steel	Steel	Steel
Screw	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average w	reight (pc)	271 g	234 g	238 g	262 g	266 g	227 g
No	te	*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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Ser	ies	DEORE XT	DEORE XT	DEORE XT	SLX	SLX	SLX
Mode	el no.	RD-M772-SGS	RD-M771-GS	RD-M771-SGS	RD-M7000-11-GS	RD-M7000-10-SGS	RD-M670-GS
Pulley	cage	SGS	GS	SGS	GS	SGS	GS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Rear s	peeds	9	9	9	11	10	10
Compatil		HG 9-speed	HG 9-speed	HG 9-speed	HG-X11	HG-X	HG-X 10-speed
	SHIMANO SHADOW RD	Х	-	-	-	-	X
Top-Normal spring type	SHIMANO SHADOW RD+	-	-	-	Х	Х	-
	Double servo	-	Х	Х	-	-	-
	Direct attachment (Conventional)	Х	Х	Х	Х	Х	Х
Mount	Direct mount compatible	-	-	-	X*	X*	X*
Mount	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-		-
Mode co	onverter	-	-	-		-	-
Cable a	djuster	-	-	-	-	-	-
Max. front	difference	22T	22T	22T	10T	22T	18T
Total ca	pacity	45T	35T	45T	41T	43T	35T
Low sprocket	Max.	36T	34T	34T	42T(2x11-speed) 46T(1x11-speed)	36T	36T
	Min.	32T	32T	32T	40T	32T	32T
To a source dead	Max.	11T	11T	11T	11T	11T	11T
Top sprocket	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated	link bushings	4	4	4	4	2	3
	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	-	-	-
Pulley	Teeth	11T	11T	11T	11T	11T	11T
rulley	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	Х	Х	Х	х	Х	Х
Dunalisat	Material	Steel	-	-	Steel	Steel	Steel
Bracket	Finish	Painted	-	-	Painted	Painted	Painted
	Hollow axle	Х	Х	Х	Х	Х	Х
B-Axle	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
	Hollow axle	-	-	-	X	Χ	-
B-Axle 2	Material	Stainless steel		-	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Diacket body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
I-AAIC	Finish	-	<u>-</u>	-	-	-	-
Plate body	Material	Aluminum	Aluminum	Aluminum	GFRP	Aluminum	Aluminum
. rate body	Finish	Painted	Painted	Painted	-	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Materi <mark>al</mark> Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted	Steel Painted	Aluminum Painted	Aluminum Painted
Cable fixing Bolt	Material Finish	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Camples A.P. (1997)	Material	Steel	Steel	Steel	Steel	Steel	Steel
Stroke Adjusting Screw	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average w		229 g	228 g	238 g	323 g	313 g	278 g
		223 Y	220 y	230 y	*w/o bracket spec	*w/o bracket spec	*w/o bracket spec
No	te				*w/o bracket spec available	available	*W/O bracket spec available

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Rear Derailleur

Ser	ies	SLX	ZEE	DEORE	DEORE	DEORE	DEORE
Mode	el no.	RD-M670-SGS	RD-M640-SS	RD-M6000-GS	RD-M6000-SGS	RD-M610-GS	RD-M610-SGS
Pulley	cage	SGS	SS	GS	SGS	GS	SGS
	1	Series color	Series color	Series Black	Series Black	Black	Black
Color	2	-	-	-	-	Silver	Silver
Rear s		10	10	10	10	10	10
Compatil		HG-X 10-speed	HG-X 10-speed	HG-X 10speed	HG-X 10speed	HG-X 10-speed	HG-X 10-speed
Compani	SHIMANO SHADOW		Tra X To speed	nd x rospecu	nd x rospecu	•	
Top-Normal spring	RD	Х	-	-	-	Х	X
type	SHIMANO SHADOW RD+	-	Х	Х	Х	-	-
	Double servo	-	-	-	-	-	-
	Direct attachment (Conventional)	Х	Х	Х	Х	Х	Х
	Direct mount compatible	X*	Х	X*	X*	X*	X*
Mount	Riveted adapter (Road type)	-	-	-		-	-
	Riveted adapter (BMX-Track type)	-	-	-	-		-
Mode co		-	_*				-
Cable a		-	_	-	-		-
Max. front	•	22T	Single	10T	22T	18T	22T
		43T	25T	41T	43T	35T	43T
Total ca	apacity	451	36T(Freeride spec)	411	451	331	451
Low sprocket	Max.	36T	28T(DH spec)	42T	36T	36T	36T
	Min.	32T	23T	42T	32T	32T	32T
Top sprocket	Max.	11T	12T	11T	11T	11T	11T
тор зргоскес	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated	link bushings	3	3	4	3	3	3
	G pulley bearing	-	-	-	-	=	=
	T pulley bearing	-	-	-	-	-	-
B. II.	Teeth	11T	1 <u>1T</u>	11T	11T	11T	11T
Pulley	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	Х	Х	Х	Х	Х	Х
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Hollow axle	X	X	X	X	X	X
B-Axle	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
D-Axie				Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-
	Hollow axle	-	-	X	X	X	X
B-Axle 2	Material Finish	Stainless steel	Stainless steel -				
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Bracket body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
P-Axle	Finish	-	-	Painted	-	-	-
	Material	Aluminum	Aluminum	GFRP	Aluminum	Aluminum	Aluminum
Plate body	Finish	Painted	Painted	UINF	Painted	Painted	Painted
	Material	Aluminum	Aluminum	Aluminum	Aluminum		Aluminum
Outer link	Finish	Painted	Painted	Painted	Painted	Aluminum Painted	
							Painted
Inner link	Material	Steel	Steel	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Aluminum	Steel	Steel	Steel	Steel
•	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
- p	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing Bolt	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
	Finish	-	-	Plated	Plated	Plated	Plated
Stroke Adjusting	Material	Steel	Steel	Steel	Steel	Steel	Steel
Screw	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average w	veight (pc)	281 g	275 g	-	-	-	-
	te	*w/o bracket spec	*Freeride spec and	*w/o bracket spec	*w/o bracket spec	*w/o bracket spec	*w/o bracket spec

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Ser	ries	DEORE	DEORE	ALIVIO	ACERA	ALTUS	ALTUS
Mode	el no.	RD-M592-SGS	RD-M591-SGS	RD-M4000	RD-M3000	RD-M2000	RD-M370-SGS
Pulley	r cage	SGS	SGS	SGS	SGS	SGS	SGS
	1	Series color	Silver	Series color	Series color	Series color	Black
Color	2	-	Black	-	-	-	Silver
Rear s	peeds	9	9	9	9	9	9
Compatil	ble chain	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
	SHIMANO SHADOW RD	Х	-	Х	X	X	-
Top-Normal spring type	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	-	Х	-	-	-	X
	Direct attachment (Conventional)	Х	Х	X	Х	X	X
Mount	Direct mount compatible	-	-	X*	X*		=
Wount	Riveted adapter (Road type)	-	-	-	-	-	-
ı	Riveted adapter (BMX-Track type)	-	-	-	-		-
Mode co	onverter	-	-	-		V	-
Cable a		-	-	X	X	X	X
Max. front	difference	22T	22T	22T	22T	22T	22T
Total ca	apacity	45T	45T	45T	45T	45T	45T
Low sprocket	Max.	36T	34T	36T	36T	36T	34T
LOW Sprocket	Min.	32T	28T	32T	32T	32T	28T
Top sprocket	Max.	12T	12T	12T	12T	12T	11T
iop sprocket	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated	link bushings	3	3	2	1	-	-
	G pulley bearing	-	-		-	-	-
	T pulley bearing	-	-	-	-	-	-
Pulley	Teeth	11T	11T	11T	11T	11T	11/11T
runey	Bolts material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel
	Sunken type pulley bolt	Х	X	Х	Х	Х	X (Guide pulley) - (Tension pulley)
Bracket	Material	Steel	-	Steel	Steel	Steel	-
bracket	Finish	Painted	-	Painted	Painted	Painted	-
	Hollow axle	Х	-	Х	X	-	-
B-Axle	Material	Stainless ste <mark>el</mark>	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-		-	-	-
	Hollow axle	-	-	Х	-	-	-
B-Axle 2	Material	Stainless steel	-	Stainless steel	Stainless steel	Stainless steel	-
	Finish			-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Bracket body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
P-Axle	Finish		-	Painted	Painted	Zinc plated	Zinc plated
-1 · · ·	Material	Aluminum	Aluminum	PA-GF	PA-GF	PA-GF	Resin
Plate body	Finish	Painted	Painted	Painted	Painted	-	Painted
	Material	Aluminum	Aluminum	CFRP	PA-GF	PA-GF	Steel
Outer link	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Inner link	Finish	Painted	Painted	Painted	Painted	Zinc plated	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Outer plate	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Inner plate	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Stainless steel	Stainless steel	Stainless steel	Steel
Cable fixing Bolt	Finish	Plated	Plated	-	-	-	Zinc plated
Stroke Adjusting	Material	Steel	Steel	Stainless steel	Steel	Steel	Steel
Stroke Adjusting Screw	Finish	Plated	Plated	-	Zinc plated	Zinc plated	Zinc plated
Average w		-	- Flateu	-	Zinc plateu	- Zinc piated	- Zinc plated
		·	-	* w/o bracket spec	* w/o bracket spec	-	-
No	ote			available	available		

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Rear Derailleur

Ser	ies	ACERA	ALTUS	TOURNEY TX	TOURNEY	TOURNEY	TOURNEY TZ
Model no.		RD-M360-SGS	RD-M310-Smart	RD-TX800	RD-TY500-SGS	RD-TY300-SGS	RD-TZ500-GS
Pulley		SGS	Smart	SGS	SGS	SGS	GS
	1	Black	Black	Black	Series color	Series color	Series color
Color	2	Silver	Silver	Silver	-	-	-
Rear s		8/7	8/7	8/7	7/6	7/6	6
Compatil	·	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 6-speed
	SHIMANO SHADOW	-	-	-	-	-	-
Top-Normal spring type	RD SHIMANO SHADOW	-	-	-	-	-	-
	RD+ Double servo	Х	Х	X	Х	X	-
	Direct attachment (Conventional)	Х	Х	Х	Х	Х	Х
Mount	Direct mount compatible	-	-	-	-	-	-
Widuit	Riveted adapter (Road type)	-	-	-	Х	Х	X
	Riveted adapter (BMX-Track type)	-	-	-	Х	Х	-
Mode co		-	-	-		-	-
Cable a	·	X	X	X	X	X	X
Max. front		20T	20T	20T	20T	20T	20T
Total ca		43T	43T	43T	43T	43T	34T
Low sprocket	Max.	34T	34T	34T	34T	34T	28T
h	Min.	28T	28T	28T	28T	28T	28T
Top sprocket	Max.	14T	14T	14T	14T	14T	14T
	Min.	11T	11T	11T	11T	11T	14T
Fluoric coated	link bushings	1	-	-		-	-
	G pulley bearing	-	-		-	-	-
	T pulley bearing	-	-	-	-	-	-
Pulley	Teeth	13/13T	13/15T	13/13T	13/13T	13/13T	11/11T
	Bolts material	Steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley bolt	-		-	-	-	-
Bracket	Material	-	•	-	-	-	-
2.00.00	Finish	-		-	-	-	-
	Hollow axle	-	-	-	-	-	-
B-Axle	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel
	Finish	-	-	-	Zinc plated	Zinc plated	Black
	Hollow axle	-	-	-	-	-	-
B-Axle 2	Material	-	-	-	-	-	-
	Finish			-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Resin	Resin	Resin	Steel
Diacket Doug	Finish	Painted	Painted	Painted	-	-	Painted
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
r-Axie	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
	Material	Resin	Resin	Resin	Resin	Resin	Resin
Plate body	Finish	- (Black) Painted (Silver)	-	-	-	-	-
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Resin	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	-	Zinc plated	Zinc plated
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
outer plate	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
iiiiei piate	Finish	Zinc plated	Zinc plated	Zinc plated	Painted	Painted	Painted
Cable fixing Bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
Cable lixing bolt	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Stroke Adjusting	Material	Steel	Steel	Steel	Steel	Steel	Steel
Screw	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average w		-	·-	-	-	-	-
No					with wheel type cable guide		

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Sei	ries	TOURNEY	TOURNEY
	el no.	RD-TY21-B-SS	RD-TY21-B-GS
Pulley	/ cage	SS	GS
6.1	1	Black	Black
Color	2	Silver	Silver
Rear s	peeds	6	6
Compati	ble chain	HG-UG 6-speed	HG-UG 6-speed
	SHIMANO SHADOW RD	-	-
Top-Normal spring type	SHIMANO SHADOW RD+	-	-
	Double servo	-	-
	Direct attachment (Conventional)	Х	Х
Mount	Direct mount compatible	-	-
Wount	Riveted adapter (Road type)	Х	Х
	Riveted adapter (BMX-Track type)	•	-
Mode co	onverter	-	-
Cable a	djuster	Х	Х
Max. front	difference	13T	20T
Total c	apacity	28T	34T
	Max.	28T	28T
Low sprocket	Min.	28T	28T
	Max.	14T	14T
Top sprocket	Min.	14T	14T
Fluoric coated	link bushings	-	-
	G pulley bearing	-	-
	T pulley bearing	-	_
	Teeth	11/11T	11/11T
Pulley	Bolts material	Steel	Steel
	Sunken type pulley	31001	Steel
	bolt Material	-	-
Bracket	Finish	-	
		-	
B 4 1	Hollow axle	-	-
B-Axle	Material	Steel	Steel
	Finish	Black	Black
	Hollow axle		
B-Axle 2	Material	•	-
	Finish		
Bracket body	Material	Resin	Resin
	Finish	•	-
P-Axle	Material	Steel	Steel
	Finish	Zinc plated	Zinc plated
Plate body	Material	Resin	Resin
	Finish		-
0	Material	Steel	Steel
Outer link	Finish	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
	Material	Steel	Steel
Inner link	Finish	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
	Material	Steel	Steel
Outer plate	Finish	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
	Material	Steel	Steel
Inner plate	Finish	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
	Material	Steel	Steel
Cable fixing Bolt			
Contract of	Finish Material	Zinc plated	Zinc plated
Stroke Adjusting Screw	Material	Steel	Steel
	Finish	Zinc plated	Zinc plated
	veight (pc)	-	-
No	ote		



Front Derailleur

Series			XTR	XTR	XTR	XTR	XTR	XTR
Model no.			FD-M9000-H	FD-M9000-L	FD-M9000-D	FD-M9000-E	FD-M9020-H	FD-M9020-L
1		Series color	Series color	Series color	Series color	Series color	Series color	
Color		 2	-	-	-	-	-	-
	Front		3	3	3	3	2	2
Speeds Rear		11	11	11	11	11	11	
Compatible chain			HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11
TOP SWING		-	-	-	-	-	-	
Action	Down Swing		-	-	-	-	-	-
	SIDE SWING		Х	Х	Х	Х	х	х
Mount		28.6mm	X (w/ S size adapter)	X (w/ S size adapter)	-	-	X (w/ S size adapter)	X (w/ S size adapter
	Clamp Band	31.8mm	X (w/ M size adapter)	X (w/ M size adapter)	-	-	X (w/ M size adapter)	X (w/ M size adapte
		34.9mm	Х	Х	-	-	х	х
	E-type	With BB Plate	-	-	-	-		-
		Without BB Plate	-	-	-	х	-	-
	Direct Mount		-	-	Х	-	-	-
	Dual-Pull		-	-	-	-		-
Cable route type	Top-Pull exclusive		-	-		·	-	-
	Down-Pull exclusive		-	-	-		-	-
	Front-Pull		Х	Х	Х	Х	Х	х
Chain line (mm)			50	50	50	50	48.8	48.8
Chain stay angle			66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			40T	40T	40T	40T	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 bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		х	Х	х	Х	Х	х	
Angled clamp band design		х	х	-	-	Х	Х	
Link bushings			6	6	6	6	6	6
Front clamp band	Material		Aluminum	Aluminum	-	-	Aluminum	Aluminum
	Fin	ish	Painted	Painted	-	-	Painted	Painted
Rear clamp band, base bracket	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material Finish		Stainless steel	Stainless steel	-	-	Stainless steel	Stainless steel
			-	-	-	-	-	-
BB plate	Material Finish			-	-	-	-	-
			-	-	-	-	-	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin <mark>ish</mark>		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	Aluminum	Aluminum	Aluminum
	Finish		Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating
Cable fixing bolt	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 (pc) (Band type: L size, direct type w/ bolt)			130.0 g	112.0 g	117.0 g	102 g	129 g	111 g
No	ote							

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Ser	ies		XTR	XTR	XTR	XTR	XTR	XTR
Mode	el no.		FD-M9020-D	FD-M9020-E	FD-M9025-H	FD-M9025-L	FD-M9025-D	FD-M9025-E
	•	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	2	-	-	-	-	-	-
	Fro	ont	2	2	2	2	2	2
Speeds	Re	ar	11	11	11	11	11	11
Compati	ble chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11
	TOP S	WING	-	-	-	Х	-	Х
Action	Down	Swing	-	-	х	-	Х	-
	SIDE S	WING	Х	Х	-	-	-	-
		28.6mm	-	-	X (w/ S size adapter)	X (w/ S size adapter)	-	-
	Clamp Band	31.8mm	-	-	X (w/ M size adapter)	X (w/ M size adapter)	-	-
	24.14	34.9mm	-	-	Х	Х	-	-
Mount		With BB Plate	-	-	-	-		-
	E-type	Without BB Plate	-	Х	-	-		х
	Direct Mount		Х	-	-	-	X	-
	Dual	l-Pull	-	-	х	-	X	-
Cable route type	Top-Pull exclusive		-	-	Х	·	Х	-
Cable route type	Down-Pul	l exclusive	-	-	-	Х	-	X
	Fron	t-Pull	X	Х	-	-	-	-
Chain li	ne (mm)		48.8*	48.8*	48.8	48.8	48.8*	48.8*
Chain st	Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth		34-38T	34-38T	34-38T	34-38T	34-38T	34-38T	
Total capacity		10T	10T	10T	10T	10T	10T	
Applicable Top-Mid tooth difference		-		-	-	-	-	
Multi access ca	Multi access cable fixing bolt		-	-	-	-	-	-
Angled strok	e adjust bo	lt	Х	Х	х	Х	Х	Х
Angled clamp	band desig	jn	-	-	Х	Х	-	-
Link bu	ıshings		6	6	8	2	8	2
Front clamp band	Mat	erial	-		Aluminum	Aluminum	-	-
	Fin	ish	-	-	Painted	Painted	-	-
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Mat	erial	-	-	Stainless steel	Stainless steel	-	-
	Fin	ish	-	-	-	-	-	-
BB plate	Mat	erial		-	-	-	-	-
•	_	iish	-	-	-	-	-	-
Outer link		erial	Aluminum	Aluminum	Aluminum	Steel	Aluminum	Steel
		ish	Painted	Painted	Anodized	Painted	Anodized	Painted
Inner link		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
		ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide		erial	Aluminum	Aluminum	Steel	Steel	Steel	Steel
		ish	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating
Cable fixing bolt		erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Fin		-	-	-	-	-	-
Stroke Adjusting Screw		erial	Steel	Steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
		ish	Black	Black	-	-	-	-
Average v (Band type: L size,		w/ bolt)	116 g	102 g	147.2 g	132.9 g	141.3 g	124 g
Note		* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.			* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.	

Color — Speeds — Compatible Action — Mount	1 2 Fro Re- e chain TOP SI Down S	nt ar WING Swing	FD-M8000-H Series color - 3 11 HG-X11 - X X (w/ S size adapter) X (w/ M size adapter)	FD-M8000-L Series color 3 11 HG-X11 - X X (w/ S size adapter)	FD-M8000-D Series color - 3 11 HG-X11 - X	FD-M8000-E Series color - 3 11 HG-X11	FD-M8020-H Series color - 2 11 HG-X11	FD-M8020-L Series color - 2 11 HG-X11
Speeds Compatible	Pro Re: e chain TOP SI Down: SIDE S Clamp Band	mt ar WING Swing WING 28.6mm 31.8mm 34.9mm	- 3 11 HG-X11 X X (w/ S size adapter)	- 3 11 HG-X11 - - X	- 3 11 HG-X11 -	- 3 11 HG-X11	- 2 11 HG-X11	- 2 11 HG-X11
Speeds Compatible	Fro Rei e chain TOP SI Down SIDE S Clamp Band	wing Swing WING 28.6mm 31.8mm	11 HG-X11 X X (w/ S size adapter)	11 HG-X11 - - X	11 HG-X11 -	11 HG-X11	11 HG-X11	11 HG-X11
Compatible Action	Redection Red	WING Swing WING 28.6mm 31.8mm	11 HG-X11 X X (w/ S size adapter)	11 HG-X11 - - X	11 HG-X11 -	11 HG-X11	11 HG-X11	11 HG-X11
Compatible Action	Front Rear TOP SWING Down Swing SIDE SWING Clamp Band Clamp Band Clamp Band Top-Pull Top-Pull exclusive Down-Pull exclusive pown-Pull exclusive apacity d tooth difference ble fixing bolt e adjust bolt band design shings Material Finish	WING Swing WING 28.6mm 31.8mm	HG-X11 X X (w/ S size adapter)	HG-X11 - - X	HG-X11 - -	HG-X11 -	HG-X11	HG-X11
Action	Down SIDE S	Swing WING 28.6mm 31.8mm 34.9mm	- X X (w/ S size adapter)	- - X	-	-		
	SIDE S Clamp Band	Swing WING 28.6mm 31.8mm 34.9mm	X X (w/ S size adapter)		-		-	-
	SIDE S Clamp Band	28.6mm 31.8mm 34.9mm	X (w/ S size adapter)					
Mount	Clamp Band	28.6mm 31.8mm 34.9mm	X (w/ S size adapter)		Х		-	-
Mount	Band .	31.8mm 34.9mm		X (w/ S size adapter)		Х	Х	Х
Mount	Band .	34.9mm	X (w/ M size adapter)		-	-	X (w/ S size adapter)	X (w/ S size adapte
Mount				X (w/ M size adapter)	-	-	X (w/ M size adapter)	X (w/ M size adapte
Mount	E-type	With BB	X	Х	-		X	Х
Wount	E-type	Plate	-	-	-			-
		Without BB Plate	-	-	-	х	-	-
	Direct Mount		-	-	Х			-
			-	-	-			-
	Top-Pull exclusive		-	-	<u> </u>		-	-
Cable route type			-	-			-	-
		-Pull	Х	Х	Х	Х	Х	Х
Chain line	Chain line (mm)		50	50	50	50	48.8	48.8
Chain stay angle			66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			40T	40T	40T	40T	34-38T	34-38T
Total cap			18T	18T	18T	18T	10T	10T
<u>_</u>		erence	10T	10T	10T	10T	-	-
Multi access cable fixing bolt		-		-	-	_	-	
Angled stroke			Х	Х	х	Х	Х	Х
Angled clamp b			х	х	-	-	Х	Х
Link bush	hings		6	6	6	6	6	6
		erial	Aluminum	Aluminum	-	-	Aluminum	Aluminum
Front clamp band	Fini	ish	Painted	Painted	-	-	Painted	Painted
Rear clamp band,	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fini	ish	Painted	Painted	Painted	Painted	Painted	Painted
	Mate	erial	Stainless steel	Stainless steel	-	-	Stainless steel	Stainless steel
Clamp bolt	Fini	ish	-	-	-	-	-	-
	Mate	erial		-	-	-	-	-
BB plate	$\overline{}$			-	-	-	-	-
	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer link	Fini	ish	Painted	Painted	Painted	Painted	Painted	Painted
	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner link	Fini	ish	Painted	Painted	Painted	Painted	Painted	Painted
			Steel	Steel	Steel	Steel	Steel	Steel
Chain guide			Plated	Plated	Plated	Plated	Plated	Plated
			Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cable fixing bolt			-	-	-	-	-	-
Stroke Adjusting			Steel	Steel	Steel	Steel	Steel	Steel
Screw	-		Black	Black	Black	Black	Black	Black
Average wei (Band type: L size, dir	ight (pc)		151 g	135 g	136 g	121 g	145 g	129 g

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Ser	ies		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Mode	el no.		FD-M8020-D	FD-M8020-E	FD-M8025-H	FD-M8025-L	FD-M8025-D	FD-M8025-E
		1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	2	-	-	-	-	-	-
	Fro	ont	2	2	2	2	2	2
Speeds	Re	ear	11	11	11	11	11	11
Compatil	ole chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11
	TOP S	WING	-	-	-	Х	-	Х
Action	Down	Swing	-	-	Х	-	Х	-
	SIDE S	WING	Х	Х	-	-	-	-
		28.6mm	-	-	X (w/ S size adapter)	X (w/ S size adapter)	-	-
	Clamp Band	31.8mm	-	-	X (w/ M size adapter)	X (w/ M size adapter)	-	-
	Danu	34.9mm	-	-	х	X	-	
Mount		With BB Plate	-	-	-	-		-
	E-type	Without BB Plate	-	Х	-		-	Х
	Direct Mount		Х	-	-		х	-
	Dual	l-Pull	-	-	х	-	X	-
	Top-Pull exclusive		-	-	Х		х	-
Cable route type	Down-Pul	l exclusive	-	-		Х	-	Х
	Fron	t-Pull	Х	Х	-	-	-	-
Chain li	ne (mm)		48.8*	48.8*	48.8	48.8	48.8*	48.8*
Chain st	ay angle		66-69	66-69	66-69	66-69	66-69	66-69
Top gea	Top gear teeth		34-38T	34-38T	34-38T	34-38T	34-38T	34-38T
Total capacity		10T	10T	10T	10T	10T	10T	
Applicable Top-Mid tooth difference		-	-	-	-	-	-	
Multi access ca	Multi access cable fixing bolt		-	-	-	-	-	-
Angled strok	e adjust bo	lt	Х	Х	х	Х	Х	Х
Angled clamp	band desig	jn	-	-	Х	Х	-	-
Link bu	ıshings		6	6	8	2	8	2
	Mat	erial		-	Aluminum	Aluminum	-	-
Front clamp band	Fin	ish		-	Painted	Painted	-	-
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
al 1.1.	Mat	erial	-	-	Stainless steel	Stainless steel	-	-
Clamp bolt	Fin	ish		-	Black	Black	-	-
po de	Mat	erial		-				-
BB plate	Fin	ish	-	-	-	-	-	-
Outon link	Mat	erial	Aluminum	Aluminum	Aluminum	Steel	Aluminum	Steel
Outer link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
mner mik	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guida	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide	Fin	ish	Plated	Plated	Plated	Plated	Plated	Plated
Cable fiving balt	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cable fixing bolt	Fin	ish	-		Black	Black	Black	Black
Stroke Adjusting	Mat	erial	Steel	Steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Screw	Fin	ish	Black	Black	-	-	-	-
Average w (Band type: L size, c		w/ bolt)	134 g	120 g	149 g	131 g	139 g	124 g
No	Note		* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.			* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.

Ser	ries		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Mode	el no.		FD-M785	FD-M785-E2	FD-M786	FD-M786-D	FD-M770	FD-M770-E
	1	 I	Black	Black	Black	Black	Series color	Series color
Color			-	-	Silver	Silver	-	-
		ont	2	2	2	2	3	3
Speeds	Re	ar	10	10	10	10	9	9
Compatil		-	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
	TOP S	WING	Х	Х	-	-	Х	X
Action	Down		-	-	X	X	-	-
	SIDE S		-	_	-	-	-	-
	5.223	28.6mm	X (w/ S size adapter)		X (w/ S size adapter)	_	X (w/ S size adapter)	-
	Clamp	31.8mm	X (w/ M size adapter)	_	X (w/ M size adapter)	_	X (w/ M size adapter)	
	Band	34.9mm	X (W/ W/ 3/2C adapter)		X (W/ W/ 3/2C dddptc/)		X X	
Mount		With BB Plate	-	-	-		^	x
	E-type Without BB Plate		-	Х	-			х
	Direct Mount		-	-	-	X	-	-
	Dual	-Pull	Х	Х	х	Х	X	Х
Cable route type	Top-Pull	exclusive	-	-	X	X	-	-
Cable foute type	Down-Pull	l exclusive	-	-	-		-	-
	Front	t-Pull	-	-	-	-	-	-
Chain li	Chain line (mm)		48.8	48.8	48.8	48.8	50	50
Chain st	Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth		38-44T	38-44T	38-44T	38-44T	44/48T	44T	
Total capacity		14T	14T	14T	14T	22T	22T	
Applicable Top-Mid tooth difference		-	-	-	-	12T	12T	
Multi access cable fixing bolt		Х	х	-	-	-	-	
Angled strok	e adjust bol	lt	х	Х	х	Х	Х	Х
Angled clamp	band desig	ın	Х	-	Х	-	Х	-
Link bu	 ıshings		2	2	8	8	2	2
	Mate	erial	Aluminum	-	Aluminum	-	Aluminum	-
Front clamp band	Fin	ish	Painted	-	Painted	-	Painted	-
Rear clamp band,	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
al 1.1.	Mate	erial	Stainless steel	-	Stainless steel	-	Stainless steel	-
Clamp bolt	Fin	ish	-	-	-	-	-	-
DDl4	Mat	erial		-	-	-	-	Aluminum
BB plate	Fin	ish	-	-	-	-	-	Painted
Outor link	Mat	erial	Steel	Steel	Aluminum	Aluminum	Steel	Steel
Outer link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
milei iiik	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain aud-	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide	Finish Material	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fiving half	hain guide Mate	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cable fixing bott	Fin	ish	-	-	-	-	-	-
Stroke Adjusting	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Screw	Fin	ish	-	-	-	-	-	-
Average w (Band type: L size, o	veight (pc) direct type v	w/ bolt)	136 g	127 g	155 g	146 g	152 g	166 g
No	ote		* Outer casing stopper integrated design.				* Outer casing stopper integrated design.	

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Ser	ies		DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX	SLX
Mode			FD-M771	FD-M771-D	FD-M772A	FD-M773	FD-M7000-10-H	FD-M7000-10-L
Wiode	1		Series color	Series color	Series color	Series color	Series color	Series color
Color			Jeries Color	-	-	-	-	-
	Fro		3	3	3	3	3	3
Speeds	Re		9	9	9	9	10	10
Compatil					HG 9-speed			HG-X
Compatil	TOP S	MING	HG 9-speed	HG 9-speed		HG 9-speed	HG-X	- nu-X
Action			X	- V	X -	X	-	-
Action	Down		^	Х	-	_	-	
	SIDE S		-	-	-		X _*	X _*
	Clamp	28.6mm	X (w/ S size adapter)	-	X (w/ S size adapter)	X (w/ S size adapter)		
	Band	31.8mm	X (w/ M size adapter)	-	X (w/ M size adapter)	X (w/ M size adapter)	X (w/ M size adapter)	-
		34.9mm	Х	-	X	Х	X	X
Mount	E-type	With BB Plate	-	-	-	·		-
		Without BB Plate	-	-	-		·	-
	Direct Mount		-	X	-	-	-	-
	Dual	-Pull	Х	X	X (w/ M size adapter)	X (w/ M size adapter)		-
Cable route type	Top-Pull	exclusive	-	-	Х	Х	-	-
cubic route type	Down-Pull exclusi		-	-	-		-	-
			-	-	-	-	Х	Х
Chain li	Chain line (mm)		50	50	50	50	50	50
Chain st	Chain stay angle		66-69	66-69	63-66	66-69	66-69	66-69
Top gea	Top gear teeth		44T	44T	44/48T	44/48T	40-42T	40-42T
Total ca	Total capacity		22T	22T	22T	22T	18T	18T
Applicable Top-Mid tooth difference		12T	12T	12T	12T	10T	10T	
Multi access ca	Multi access cable fixing bolt		-	-	-	-	-	-
Angled strok	e adjust bol	lt	Х	X	-	-	Х	Х
Angled clamp	band desig	ın	Х	-	Х	Х	Х	Х
Link bu	ıshings		8	8	2	7	4	4
Front clamp band	Mate	erial	Aluminum		Aluminum	Aluminum	Aluminum	Aluminum
Tront clamp band	Fin	ish	Painted	-	Painted	Painted	Painted	Painted
Rear clamp band,	Mat	erial	Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	-	Painted	Painted	Painted	Painted
Clamp helt	Mat	erial	Stainless steel	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Clamp bolt	Fin	ish		-	-	-	-	-
DD wlast-	Mat	erial	—	-	-	-	-	-
BB plate	Fin	ish	-	-	-	-	-	-
Outer link	Mat	erial	Aluminum	Aluminum	Steel	Aluminum	GFRP+STEEL	GFRP+STEEL
Outer link	Fin	ish	Painted	Painted	Painted	Painted	-	-
Inner link	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
inner link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain audi-	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide	Fin	ish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Plated	Plated
Cable fiving half	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cable fixing bolt	Fin	ish	-	-	-	-	-	-
Stroke Adjusting	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
Screw	Fin	ish	-	-	-	-	Black	Black
Average w (Band type: L size,	veight (pc) direct type v	w/ bolt)	155 g	147 g	160 g	174 g	152.1 g	136.5 g
No	Note						* S-size adapter is available in OTC package only.	* S-size adapter is available in OTC package only.

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Front Derailleur

Se	ries		SLX	SLX	SLX	SLX	SLX	SLX
Mod	el no.		FD-M7000-10-D	FD-M7000-10-E	FD-M7005-10-H	FD-M7005-10-L	FD-M7005-10-D	FD-M7005-10-I
		1	Series color	Series color	Series color	Series color	Series color	Series color
Color	-	2	-	-	-	-	-	-
	From R R R R R R R R R R R R R R R R R R R	ont	3	3	3	3	3	3
Speeds	Re	ear	10	10	10	10	10	10
Compati	ble chain		HG-X	HG-X	HG-X	HG-X	HG-X	HG-X
	TOP S	WING	-	-	-	Х	-	Х
Action	Down	Swing	-	-	Х	-	Х	-
	SIDE S	WING	Х	х	-	-	-	-
		28.6mm	-	-	_*	_*	-	-
		31.8mm	-	-	X (w/ M size adapter)	X (w/ M size adapter)	-	-
	54.114	34.9mm	-	-	Х	Х	-	-
Mount		With BB Plate	-	-	-	-		-
	E-type	Without BB Plate	-	х	-	-	-	х
	Direct Mount		Х	-	-		Х	-
	Dual	l-Pull	-	-	х	х	Х	Х
Cabla mande de co	Top-Pull exclusive		-	-		. 1	-	-
Cable route type	Down-Pull exclusive		-	-			-	-
	Fron	t-Pull	Х	х	-	-	-	-
Chain line (mm)			50	50	50	50	50	50
Chain st	ay angle		66-69	66-69	66-69	66-69	66-69	66-69
Top ge	ar teeth		40-42T	40-42T	42-40T	42-40T	42-40T	42-40T
Total c	apacity		18T	18T	18T	18T	18T	18T
Applicable Top-Mi	id tooth diff	erence	10T	10T	-	-	-	-
Multi access ca	able fixing b	olt	-	-		-	-	-
Angled stroke adjust bolt		Х	Х	х	Х	Х	Х	
Angled clam	Angled clamp band design		-	-	х	x	-	-
Link b	ushings		4	4	6	6	6	6
Front clamp band	Mat	erial		-	Aluminum	Aluminum	-	-
Front clamp band	Fin	ish	-	-	Painted	Painted	-	-
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Mat	erial	-	-	Stainless steel	Stainless steel	-	-
Clamp bolt	Fin	ish		-	-	-	-	-
BB plate	Mat	erial		-	-	-	-	-
אס piate	Fin	ish	-	-	-	-	-	-
Outer link	Mat	erial	GFRP+STEEL	GFRP+STEEL	Aluminum	Aluminum	Aluminum	Aluminum
outer mik	Fin	ish	-	-	Painted	Painted	Painted	Painted
Inner link	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
	Fin	ish	Plated	Plated	Plated	Plated	Plated	Plated
Cable fixing bolt	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless stee
	Fin	ish	-	-	-	-	-	-
Stroke Adjusting	Mat	erial	Steel	Steel	Stainless steel	Stainless steel	Stainless steel	Stainless stee
Screw	Fin	ish	Black	Black	-	-	-	-
Average v (Band type: L size,		w/ bolt)	140.5 g	126.5 g	155.4 g	155 g	140.9 g	143 g
Note					* S-size adapter is available in OTC package only.	* S-size adapter is available in OTC package only.		

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Ser	ries		SLX	SLX	SLX	SLX	SLX	SLX
Mode	el no.		FD-M7020-11-H	FD-M7020-11-L	FD-M7020-11-D	FD-M7020-11-E	FD-M7025-11-H	FD-M7025-11-L
	•	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	2	-	-	-	-	-	-
	Fro	ont	2	2	2	2	2	2
Speeds	Re	ar	11	11	11	11	11	11
Compati	ble chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11
	TOP S	WING	-	-	-	-	-	х
Action	Down	Swing	-	-	-	-	Х	-
	SIDE S	WING	Х	Х	Х	Х	-	-
		28.6mm	_*	_*	-	-	_*	_*
	Clamp Band	31.8mm	X (w/ M size adapter)	X (w/ M size adapter)	-	-	X (w/ M size adapter)	X (w/ M size adapter)
	Danu	34.9mm	Х	Х	-	-	Х	Х
Mount		With BB Plate	-	-	-			-
	E-type	Without BB Plate	-	-	-	х		-
	Direct Mount		-	-	Х	-	-	-
	Dual	-Pull	-	-	-	-	X	-
Calling to the co	Top-Pull	exclusive	-	-			-	-
Cable route type	Down-Pul	l exclusive	-	-	-		-	Х
	Fron	t-Pull	Х	Х	х	х	-	-
Chain li	Chain line (mm)		48.8	48.8	48.8	48.8	48.8	48.8
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		34-38T	34-38T	34-38T	34-38T	34-38T	34-38T	
Total capacity			10T	10T	10T	10T	10T	10T
Applicable Top-Mid tooth difference		-		-	-	-	-	
Multi access cable fixing bolt		-		-	-	-	-	
Angled strok	e adjust bo	lt	Х	Х	х	Х	Х	Х
Angled clamp	band desig	ın	х	х	-	-	х	Х
Link bu	ıshings		4	4	4	4	6	6
Front clamp band	Mat	erial	Aluminum	Aluminum	-	-	Aluminum	Aluminum
Front clamp band	Fin	ish	Painted	Painted	-	-	Painted	Painted
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Claimp Boil	Fin	ish	-	-	-	-	-	-
BB plate	Mat	erial		-	-	-	-	-
25 piace	Fin	ish		-	-	-	-	-
Outer link	Mat	erial	GFRP+STEEL	GFRP+STEEL	GFRP+STEEL	GFRP+STEEL	Aluminum	Aluminum
- 240m	Fin	ish	-	-	-	-	Painted	Painted
Inner link	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	ter link Finish Materia er link Finish Materia m quide	erial	Steel	Steel	Steel	Steel	Steel	Steel
5	Fin	ish	Plated	Plated	Plated	Plated	Painted Aluminum Painted	Plated
Cable fixing bolt	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
3 ··· •	Fin	ish	-	-	-	-	-	-
Stroke Adjusting	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Screw	Fin	ish	-	-	-	-	-	-
Average v (Band type: L size,	veight (pc) direct type v	w/ bolt)	147 g	132 g	136 g	122 g	152 g	133 g
No	Note		* S-size adapter is available in OTC package only.	* S-size adapter is available in OTC package only.			* S-size adapter is available in OTC package only.	* S-size adapter is available in OTC package only.

Ser	ries		SLX	SLX	SLX	SLX	SLX	SLX
Mode	el no.		FD-M7025-11-D	FD-M7025-11-E	FD-M660	FD-M660-E	FD-M661	FD-M661-D
	•	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	- 2	2	-	-	-	-	-	-
	Fro	ont	2	2	3	3	3	3
Speeds	Re	ar	11	11	9	9	9	9
Compati	ble chain		HG-X11	HG-X11	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
	TOP S	WING	-	Х	х	Х	-	-
Action	Down	Swing	Х	-	-	-	Х	Х
	SIDE S	WING	-	-	-	-	X (w/ S size adapter)	-
		28.6mm	-	-	X (w/ S size adapter)	-	X (w/ S size adapter)	-
	Clamp Band	31.8mm	-	-	X (w/ M size adapter)	-	X (w/ M size adapter)	-
	Danu	34.9mm	-	-	Х	-	Х	-
Mount		With BB Plate	-	-	-	х		-
	E-type	Without BB Plate	-	х	-	-		_
	Direct	Mount	Х	-	-		-	х
	Dual	-Pull	Х	-	х	х	X	Х
Cable	Top-Pull	exclusive	-	-			-	-
Cable route type	Down-Pul	l exclusive	-	Х	-		-	-
	Fron	t-Pull	-	-	-	-	-	-
Chain li	Chain line (mm)		48.8	48.8	50	50	50	50
Chain st	Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth		34-38T	34-38T	44T	44T	44T	44T	
Total capacity			10T	10T	22T	22T	22T	22T
Applicable Top-Mid tooth difference		-	-	12T	12T	12T	12T	
Multi access cable fixing bolt		olt	-	-	-	-	-	-
Angled strok	e adjust bo	t	Х	Х	х	Х	Х	Х
Angled clamp	band desig	ın	-	-	х	-	х	-
Link bu	ıshings		6	6	2	2	8	8
Count along hour	Mat	erial			Aluminum	-	Aluminum	Aluminum
Front clamp band	Fin	ish	-	-	Painted	-	Painted	-
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Mat	erial		-	Stainless steel	-	Stainless steel	-
Clamp boil	Fin	ish	-	-	-	-	-	-
BB plate	Mat	erial		-	-	Aluminum	-	-
DD plate	Fin	ish		-	-	Painted	-	-
Outer link	Mat	erial	Aluminum	Aluminum	Steel	Steel	Aluminum	Aluminum
Jatel IIIR	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Mat	eri <mark>al</mark>	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
ci mik	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
gaide	Fin	ish	Plated	Plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing bolt	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Fin	ish	-	-	-	-	-	-
Stroke Adjusting	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Screw	Fin	ish	-	-	-	-	-	-
Average v (Band type: L size,	veight (pc) direct type v	w/ bolt)	140 g	123 g	155 g	170 g	158 g	150 g
Note					* Outer casing stopper integrated design.			

JL

BL

CT

ST

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ED

BR

BR

BR

SMCD

SMCR

BB

BB

MF

НВ

НВ

FH

FH

WH

Seri	es		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Mode	l no.		FD-M6000-H	FD-M6000-M	FD-M6000-L	FD-M6000-D	FD-M6000-E	FD-M6020-H
	1	ı	Series Black	Series Black	Series Black	Series Black	Series Black	Series Black
Color	2	2	-	-	-	-	-	-
eli	Fro	ont	3	3	3	3	3	2
Speeds -	Re	ar	10	10	10	10	10	10
Compatib	le chain		HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed
	TOP S	WING	-	-	-	-	-	-
Action	Down	Swing	-	-	-	-	-	-
	SIDE S	WING	Х	Х	Х	Х	Х	X
		28.6mm	X (w/ S size adapter)	X (w/ S size adapter)	X (w/ S size adapter)	-	-	X (w/ S size adapter)
	Clamp Band	31.8mm	X (w/ M size adapter)	X (w/ M size adapter)	X (w/ M size adapter)	-	-	X (w/ M size adapter)
		34.9mm	Х	Х	Х	-	-	Х
Mount	F. 4	With BB Plate	-	-	-			-
	E-type	Without BB Plate	-	-	-	-	X	-
	Direct Mount		-	-	-	Х	-	-
	Dual-Pull		-	-	-	-	_	-
Cable route type	Top-Pull exclusive		-	-			-	-
Cable route type	Down-Pull	l exclusive	-	-	-		-	-
	Front-Pull Chain line (mm)		Х	Х	Х	х	Х	Х
Chain lin	e (mm)		50	50	50	50	50	48.8
Chain sta	Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			40-42T	40-42T	40-42T	40-42T	40-42T	34-38T
Total capacity		18T	18T	18T	18T	18T	10T	
Applicable Top-Mic	Applicable Top-Mid tooth difference		10T	10T	10T	10T	10T	-
Multi access ca	Multi access cable fixing bolt		-	-	-	-	-	-
Angled stroke	e adjust bol	lt	Х	Х	х	Х	Х	Х
Angled clamp	band desig	ın	Х	х	Х	-	-	Х
Link bu	shings		4	4	4	4	4	4
Front clamp band	Mate	erial	Aluminum	Aluminum	Aluminum	-	-	Aluminum
	Fin	ish	Painted	Painted	Painted	-	-	Painted
Rear clamp band,	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Mate	erial	Stainless steel	Stainless steel	Stainless steel	-	-	Stainless steel
Ciamp Soit	Fin	ish	-	-	-	-	-	-
BB plate	Mate	erial		-	-	-	-	-
25 place	Fin	ish		-	-	-	-	-
Outer link -	Mate	erial	GFRP+STEEL	GFRP+STEEL	GFRP+STEEL	GFRP+STEEL	GFRP+STEEL	GFRP+STEEL
Outer link	Fin	ish	-	-	-	-	-	-
Inner link	Mate	eri <mark>al</mark>	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide -	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
3	Fin	ish	Plated	Plated	Plated	Plated	Plated	Plated
Cable fixing bolt	Mate	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
, , , , , ,	Fin	ish	-	-	-	-	-	-
Stroke Adjusting	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
Screw	Fin	ish	Black	Black	Black	Black	Black	Black
	Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-
No	te							

BL

BR

BR

BR

FC

SMCR

ВВ

MF

НВ

НВ

Ser	ies		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Mode	el no.		FD-M6020-M	FD-M6020-L	FD-M6020-D	FD-M6020-E	FD-M6025-H	FD-M6025-L
		 1	Series Black	Series Black	Series Black	Series Black	Series Black	Series Black
Color	Dual- Top-Pull e Down-Pull Front ine (mm) tay angle ear teeth capacity lid tooth diffe cable fixing bo ke adjust bold p band design ushings Mate Fini		-	-	-	-	-	-
	El no. From Resible chain TOP S Down SIDE S Clamp Band E-type Direct Dual Top-Pull Down-Pul From ine (mm) tay angle ar teeth capacity id tooth diff cable fixing be ke adjust bo p band design ushings Mat Fin ont	2	2	2	2	2	2	
Speeds	Re	ear	10	10	10	10	10	10
Compati	ble chain		HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed
	TOP S	WING	-	-	-	-	-	Х
Action	Down	Swing	-	-	-	-	Х	-
	SIDE S	WING	Х	Х	Х	Х	-	-
		28.6mm	X (w/ S size adapter)	X (w/ S size adapter)	-	-	X (w/ S size adapter)	X (w/ S size adapter)
		31.8mm	X (w/ M size adapter)	X (w/ M size adapter)	-	-	X (w/ M size adapter)	X (w/ M size adapter)
	Band	34.9mm	х	Х	-	-	X	X
Mount		With BB Plate	-	-	-			-
	E-type	Without BB Plate	-	-	-	х	-	-
	Direct Mount		-	-	Х		-	-
	Dual-Pull		-	-	-	-	X	-
	Top-Pull	exclusive	-	-			-	-
Cable route type	Down-Pul	l exclusive	-	-		·	-	Х
	Front-Pull		Х	Х	Х	Х	-	-
Chain li	Chain line (mm)		48.8	48.8	48.8/51.8*	48.8/51.8*	48.8	48.8
Chain st	Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth		34-38T	34-38T	34-38T	34-38T	34-38T	34-38T	
Total capacity		10T	10T	10T	10T	10T	10T	
Applicable Top-Mid tooth difference		-	-	-	-	-	-	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled strok	Angled stroke adjust bolt		Х	Х	х	Х	х	Х
Angled clamp	band desig	jn	х	х	-	-	Х	Х
Link bu	ıshings		4	4	4	4	8	2
F	Mat	erial	Aluminum	Aluminum	-	-	Aluminum	Aluminum
Front clamp band	Fin	ish	Painted	Painted	-	-	Painted	Painted
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clause halk	Mat	erial	Stainless steel	Stainless steel	-	-	Stainless steel	Stainless steel
Clamp bolt	Fin	ish	-	-	-	-	-	-
DDl-4-	Mat	erial		-	-	-	-	-
BB plate	Fin	nish	-	-	-	-	-	-
Outer link	Mat	erial	GFRP+STEEL	GFRP+STEEL	GFRP+STEEL	GFRP+STEEL	Aluminum	Steel
Outer link	Fin	ish	-	-	-	-	Painted	Painted
Inner link	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
milet mik	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain galae	Fin	nish	Plated	Plated	Plated	Plated	Plated	Plated
Cable fixing bolt	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
casic fixing boil	Fin	ish	-	-	-	-	-	-
Stroke Adjusting	Mat	erial	Steel	Steel	Steel	Steel	Stainless steel	Stainless steel
Screw	Fin	ish	Black	Black	Black	Black	-	-
Average v (Band type: L size,		w/ bolt)	-	-	-	-	-	-
Note				* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.			

Ser	ies		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Mode	el no.		FD-M6025-D	FD-M6025-E	FD-M617-H	FD-M617-L	FD-M617-D	FD-M617-E
	,	ı	Series Black	Series Black	Black	Black	Black	Black
Color	2	2	-	-	-	-	-	-
ct	Fro	ont	2	2	2	2	2	2
Speeds	Re	ar	10	10	10	10	10	10
Compatil	ole chain		HG-X 10speed	HG-X 10speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
	TOP S	WING	-	Х	-	-	-	-
Action	Down	Swing	Х	-	-	-	-	-
	SIDE S	WING	-	-	x	x	Х	Х
		28.6mm	-	-	X (w/ S size adapter)	X (w/ S size adapter)	-	-
	Clamp Band	31.8mm	-	-	X (w/ M size adapter)	X (w/ M size adapter)	-	-
		34.9mm	-	-	x	х	-	-
Mount	E-type	With BB Plate	-	-	-			-
	Ltype	Without BB Plate	-	х	-	-	-	х
		Mount	Х	-	-	-	Х	-
	Dual-Pull		Х	-	-			-
Cable route type	Cable route type Top-Pull exclusive		-	-			-	-
,,	Down-Pull exclusive		-	Х	-		-	-
			-	-	Х	Х	Х	Х
	Chain line (mm)		48.8/51.8*	48.8/51.8*	48.8	48.8	48.8	48.8
	Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth		34-38T	34-38T	36-38T	36-38T	36-38T	36-38T	
Total capacity		10T	10T	14T	14T	14T	14T	
Applicable Top-Mid tooth difference			·	-	-	-	-	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled strok	e adjust bo	lt	Х	Х	Х	Х	Х	Х
Angled clamp		ın	-	-	Х	Х	-	-
Link bu			8	2	4	4	4	4
Front clamp band		erial			Aluminum	Aluminum	-	-
		ish	•	-	Painted	Painted	-	-
Rear clamp band, base bracket		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
buse brucket		ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt		erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-	-
		ish	·	-	-	-	-	-
BB plate		erial		-	-	-	-	-
		ish	Aluminum					- GFRP+STEEL
Outer link		erial ish	Aluminum Painted	Steel	GFRP+STEEL -	GFRP+STEEL -	GFRP+STEEL -	GFKP+STEEL
		eri <mark>al</mark>	Aluminum	Painted Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner link		ish	Painted	Painted	Painted	Painted	Painted	Painted
		erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide		ish	Plated	Plated	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright
		erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cable fixing bolt		ish	-	-	-	-	-	-
Camela A P - 1		erial	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
Stroke Adjusting Screw		ish	-	-	Black	Black	Black	Black
Average w								
(Band type: L size,		w/ bolt)	-	-	-	-	-	-
Note		* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.			* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.	

Sei	ries		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Mode	el no.		FD-M618-H	FD-M618-L	FD-M618-D	FD-M618-E	FD-M610-B	FD-M610-E
		1	Black	Black	Black	Black	Black	Black
Color	E-type Clamp Band E-type Direct Dua Top-Pull Down-Pul From te (mm) ay angle ar teeth apacity d tooth diff ble fixing be e adjust bo band designshings Mat Fit Mat	2	-	-	-	-	-	-
	Fre	ont	2	2	2	2	3	3
Speeds	Re	ear	10	10	10	10	10	10
Compati	L ble chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
	TOP S	WING	-	Х	-	Х	Х	Х
Action	Down	Swing	Х	-	Х	-	-	-
	SIDE S	WING	-	-	-	-	-	-
		28.6mm	X (w/ S size adapter)	X (w/ S size adapter)	-	-	X (w/ S size adapter)	-
		31.8mm	X (w/ M size adapter)	X (w/ M size adapter)	-	-	X (w/ M size adapter)	-
	Band	34.9mm	X	Х	-	-	х	-
Mount		With BB Plate	-	-	-			-
	E-type	Without BB Plate	-	-	-	х	-	х
	Direct Mount		-	-	Х	1		-
	Dual-Pull		х	-	х	-	X	Х
		exclusive	х	-	Х	. 1	-	-
Cable route type	Down-Pull exclusive		-	Х		Х	-	-
	Front-Pull		-	-	-		-	-
Chain li	Chain line (mm)		48.8	48.8	48.8*	48.8*	50	50
Chain st	Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			36-38T	36-38T	36-38T	36-38T	40-42T	40-42T
Total c	Total capacity		14T	14T	14T	14T	18T	18T
Applicable Top-Mid tooth difference		-	-	-	-	10T	10T	
Multi access ca	Multi access cable fixing bolt		-	-	-	-	Х	Х
Angled strok	Angled stroke adjust bolt		Х	Х	х	Х	Х	Х
Angled clamp	band desig	jn	х	х	-	-	Х	-
Link bu	ıshings		8	2	8	2	2	2
Fuent dama hand	Mat	erial	Aluminum	Aluminum	-	-	Aluminum	-
Front clamp band	Fir	ish	Painted	Painted	-	-	Painted	-
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fir	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-
Claimp boil	Fin	ish	-	-	-	-	-	-
DD wlate	Mat	erial		-	-	-	-	-
BB plate	Fin	ish	-	-	-	-	-	-
Outon link	Mat	erial	Aluminum	Steel	Aluminum	Steel	Steel	Steel
Outer link	Fir	ish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
milet mik	Fir	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
anam guide	Fir	nish	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright
Cable fixing bolt	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cable fixing boil	Fir	nish	-	-	-	-	-	-
Stroke Adjusting	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Screw	Fir	ish	-	-	-	-	-	-
Average v (Band type: L size,	veight (pc) direct type	w/ bolt)	-	-	-	-	-	-
Note				* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.			

SL

SMSL

BL

СТ

DD

BR

BR

BR

SMCR

ВВ

DD

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MF

НВ

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FH

WH

Series			DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Mode	l no.		FD-M611-B	FD-M611-D	FD-M615-B	FD-M615-E2	FD-M616-B	FD-M616-D
	1	1	Black	Black	Black	Black	Black	Black
Color		2	-	-	-	-	-	-
e li	Front		3	3	2	2	2	2
Speeds	Re	ear	10	10	10	10	10	10
Compatib	ole chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
	TOP S	WING	-	-	Х	Х	-	-
Action	Down	Swing	Х	Х	-	-	Х	Х
	SIDE S	WING	-	-	-	-	-	-
		28.6mm	X (w/ S size adapter)	-	X (w/ S size adapter)	-	X (w/ S size adapter)	-
	Clamp Band	31.8mm	X (w/ M size adapter)	-	X (w/ M size adapter)	-	X (w/ M size adapter)	-
		34.9mm	Х	-	Х	-	Х	-
Mount	F 4	With BB Plate	-	-	-			-
	E-type	Without BB Plate	-	-	-	Х		-
	Direct	Mount	-	Х	-		-	х
	Dual	l-Pull	х	Х	х	Х	x	х
Cable route type	Top-Pull	exclusive	Х	Х			Х	Х
cable route type	Down-Pull	l exclusive	-	-	-		-	-
	Front	t-Pull	-	-	-	-	-	-
Chain lir	ne (mm)		50	50	48.8	48.8	48.8	48.8
Chain sta	ay angle		66-69	66-69	66-69	66-69	66-69	66-69
Top gea	r teeth		40-42T	40-42T	38-44T	38-40T	38-44T	38-44T
Total ca	pacity		18T	18T	14T	14T	14T	14T
Applicable Top-Mic	d tooth diff	erence	10T	10T	-	-	-	-
Multi access ca	ble fixing b	olt	-		х	Х	-	-
Angled strok	e adjust bol	lt	Х	Х	х	Х	Х	Х
Angled clamp	band desig	jn	Х	-	Х	-	Х	-
Link bu	shings		8	8	2	2	8	8
Front clamp band	Mate	erial	Aluminum		Aluminum	-	Aluminum	-
,	Fin	ish	Painted	-	Painted	-	Painted	-
Rear clamp band,	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Mat	erial	Stainless steel	-	Stainless steel	-	Stainless steel	-
·		ish	•	-	-	-	-	-
BB plate	$\overline{}$	erial		-	-	-	-	-
	_	ish	-	-	-	-	-	-
Outer link	_	erial	Aluminum	Aluminum	Steel	Steel	Aluminum	Aluminum
		ish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link		eri <mark>al</mark>	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
		ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide		erial	Steel	Steel	Steel	Steel	Steel	Steel
		ish	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright
Cable fixing bolt		erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
		ish	-	-	-	-	-	
Stroke Adjusting Screw		erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
		ish	-	-	-	-	-	-
Average w (Band type: L size, o	direct type v	w/ bolt)	-	-	-	-	-	-
No	te							

Series			ALIVIO	ALIVIO	ALIVIO	ALIVIO	ALIVIO	ACERA
Mode	el no.		FD-M4000-TS3	FD-M4000-TS6	FD-M4000-DS3	FD-M4000-DS6	FD-M410-E	FD-M3000-TS3
		1	Series color	Series color				
Color	:	2	-	-	-	-	-	-
	Fro	ont	3	3	3	3	3	3
Speeds	Speeds Rear		9	9	9	9	8/7	9
Compati	ole chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 8/7-speed	HG 9-speed
	TOP S	WING	Х	Х	-	-	Х	Х
Action	Action Down Swing SIDE SWING		-	-	х	Х	-	-
			-	-	-	-	-	-
		28.6mm	X (w/ S size adapter)	-	X (w/ S size adapter)			
	Clamp Band	31.8mm	X (w/ M size adapter)	-	X (w/ M size adapter			
	Ballu	34.9mm	Х	Х	Х	Х	-	Х
Mount		With BB Plate	-	-	-		х	-
	E-type	Without BB Plate	-	-	-	-	-	-
ŀ	Direct	Mount	-	-	-	1	-	-
	Dua		х	Х	х	х	X	Х
	Top-Pull	exclusive	-	-	A		-	-
Cable route type	Down-Pul	l exclusive	-	-	-		-	-
	Fron	t-Pull	-	-	-	-	-	-
Chain li	ne (mm)		50	50	50	50	50	50
Chain st	ay angle		63-66	66-69	63-66	66-69	63-69 *	63-66
Top gea	Top gear teeth		40T	40T	40T	40T	42T	40T
Total ca	apacity		18T	18T	18T	18T	20T	18T
Applicable Top-Mi	d tooth diff	erence	10T	10T	10T	10T	10T	10T
Multi access ca	ble fixing b	olt	-	-	-	-	-	-
Angled strok	e adjust bo	lt	Х	Х	х	Х	-	Х
Angled clamp	band desig	jn	х	х	Х	Х	-	Х
Link bu	ıshings			-	2	2	-	-
Forms alama hand	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Front clamp band	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp halt	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-	Stainless steel
Clamp bolt	Fin	ish	-	-	-	-	-	-
BB plate	Mat	erial	· ·	-	-	-	Aluminum	-
вв ріасе	Fin	ish	-	-	-	-	Painted	-
Outer link	Mat	erial	Steel	Steel	Aluminum	Aluminum	Steel	Steel
Outer mik	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Mat	erial	Steel	Steel	Aluminum	Aluminum	Steel	Steel
maei mik	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
and galac	Fin	ish	Chrome plated	Chrome plated				
Cable fixing bolt	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Stainless steel
	Fin	ish	-	-	-	-	Nickel plated	-
Stroke Adjusting	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
Screw	Fin	ish	-	-	-	-	Zinc plated	Zinc plated
Average v (Band type: L size,		w/ bolt)	-	-	-	-	-	-
No	te						* Slits are required on the right side edge of BB shell.	

SMSI

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BL

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RD

FD

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VVH

CI-DLCK

Series		ACERA	ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	
Mode	l no.		FD-M3000-TS6	FD-M2000-TS3	FD-M2000-TS6	FD-M2000-DS3	FD-M2000-DS6	FD-M370-3
	1		Series color					
Color	2	!	-	-	-	-	-	-
cl.	Front		3	3	3	3	3	3
Speeds -	Re	ar	9	9	9	9	9	9
Compatib	le chain		HG 9-speed					
	TOP S	WING	Х	Х	Х	-	-	Х
Action	Down	Swing	-	-	-	Х	X	-
	SIDE S	WING	-	-	-	-	-	-
		28.6mm	X (w/ S size adapter)					
	Clamp Band	31.8mm	X (w/ M size adapter)					
		34.9mm	Х	Х	x	х	х	Х
Mount	F. 4	With BB Plate	-	-	-			-
	E-type	Without BB Plate	-	-	-	-		-
	Direct	Mount	-	-	-			-
	Dual	-Pull	Х	Х	х	Х	X	X
Cable route type	Top-Pull	exclusive	-	-			-	-
cable route type	Down-Pull	exclusive	-	-	-		-	-
	Front	-Pull	-	-	-	-	-	-
Chain lin	e (mm)		50	50	50	50	50	50
Chain sta	y angle		66-69	63-66	66-69	63-66	66-69	63-66
Top gea	r teeth		40T	40T	40T	40T	40T	44T/48T
Total ca	pacity		18T	18T	18T	18T	18T	22T
Applicable Top-Mic	tooth diffe	erence	10T	10T	10T	10T	10T	12T
Multi access cal	ble fixing b	olt	-	-	-	-	-	-
Angled stroke	adjust bol	t	Х	Х	х	Х	Х	-
Angled clamp	band desig	n	Х	Х	Х	Х	Х	Х
Link bu	shings			-	-	-	-	-
Front clamp band	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
,	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Rear clamp band,	Mate	erial	Steel	Steel	Steel	Aluminum	Aluminum	Steel
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Mate	erial	Stainless steel	Steel	Steel	Steel	Steel	Steel
	Fin	ish	-	Nickel Plated				
BB plate -	Mate	erial		-	-	-	-	-
,	Fin	ish	_	-	-	-	-	-
Outer link -	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
	Fin		Painted	Zinc plated	Zinc plated	Painted	Painted	Painted
Inner link		erial	Steel	Steel	Steel	Steel	Steel	Steel
	Fin		Painted	Painted	Painted	Painted / zinc plated	Painted / zinc plated	Painted
Chain guide	Mate		Steel	Steel	Steel	Steel	Steel	Steel
-	Fin		Chrome plated					
Cable fixing bolt	Mate		Stainless steel	Steel				
-	Fin		-	-	-	-	-	Nickel plated
Stroke Adjusting	Mate		Steel	Steel	Steel	Steel	Steel	Steel
Screw		ish	Zinc plated					
Average w (Band type: L size, d	lirect type v	v/ bolt)	-	-	-	-	-	-
No	te							

Sei	ries		ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	ALTUS
Mode	el no.		FD-M370-6	FD-M371-3	FD-M371-6	FD-M313-3	FD-M313-6	FD-M310-3
		1	Series color	Series color				
Color		2	-	-	-	-	-	-
	Fro	ont	3	3	3	3	3	3
Speeds	Re	ear	9	9	9	8/7	8/7	8/7
Compati	ble chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed
<u> </u>	TOP S	WING	X	-	-	-	-	X
Action	Down	Swing	-	Х	Х	Х	Х	-
	SIDE S	WING	-	-	-	-	-	-
		28.6mm	X (w/ S size adapter)	X (w/ S size adapte				
	Clamp Band	31.8mm	X (w/ M size adapter)	X (w/ M size adapte				
	Danu	34.9mm	Х	Х	Х	Х	X	Х
Mount		With BB Plate	-	-	-	_		-
	E-type	Without BB Plate	-	-	-		-	_
	Direct	Mount	-	-	-			-
	Dua	I-Pull	Х	Х	х	х	X	Х
	Top-Pull	exclusive	-	-			-	-
Cable route type	Down-Pul	l exclusive	-	-	-		-	-
	Fron	t-Pull	-	-	-	-	-	-
Chain li	ne (mm)		50	50	50	47.5 / 50	47.5 / 50	47.5 / 50
Chain st	ay angle		66-69	63-66	66-69	63-66	66-69	63-66
Top gea	ar teeth		44T/48T	44T/48T	44T/48T	42/48T	42/48T	42/48T
Total capacity		22T	22T	22T	20T	20T	20T	
Applicable Top-Mi	Applicable Top-Mid tooth difference		12T	12T	12T	10T	10T	10T
Multi access ca	able fixing b	olt	-	-	-	-	-	-
Angled strok	e adjust bo	lt	-	-	-	-	-	-
Angled clamp	band desig	jn	х	х	Х	Х	Х	Х
Link bu	ıshings			-	-	-	-	-
e	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Front clamp band	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Rear clamp band,	Mat	erial	Steel	Aluminum	Aluminum	Aluminum	Aluminum	Steel
base bracket	Fin	nish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp halt	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Clamp bolt	Fin	ish	Nickel plated	Nickel plated				
BB plate	Mat	erial		-	-	-	-	-
DD plate	Fin	nish	-	-	-	-	-	-
Outer link	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Outer link	Fin	nish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
	Fin	nish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
cham galac	Fin	nish	Chrome plated	Chrome plated				
Cable fixing bolt	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
rining boil	Fin	ish	Nickel plated	Nickel plated				
Stroke Adjusting	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Screw	Fin	ish	Zinc plated	Zinc plated				
Average v (Band type: L size,	veight (pc) direct type	w/ bolt)	-	-	-	-	-	-
No	ote							

SL

SMSL

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FD

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BR

FC

SMCD

SMCR

ВВ

BB

CS

MF

НВ

НВ

EH

EH

CI-DLCK

Ser	ies		ALTUS	SHIMANO	SHIMANO	TOURNEY TX	TOURNEY TX	TOURNEY
Mode	el no.		FD-M310-6	FD-MT400-D	FD-MT400-E	FD-TX800-TS3	FD-TX800-TS6	FD-TY700-TS3
C.L.		1	Series color	Black	Black	Series color	Series color	Series color
Color	7	2	-	-	-	-	-	-
Cd-	Fro	ont	3	2	2	3	3	3
Speeds	Re	ear	8/7	9	9	8/7	8/7	8/7
Compatil	ole chain		HG 8/7-speed	HG 9-speed	HG 9-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed
	TOP S	WING	Х	-	-	х	Х	Х
Action	Down	Swing	-	-	-	-	-	-
	SIDE S	WING	-	Х	Х	-	-	-
	a.	28.6mm	X (w/ S size adapter)	-	-	X (w/ S size adapter)	X (w/ S size adapter)	X (w/ S size adapter)
	Clamp Band	31.8mm	X (w/ M size adapter)	-	-	X (w/ M size adapter)	X (w/ M size adapter)	X (w/ M size adapter)
		34.9mm	Х	-	-	Х	Х	Х
Mount	E-type	With BB Plate	-	-	-	-		-
	E- суре	Without BB Plate	-	-	X	-	-	-
	Direct	Mount	-	Х	-	+	-	-
	Dua	l-Pull	Х	-		X	X	х
Cable route type	Top-Pull	exclusive	-	-			-	-
cable route type	Down-Pul	l exclusive	-	-	-		-	-
	Fron	t-Pull	-	Х	х	-	-	-
Chain li	ne (mm)		47.5 / 50	48.8/51.8*	48.8/51.8*	47.5 / 50	47.5 / 50	47.5 / 50
Chain st	ay angle		66-69	66-69	66-69	63-66	66-69	63-66
Top gea	r teeth		42/48T	36-38T	36-38T	42/48T	42/48T	42T
Total ca	pacity		20T	14T	14T	20T	20T	18T
Applicable Top-Mi	d tooth diff	erence	10T	•	-	10T	10T	8T
Multi access ca	ble fixing b	olt	-	-	-	-	-	-
Angled strok	e adjust bo	lt	-	Х	х	-	-	-
Angled clamp	band desig	jn 	Х	-	-	Х	Х	Х
Link bu				4	4	-	-	-
Front clamp band		erial	Steel		-	Steel	Steel	Steel
		ish	Painted	-	-	Painted	Painted	Painted
Rear clamp band, base bracket		erial	Steel	Aluminum	Aluminum	Steel	Steel	Steel
buse brucket		ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt		erial	Steel	<u> </u>	-	Steel	Steel	Steel
		orial	Nickel plated		-	Nickel plated	Nickel plated	Nickel plated
BB plate	$\overline{}$	erial ish	•	-	-	-	-	-
	_	erial	Steel	GFRP+STEEL	GFRP+STEEL	Steel	Steel	Steel
Outer link		ish	Painted	-	-	Zinc plated	Zinc plated	Zinc plated
		erial	Steel	Aluminum	Aluminum	Steel	Steel	Steel
Inner link		ish	Painted	Painted	Painted	Painted	Painted	Painted
		erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide		ish	Chrome plated	TBD	TBD	Chrome plated	Chrome plated	Chrome plated
		erial	Steel	Stainless steel	Stainless steel	Steel	Steel	Steel
Cable fixing bolt		ish	Nickel plated	-	-	Nickel plated	Nickel plated	Nickel plated
Stroke Adjusting		erial	Steel	Steel	Steel	Steel	Steel	Steel
Screw		ish	Zinc plated	Black	Black	Zinc plated	Zinc plated	Zinc plated
Average w (Band type: L size, o	reight (pc)		-	-	-	-	-	-
No		·		* Compatible with the special crankset which chainline is 3 mm outboard. The special frame is required.	* Compatible with the special crankset which chainline is 3 mm outboard. The special frame is required.			

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	
Mode	el no.		FD-TY700-TS6	FD-TY710-TS3	FD-TY710-TS6	FD-TY500-TS3	FD-TY500-TS6	FD-TY510-TS3
	•	ı	Series color	Series color	Series color	Series color	Series color	Series color
Color		2	-	-	-	-	-	-
	Fro	ont	3	3	3	3	3	3
Speeds	Re	ar	8/7	8/7	8/7	7/6	7/6	7/6
Compatib	ole chain		HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed
	TOP S	WING	Х	Х	Х	Х	х	х
Action	Action Down Swing		-	-	-	-	-	-
	SIDE S	WING	-	-	-	-	-	-
		28.6mm	X (w/ S size adapter)	X (w/ S size adapter)	X (w/ S size adapte			
	Clamp Band	31.8mm	X (w/ M size adapter)	X (w/ M size adapter)	X (w/ M size adapte			
		34.9mm	х	Х	X	X	х	х
Mount	E-type	With BB Plate	-	-	-	-		-
	с- туре	Without BB Plate	-	-	-	-		-
	Direct	Mount	-	-	-		-	-
[Dual	-Pull	Х	Х	х	Х	X	Х
Cable route type	Top-Pull	exclusive	-	-			-	-
cable route type	Down-Pul	exclusive	-	-	-		-	-
	Fron	t-Pull	-	-	-	-	-	-
Chain lir	ne (mm)		47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50
Chain stay angle		66-69	63-66	66-69	63-66	66-69	63-66	
Top gea	r teeth		42T	48T	48T	42T	42T	48T
Total capacity		18T	20T	20T	18T	18T	20T	
Applicable Top-Mid tooth difference		8T	10T	10T	8T	8T	10T	
Multi access ca	ble fixing b	olt	-	-	-	-	-	-
Angled strok	e adjust bo	t	-	-	-	-	-	-
Angled clamp	band desig	n	X	Х	Х	Х	X	Х
Link bu	shings		-	-	-	-	-	-
Front clamp band	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
·	Fin	ish	Painted	Painted	Painted	Zinc plated	Zinc plated	Zinc plated
Rear clamp band,	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
base bracket	Fin	ish	Painted	Painted	Painted	Zinc plated	Zinc plated	Zinc plated
Clamp bolt	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
	Fin	ish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
BB plate	$\overline{}$	erial		-	-	-	-	-
	Fin	ish	-	-	-	-	-	-
Outer link	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
		ish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Inner link		eri <mark>al</mark>	Steel	Steel	Steel	Steel	Steel	Steel
	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain audda	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide		ish	Chrome plated	Chrome plated	Chrome plated	Chrome plated / Painted	Chrome plated / Painted	Chrome plated / Painted
Cable fixing bolt	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
	Fin	ish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Stroke Adjusting	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Screw	Fin	ish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (pc) (Band type: L size, direct type w/ bolt)		_	_	_	_	_	-	

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Sei	Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY TZ	TOURNEY TZ
Mode	el no.		FD-TY510-TS6	FD-TY300-DS6	FD-TY300-DS6	FD-TZ500-DS6	FD-TZ510-DS6
	1	ı	Series color	Series color	Series color	Series color	Series color
Color	- 2	2	-	-	-	-	-
	Fro	ont	3	3	3	3 (friction)	3 (friction)
Speeds	Re	ar	7/6	7/6	7/6	7/6	7/6
Compati	ble 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
	TOP S	WING	Х	-	-	-	-
Action	Down	Swing	-	Х	х	Х	Х
	SIDE S	WING	-	-	-	-	-
		28.6mm	X (w/ S size adapter)	Х	-	Х	X
	Clamp Band	31.8mm	X (w/ M size adapter)	Х	-	Х	Х
	Danu	34.9mm	Х	-	Х	-	-
Mount		With BB Plate	-	-	-		
	E-type	Without BB Plate	-	-	-		
	Direct		-	-	-		
	Dual	-Pull	Х	-	-		
C. L	Top-Pull	exclusive	-	Х	х	х	Х
Cable route type	Down-Pul	l exclusive	-	Х	Х	Х	Х
	Fron	t-Pull	-	-	-	-	-
Chain li	ne (mm)		47.5 / 50	47.5	50	47.5	47.5
Chain st	ay angle		66-69	66-69	66-69	66-69	66-69
Top gea	ar teeth		48T	42T	42T	42T	48T
Total c	apacity		20T	18T	18T	18T	20T
Applicable Top-Mi	id tooth diff	erence	10T	8T	8T	8T	10T
Multi access ca	able fixing b	olt	-	-	-	-	-
Angled strok	e adjust bo	lt	-	-	-	-	-
Angled clamp	band desig	ın	х	-	-	-	-
Link bu	ushings			-	-	-	-
	Mat	erial	Steel	Steel	Steel	Steel	Steel
Front clamp band	Fin	ish	Zinc plated	Painted	Painted	Painted	Painted
Rear clamp band,	Mat	erial	Steel	Steel	Steel	Steel	Steel
base bracket	Fin	ish	Zinc plated	Painted	Painted	Painted	Painted
Charachali	Mat	erial	Steel	Steel	Steel	Steel	Steel
Clamp bolt	Fin	ish	Nickel plated	Nickel plated	Nickel plated	Zinc plated	Zinc plated
	Mat	erial		-	-	-	-
BB plate	Fin	ish	-	-	-	-	-
	Mat	erial	Steel	Steel / Resin	Steel / Resin	Steel / Resin	Steel / Resin
Outer link	Fin	ish	Zinc plated	Painted	Painted	Painted	Painted
Inna Bala	Mat	erial	Steel	Steel	Steel	Steel	Steel
Inner link	Fin	ish	Painted	Zinc plated	Zinc plated	Painted	Painted
	Mat	erial	Steel	Steel	Steel	Steel	Steel
Chain guide	Fin	ish	Chrome plated / Painted	Zinc plated	Zinc plated	Painted	Painted
Califa di Controllo	Mat	erial	Steel	Steel	Steel	Steel	Steel
Cable fixing bolt	Fin	ish	Nickel plated	Nickel plated	Nickel plated	Zinc plated	Zinc plated
Stroke Adjusting	Mat	erial	Steel	Steel	Steel	Steel	Steel
Screw	Fin	ish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average v (Band type: L size,	veight (pc) direct type v	w/ bolt)	-	-	-	-	-
No	ote						

Brake (Hydraulic disc brake)

Series		XTR	XTR	SAINT	DEORE XT	DEORE XT	SLX
Mode	el no.	BR-M9000	BR-M9020	BR-M820	BR-M8000	BR-M8020	BR-M7000
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake	type	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake h	ose (kit)	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SB	SM-BH90-SBLS	SM-BH90-SB
Hose	joint	Banjo	Banjo	Banjo	Banjo	Banjo	Banjo
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
brake flose color (kit)	2	-	-	White	-	-	-
J-Kit spec	(for OEM)	Х	Х	Х	Х	X	Х
ICE-TECHN pad compat		Х	х	х	х	х	Х
	Standard 1	G02A Resin	J02 A Resin	H01A Resin	G02A Resin	H01A Resin	G02S Resin
D. J	Standard 2	G04Ti Metal	J04C Metal	H03C Metal	J02 A Resin	-	J02A Resin
Pad	Option 1	J02 A Resin	G02A Resin	-	G04S Metal	D01S Resin	G04S Metal
	Option 2	J04C Metal	G04Ti Metal	-	J04C Metal		J04C Metal
Recommende	d brake lever	BL-M9000	BL-M9020	BL-M820	BL-M8000	BL-M8000	BL-M7000
Recommende	d brake rotor	SM-RT99 * SM-RT99-A	SM-RT99 * SM-RT99-A	SM-RT99 SM-RT86	SM-RT81 SM-RT86	SM-RT81 SM-RT99 RT-EM800 RT-EM900	SM-RT70 SM-RT66
0	il	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY	BLEEDING	Х	Х	х	х	Х	Х
Moun (available for IS moun		Post-type	Post-type	Post-type	Post-type	Post-type	Post-type
Pist	on	2	2	4	2	4	2
Piston n	naterial	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
	MONO-BODY	-	х	-	-	-	-
Caliper	Material	Magnesium	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Paint	Paint	Painted	Painted	Painted	Painted
	Material	Ti	Ti	Stainless steel	Stainless steel	Steel	Stainless steel
Caliper fixing bolt	Tool size	** 4 mm	** 4 mm	5 mm	5 mm	5 mm	5 mm
	Anti loosen method	Wiring	Wiring	Snap ring	Snap ring	Snap ring	Snap ring
Pad m	nount	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (kit for front 800mm, w/160mm recommend RT, w/lock ring, w/o adapter, w/2bolts, w/ Resin pad)		316.1 g	359.6 g	306 g** (w/radiator fin)	402.5 g	-	418.8 g
No	te	* 140 mm for rear only ** Titanium	* 140 mm for rear only ** Titanium	** single item weight		-	

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Brake (Hydraulic disc brake)

Series		DEORE	ZEE	SHIMANO	SHIMANO	ALIVIO	ACERA
Mode	el no.	BR-M6000	BR-M640	BR-MT500	BR-M446	BR-M4050	BR-M3050
	1	Series Black	Series color	Black	Black	Series color	Series color
Color	2	Series Silver*	-	-	Silver	-	-
3		Black (SHIMANO logo)***	-	-	White	-	-
Brake	type	Hydraulic Disc-brake	Hydraulic disc brake	Hydraulic Disc-brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake h	ose (kit)	SM-BH90-SS	SM-BH90-SBS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose	joint	Straight	Banjo	Straight	Straight	Straight	Straight
Busha hasa salau (liit)	1	Black	Black	Black	Black	Black	Black
Brake hose color (kit)	2	-	White	-	White	-	-
J-Kit spec	(for OEM)	Х	Х	Х	Х	Х	Х
ICE-TECHI pad compa	NOLOGIES tible caliper	х	х	-	-	-	-
	Standard 1	G02S Resin	D01S Resin	B01S resin	B01S Resin	B01S Resin	B01S Resin
D ₀ -d	Standard 2	J02A Resin**	D02S Metal	-		-	-
Pad	Option 1	G04S Metal**	H01A Resin	-	-	-	-
	Option 2	-	-	-	-	-	-
Recommende	d brake lever	BL-M6000 BL-T6000	BL-M640	BL-MT500	BL-T445	ST-M4050	ST-M3050
Recommende	d brake rotor	SM-RT64, SM-RT66, SM-RT54, SM-RT56	SM-RT66	SM-RT54 SM-RT56	SM-RT54 SM-RT56	SM-RT54 SM-RT56	SM-RT54 SM-RT56
O	il	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY	BLEEDING	х	х	Х	х	Х	Х
	t type t with mount adapter)	Post-type	Post-type	Post-type	Post-type	Post-type	Post-type
Pis	ton	2	4	2	2	2	2
Piston r	naterial	Resin	Ceramic	Resin	Resin	Resin	Resin
	MONO-BODY	-	-	-	-	-	-
Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Stainless steel	Steel	Steel	Steel	Steel
Caliper fixing bolt	Tool size	5 mm	5 mm	5 mm	5 mm	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Pad n	nount	Split pin stainless steel	Split pin	Split pin stainless steel	Split pin	Split pin	Split pin
Average weight (kit for front 800mm, w/160mm recommend RT, w/lock ring, w/o adapter, w/2bolts, w/ Resin pad)			314 g**	-	-	-	-
No	ote	J-Kit spec available * T6000 kit only ** M6000 kit only *** Both M6000 kit and T6000 kit	** single item weight		SHIMANO logo		

МТВ

Brake	(Hydra	aulic	disc	bra	ke)
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Cal	ries	SHIMANO	SHIMANO	SHIMANO	
	el no.	BR-M395	BR-M365	BR-M315	
Mou	1	Black	Black	Black	
Color	2	White	White	- Didek	
Color	3	-	-	-	
Bunka	type	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	
		*	•	•	
	ose (kit)	SM-BH59-JK-SS Straight	SM-BH59-JK-SS	SM-BH59-JK-SS	
Hose	Hose joint		Straight	Straight	
Brake hose color (kit)		Black	Black	Black	
	2	-	-	-	
l	(for OEM)	Х	Х	Х	
	NOLOGIES tible caliper	-	-	-	
	Standard 1	B01S Resin	B01S Resin	B01S Resin	
Pad	Standard 2	-	-	-	
Pad	Option 1	-	-	-	
	Option 2	-	-	-	
Recommende	ed brake lever	BL-M425 / BL-M395	BL-M365	BL-M315	
Recommende	ed brake rotor	SM-RT30 SM-RT54 SM-RT56	SM-RT10 SM-RT26	SM-RT10 SM-RT26	
С	Dil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	
ONE WAY	BLEEDING	Х	х	х	
	t type t with mount adapter)	Post-type	Post-type	Post-type	
Pis	ton	2	2	2	
Piston r	material	Resin	Resin	Resin	
	MONO-BODY	-	-	-	
Caliper	Material	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	
	Material	Steel	Steel	Steel	
Caliper fixing bolt	Tool size	5 mm	5 mm	5 mm	
	Anti loosen method	Snap ring	Snap ring	Snap ring	
Pad n	nount	Split p <mark>in</mark>	Split pin	Split pin	
Average weight (kit for front 800mm, w/160mm recommend RT, w/lock ring, w/o adapter, w/2bolts, w/ Resin pad)				-	
No	ote	SHIMANO logo			

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Brake (Mechanical disc brake)

Ser	ies	SHIMANO	TOURNEY TX	
Mode	el no.	BR-M375	BR-TX805	
	1	Black	Black	
Color	2	Silver	-	
	3	-	-	
Brake	type	Mechanical disc brake	Mechanical disc brake	
	NOLOGIES tible caliper	-	-	
	Standard 1	B01S Resin	B01S Resin	
5 . 1	Standard 2	-	-	
Pad	Option 1	-	-	
	Option 2	-	-	
Recommende	d brake lever	V-BRAKE BL (1.5-2.5 finger)	V-BRAKE BL (1.5-2.5 finger)	
Recommende	d brake rotor	SM-RT10 SM-RT30 SM-RT26	SM-RT10 SM-RT26	
Moun (available for IS moun	t type t with mount adapter)	Post-type	Post-type	
Pis	ton	1	1	
Piston r	naterial	-	-	
	MONO-BODY	-	-	
Caliper	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
	Material	Steel	Steel	
Caliper fixing bolt	Tool size	5mm	5mm	
	Anti loosen method		Snap ring	
Pad n	nount	Split pin	Split pin	
Average	weight	-	-	
No.	ote			



МТВ

Brake (V-BRAKE)

Ser	ies	DXR			
Mode	el no.	BR-MX70			
	1	Series color			
Color	2	-			
	3	-			
Brake	type	V-BRAKE			
	Standard 1	\$70C			
Post of the	Standard 2	-			
Brake shoe	Option 1	M70T4			
	Option 2	M70T3			
Cartridge s	hoe holder	Х			
Arch siz	ze (mm)	103			
Enocou tumo	X type	х			
Spacer type	Y type	х			
Compatible lead	pipe angle (deg.)	45/90/135			
Sleeve & Bi	ushing axle	х			
	Material	Aluminum			
V-arm/Caliper	Finish	Anodized			
	Light weight link	х			
Cover	Material	Aluminum			
Cover	Finish	Anodized			
Fixing bolt length	16	х			
(mm)	25	Х			
	Material	Stainless steel			
Fixing bolt	Finish	Plated			
	Chamfered bolt	Х			
Power m	odulator	X (OPTION SM-PM70)			
Linear	spring	Х			
Stainless cab	le fixing bolt	Х			
Average	weight	184 g			
No.	Note				



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Ser	ies	XTR	XTR	XTR	XTR	XTR	XTR
Mode		FC-M9020-3	FC-M9020-2	FC-M9020-B2	FC-M9020-1	FC-M9020-B1	FC-M9000-2
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
	peeds	11	11	11	11	11	11
Compati		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11
Chainlir		50	48.8	51.8	50.4	53.4	48.8
P.C.D.	` '	96/64	96/64	96/64	96	96	96/64
Gear	arms	4arm ***	4arm *** 38-28T	4arm	4arm ***	4arm ***	4arm *** 38-28T
Chainring c	ombination	40-30-22T	36-26T 34-24T	36-26T 34-24T	36, 34, 32, 30T (SM-CRM91)	32, 30T (SM-CRM91)	36-26T 34-24T
Q-facto	or (mm)	168	168	174	168	174	158
	150.0	-	-	-	-	-	-
	165.0	Х	Х	-	Х	-	-
	167.5	=	-	-	-	-	-
Crank arm length	170.0	Х	X	X	X	X	X
(mm)	172.5	-	-	-	-	-	-
	175.0	X	X	Х	X	Х	X
	177.5	-	-	-	-	-	-
	180.0	Х	X	-	X		-
	With bash guard	-	-	-		-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain / bash	Х	X	X	X	X	Х
	guard With	Х	X	X	X	X	X
Crank arm fixing bolt	With	X -	X -	X -	X -	٨	X -
HOLLOV		X	X	X	X	X	X
2-PIECE C		-	-	-	^	-	
HOLLOWTEG		-	-			-	-
OCTA		-	-	-		-	-
HOLLO		X	X	X	X*	-	X
	Outboard	X	X	X	X	Х	X
Compatible BB type	OCTALINK	-	-			-	-
	Square	-	_	-	-	-	-
	Threaded (normal)	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93
	Threaded (E-type)	-		-	-	-	-
Recommended BB	Threaded (chain case)	•	-	-	-	-	-
	Pressfit	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A
	Threaded (normal)	-	-	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (E-type)	-	-	-	-	-	-
/ E3 (IIIII)	Threaded (chain case)	-	-	-	-	-	-
Thursday DD aball	68mm	Х	Х	X	X	X	X
Threaded BB shell width	73mm	Х	X	Х	X	X	X
Width	83mm	-	-	-	-	-	-
Chain case	compatible	-		-	-	-	-
Crank arm	Material	Alumin <mark>um</mark>	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
- Count ann	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	-	-	Aluminum	-	-	-
-	Finish	-	-	Anodized	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	- Titanium / Aluminum	-	- Stainless steel /	- Stainless steel /	- Titanium / Aluminum
Outer ring	Material	Aluminum/CFRP	Titanium / Aluminum / CFRP	Ti + Aluminum	Stainless steel / Aluminum / CFRP **	Stainless steel / Aluminum / CFRP **	Titanium / Aluminum / CFRP
outer filly	Finish	Anodized	Anodized	-	Anodized	Anodized	Anodized
	Material	Titanium/CFRP	- Allouizeu	-	- Allouizeu	- Allouizeu	- Allouizeu
Middle ring	Finish	Shot Blasting	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
Inner ring	Finish	Plated	Plated	Plated	-	-	Plated
Outer / middle ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
fixing bolt	Finish	-	-	Anodized	-	-	-
Inner ring fiving half	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
Inner ring fixing bolt	Finish	-	-	Anodized	-	-	-
Stainless chain g	juard fixing bolt	-	-	-	-	-	-
Average weight	(175mm, w/o BB)	656 g	667 g (38-28T) 649 g (36-26T) 629 g (34-24T)	664 g (36-26T) 645 g (34-24T)	620 g (36T) 603 g (34T) 586 g (32T) 578 g (30T)	601 g (32T) 593 g (30T)	649 g (38-28T) 631 g (36-26T) 611 g (34-24T)
No	vte	*** Spider arm angle is special.	*** Spider arm angle is special.		* 36/34T is hollow, 32/30T is not hollow ** 327/30T is Stainless steel/Aluminum *** Spider arm angle is special.	- Chainline 3 mm outboard - It requires special dimension of frame which cassette position and FD mount position are 3 mm outboard Only E type and D type FD are compatible with the special frame.	*** Spider arm angle is special.

•	ries	XTR	SAINT	SAINT	DEORE XT	DEORE XT	DEORE XT
Mode		FC-M9000-1	FC-M820	FC-M825	FC-M8000-3	FC-M8000-2	FC-M8000-B2
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
	peeds	11	10	10	11	11	11
	ble chain	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X11	HG-X11	HG-X11
	ne (mm)	50.4	50.4	57.9	50	48.8	51.8
P.C.D.		96	104	104	96/64	96/64	96/64
Gear	arms	4arm ***	4arm	4arm	4arm	4arm 38-28T	4arm
Chainring c	ombination	36, 34, 32, 30T (SM-CRM90)	38, 36, 34T (SM-CR82)	38, 36, 34T (SM-CR82)	40-30-22T	36-26T 34-24T	36-26T 34-24T (NEW)
Q-facto	or (mm)	158	178	193	176	176	176
	150.0	-	-	-	-	-	-
	165.0	-	X	X	X	X	-
	167.5	-	-	-	-	-	-
Crank arm length	170.0	X -	X	X	X	X	X
(mm)	172.5 175.0	X	- X	- X	- X	- X	- X
	177.5	-	-	-	-	-	
							X (36-26T)
	180.0	-	-	-	Х	X	- (34-24T)
	With bash guard	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	•	-
,	Without chain / bash	Х	Х	X	x	X	Х
	guard With	Х	Х	X	X	X	X
Crank arm fixing bolt	Without	- X	- X	X	X -	X	X -
HOLLOV		X	X	X	X	X	X
2-PIECE C		-	-	-	-	-	-
HOLLOWTEG		-	-	-		-	-
ОСТА	ALINK	-	-	-	-	-	-
HOLLO	WGLIDE	X*	-	-	-	-	-
	Outboard	X	Х	X	X	X	X
Compatible BB type	OCTALINK	-	-	-	-	-	-
	Square	-	C14 2222	-	-	-	-
	Threaded (normal)	SM-BB93	SM-BB80	SM-BB80	BB-MT800	BB-MT800	BB-MT800
Recommended BB	Threaded (E-type) Threaded (chain case)	-		-	-	-	-
	Pressfit	SM-BB94-41A	SM-BB71-41A	SM-BB71-41C	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA
_	Threaded (normal)	-	-	-	-	-	-
Axle length of BB-UN	Threaded (E-type)	-	-		-	-	-
/ ES (mm)	Threaded (chain case)	-	-	-	-	-	-
Threaded BB shell	68mm	Х	X	-	Х	Х	X
width	73mm	X	X	-	X	X	X
	83mm	-	-	X	-	-	-
Chain case	compatible			-	-		-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish Material	Anodized Steel	Anodized Steel	Anodized Steel	Anodized Steel	Anodized Steel	Anodized Steel
Crank axle	Finish	Plated	Plated	Plated	Plated	Plated	Plated
	Material	- Indeed	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Spider arm	Finish	-	Painted	Painted	Painted	Painted	Painted
Cuido:	Material	-	-	-	-	-	-
Spider arm cover	Finish	-	-	-	-	-	-
Outer ring	Material	Stainless steel / Aluminum / CFRP **	-	-	Aluminum /GFRP	Aluminum / CFRP	Aluminum +CF composite
- Jacon Hilly	Finish	Anodized	-	-	Anodized(teeth,body)	Plated(teeth), Painted(body)	Plated (teeth) Painted (body)
Middle ring	Ma <mark>terial</mark>	-	Aluminum	Aluminum	Steel/CFRP	-	-
whole filly	Finish	-	Anodized	Anodized	Plated(teeth)	-	-
Inner ring	Material	-	-	-	Aluminum	Aluminum	Aluminum
	Finish	- Al	- ^ !	- Al	Plated	Plated	Plated
Outer / middle ring fixing bolt	Material Finish	Aluminum -	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
-	Material	-	Anodized	Anodized -	Stainless steel	Stainless steel	Stainless steel
Inner ring fixing bolt	Finish	-	-	-	-	-	-
Stainless chain o	guard fixing bolt	-	-	-	-	-	-
	(175mm, w/o BB)	616 g (36T) 600 g (34T)	847 g (38T) 837 g (36T)	858 g (38T) 849 g (36T)	773.9 g	738.9 g (38-28T) 718.1 g (36-26T)	721.6 g (36-26T)
	ote	* 36/34T is hollow, 32/30T is not hollow ** 32T/30T is Stainless steel/Aluminum *** Spider arm angle is special.	827 g (34T)	for 83mm BB shell width		695.5 g (34-24T)	- Chainline 3 mm outboard - It requires special dimension of frame which cassette position and FD mount position are 3 mm outboard Only E type and D type FD are compatible with the special frame.

SL

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RD FD

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SMCD

SMCR BB

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WH

	ries el no.	DEORE XT FC-M8000-1	DEORE XT FC-M8000-B1	DEORE XT FC-M782	DEORE XT FC-M785	SLX FC-M7000-11-2	SLX FC-M7000-11-B2
	ei no. 1	Series color	Series color	Black	Black	Series color	Series color
Color	2	-	-	Silver	Silver	-	-
Rear s	peeds	11	11	10	10	11	11
	ble chain	HG-X11	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X11	HG-X11
	ne (mm)	50.4	53.4	50	48.8	48.8	51.8
	(mm)	96	96	96/64	104/64	96/64	96/64
Gear	arms	4arm	4arm	4arm	4arm	4arm	4arm
Chainring c	ombination	34, 32, 30T (SM-CRM81)	32, 30T (SM-CRM81)	40-30-22T	40-28T 38-26T 38-24T	38-28T 36-26T 34-24T	36-26T 34-24T
Q-facto	or (mm)	176	176	175	175	176	176
	150.0	-	-	-	-	-	-
	165.0	Х	-	X	X	-	-
	167.5	-	-	-	-	-	-
Crank arm length	170.0	X -	X	X	X	X	X
(mm)	172.5 175.0	X	- X	- X	- X	- X	- X
	177.5	^				^ -	^
	180.0	Х	X (32T)	X	х		-
	With bash guard	-	- (30T) -	-		-	-
Optional chain guard	With chain guard	-	-	-	-		-
optional chain yualu	Without chain / bash	Х	Х	Х	Х	Х	Х
	guard With						
Crank arm fixing bolt	With Without	X -	X -	X	X	X -	X -
HOLLON	VTECH II	X	X	X	X	X	X
	RANKSET	-	-	-		-	-
	CH crank arm	-	-	-	-	-	-
	ALINK	-	-	-	-	-	-
HOLLO	WGLIDE	-	-	-	-	-	-
	Outboard	X	X	X	Х	X	X
Compatible BB type	OCTALINK	-	-	-	-	-	-
	Square Threaded (normal)	- BB-MT800	- BB-MT800		-	- BB-MT800	- BB-MT800
	Threaded (E-type)	DD-IVI I OUU -	DD-IVI 1 0 U U	-	-	DD-IVI I OUU -	DD-IVI I OUU -
Recommended BB	Threaded (chain case) Pressfit	- BB-MT800-PA	BB-MT800-PA	- - SM-BB71-41A	- SM-BB71-41A	- BB-MT800-PA	BB-MT800-PA
	Threaded (normal)	-	-	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case) 68mm	- X	- X	- X	- X	- X	- X
Threaded BB shell	73mm	X	X	X	X	X	X
width	83mm			-	-	-	-
Chain case	compatible	-	-	-	-	-	-
Crank arm	Material	Alumin <mark>um</mark>	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Clank ann	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	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted
	Material	- Painted	- Painted	- Painted	- Painted	- Painted	- Painted
Spider arm cover	Finish		-	-	-	-	-
0.1	Material	Stainless steel/CFRP	Steel +CF composite	Aluminum	Aluminum	Aluminum +GF composite	Aluminum +GF composite
Outer ring	Finish	Painted(body)	Plated (teeth) Painted (body)	Anodized	Anodized	Plated(teeth)	Plated(teeth)
	Material	-		Steel +CF composite	-	-	-
Middle ring	Finish	-	-	Plated	-	-	-
Inner ring	Material	-	-	Aluminum	Aluminum	Steel	Aluminum
	Finish	-	-	Plated	Plated	Painted	Plated
Outer / middle ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
fixing bolt	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing bolt	Material Finish	-	-	Stainless steel	Stainless steel -	Stainless steel	Stainless steel
Stainless chain o	guard fixing bolt	-	-	-	-	-	-
		699.8 g (34T)			727.6 g (40-28T)	788.7 g (28-28T)	764 3 a /36 367\
Average weight	(175mm, w/o BB)	694.5 g (32T) 680.0 g (30T)	698.0 g (36T)	778 g	717.6 g (38-26T) 715.8 g (38-24T)	761.4 g (36-26T) 739.8 g (34-24T)	764.3 g (36-26T) 742.8 g (34-24T)
No	ote	w/o chainring spec available for OTC, chainring is sold separately (SM-CRM80)	- Chainline 3 mm outboard - It requires special dimension of frame which cassette position and FD mount position are 3 mm outboard Only E type and D type FD are compatible with the special frame.	FD-M780-A/M781-A			Chainline 3mm outboard

Sei	ries	SLX	SLX	SLX	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	FC-M7000-11-1	FC-M7000-11-B1	FC-M7000-10-3	FC-MT700-2	FC-MT700-B2	FC-MT600-2
Color	1	Series color	Series color	Series color	Black	Black	Black
	2	-	-	-	-	-	-
	peeds	11	11	10	11	11	11
	ble chain	HG-X11	HG-X11	HG-X	HG-X11	HG-X11	HG-X11
Chainlii P.C.D.		50 96	53 96	50 96/64	48.8 *96/64	51.8 96/64	48.8 96/64
F.C.D. Gear		4arm	4arm	4arm	4arm	96/64 4arm	4arm
		34, 32, 30T	32, 30T		36-26T	36-26T	
Chainring c	ombination	(SM-CRM70)	(SM-CRM70)	40-30-22T	34-24T (NEW)	34-24T	36-26
Q-facto	or (mm)	176	176	176	175	175	177
	150.0	-	-	-	-	-	-
	165.0	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
Crank arm length	170.0	Х	X	X	X	X	X
(mm)	172.5	- X	- V	- V	- V	- V	- V
	175.0 177.5	- X	X -	X -	X	X	X -
	180.0	-	-	-	-		-
	With bash guard	_	-	-			
	With chain guard	-	-	-	-		-
Optional chain guard	Without chain / bash						
	guard	Х	X	X	X	X	Х
Crank arm fixing bolt	With	Х	X	х	X	X	Х
Crank arm namy bolt	Without	-	-			-	-
HOLLOV		Х	X	Х	Х	Х	-
2-PIECE C		-	-	-		-	Х
	H crank arm	-	-		-	-	-
ОСТА		-	-		-	-	-
HOLLO		-	-	-	-	-	-
Compatible BB type	Outboard	Х	X	X	X	X	X
	OCTALINK	-	-	-	-	-	-
	Square Threaded (normal)	BB-MT800	BB-MT800	BB-MT800	BB-MT800	- BB-MT800	BB-MT800
	Threaded (E-type)	- BB-W11800	- BB-IVI 1 000	- BB-IVI 1 000	- BB-W1000	- BB-W11000	- BB-W1000
Recommended BB	Threaded (chain case)	-		_	_	_	_
	Pressfit	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA
	Threaded (normal)	-	-	-	-	-	-
Axle length of BB-UN	Threaded (E-type)	-	-	-	-	-	-
/ ES (mm)	Threaded (chain case)	-	-	-	-	-	-
	68mm	Х	X	Х	Х	Х	Х
Threaded BB shell width	73mm	Х	Х	Х	Х	Х	Х
width	83mm	-	-	-	-	-	-
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	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish Material	Painted -	Painted -	Painted -	Painted -	Painted -	Painted -
Spider arm cover	Material Finish	-	-	-	-	-	
					- Aluminum +GF	- Aluminum +GF	- Aluminum +GF
Outer ring	Material	Steel +GF composite	Steel +GF composite	Aluminum	composite	composite	composite
	Finish	Plated(teeth)	Plated(teeth)	Anodized	Plated(teeth)	Plated(teeth)	Anodized
Middle ::	Material	-	-	Steel +GF composite	-	-	-
Middle ring	Finish	-	-	Plated(teeth)	-	-	-
Inner ring	Material	-	-	Steel	Aluminum	Aluminum	Steel
initer rinig	Finish	-	-	Painted	Plated	Plated	Painted
Outer / middle ring	Material	Aluminum	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel
fixing bolt	Finish	Anodized	Anodized	Anodized	-	-	-
Inner ring fixing bolt	Material	-	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain o	juard fixing bolt	- 724.4 (247)	-	-	-	-	-
Average weight	(175mm, w/o BB)	721.1 g (34T) 715.4 g (32T) 699.3 g (30T)	718.3 g (32T) 702.3 g (30T)	801.1 g (40-30-22T)	735.4 g (36-26T) 708.9 g (34-24T)	738.9 g (36-26T) 712.4 g (34-24T)	-
No	ote	w/o chainring spec available for OTC, chainring is sold separately (SM-CRM70)	- Chainline 3mm outboard - w/o chainring spec available for OTC, chainring is sold separately (SM-CRM70)		* Spider arm angle is special.		

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Sei	ries	SHIMANO	SHIMANO	ZEE	ZEE	SHIMANO	SHIMANO
Mode		FC-MT600-B2	FC-MT500-3	FC-M640	FC-M645	FC-M627	FC-M627-B
Color	1	Black	Black	Series color	Series color	Black	Black
Rear s	peeds	- 11	10	- 10	10	10	10
	ble chain	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Chainli		51.8	50	50.4	57.9	48.8	51.8
	(mm)	96/64	96/64	104	104	104/64	104/64
Gear	arms	4arm	4arm	4arm	4arm	4arm	4arm
Chainring c	ombination	36-26	40-30-22T	38, 36, 34T (FC-M640/M645 chainring)	38, 36, 34T (FC-M640/M645 chainring)	38-24T 36-22T	36-22T
Q-facto	or (mm)	177	177	174.7	189.7	176	176
	150.0	-	-	-	-	-	-
	165.0	-	-	X -	X -	-	-
Crank arm length	167.5 170.0	X	- X	X	- X	- X	X
(mm)	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	Х	Х
	177.5	-	-	-	-		-
	180.0	-	-	-	-	-	-
	With bash guard With chain guard	-	- X	-		-	-
Optional chain guard	Without chain / bash						
	guard	Х	Х	Х	Х	Х	Х
Crank arm fixing bolt	With	X	X	X	X	X	Х
	Without	-	-	-			-
2-PIECE C	VTECH II RANKSET	- X	- X	X	X	- X	- X
HOLLOWTEG		-	-			-	-
	ALINK	-	-	-	-	-	-
HOLLO!	WGLIDE	-	-	-	-	-	-
	Outboard	X	X	X	X	X	X
Compatible BB type	OCTALINK	-	-	-	-	-	-
	Square Threaded (normal)	- BB-MT800	SM-BB52	SM-BB52	- SM-BB52	- SM-BB52	- SM-BB52
	Threaded (E-type)	-	SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52
Recommended BB	Threaded (chain case)	-		-	-	-	-
	Pressfit	BB-MT800-PA	BB-MT500-PA	SM-BB71-41A	SM-BB71-41C	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN	Threaded (normal)	-	-	-	-	-	-
/ ES (mm)	Threaded (E-type) Threaded (chain case)	-	-	-	-	-	-
	68mm	X	X	X	-	X	X
Threaded BB shell	73mm	X	X	X	-	X	X
width	83mm	·	_	-	Х	-	-
Chain case	compatible	-		-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish Material	Anodized Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel
Crank axle	Finish	Plated	Plated	Plated	Plated	Plated	Plated
	Material	Aluminum	Aluminum	-	-	Aluminum	Aluminum
Spider arm	Finish	Painted	Painted	-	-	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
Spider dilli Cover	Finish		-	-	-	-	-
Outer ring	Material	Aluminum +GF composite	Aluminum	-	-	Aluminum	Aluminum
Jaces mily	Finish	Anodized	Anodized	-	-	Anodized	Anodized
Middle ring	Material	-	Steel	Aluminum	Aluminum	-	-
who are ring	Finish	-	Plated	Anodized	Anodized	-	-
Inner ring	Material Finish	Steel	Steel	-	-	Steel	Steel
Outer / middle ring	Finish Material	Painted Stainless steel	Painted Stainless steel*	- Stainless steel	- Stainless steel	Painted Stainless steel	Painted Stainless steel
fixing bolt	Finish	-	-	-	-	-	-
	Material	Stainless steel	Stainless steel	-	-	Stainless steel	Stainless steel
Inner ring fixing bolt	Finish	-	-	-	-	-	-
Stainless chain g	guard fixing bolt	-	-	- 020 ~ /20T\	-	-	-
Average weight	(175mm, w/o BB)	-	-	828 g (38T) 817 g (36T) 807 g (34T)	858 g (38T) 847 g (36T) 837 g (34T)	-	-
No	ote		* it is fixed on the threaded middle ring.		for 83mm BB shell width		- Chainline 3 mm outboard - It requires special dimension of frame which cassette position and FD mount position are 3 mm outboard Only E type and D type FD are compatible with the special frame.

- C	ries	DEORE	DEORE	DEORE	DEORE	DEORE	SHIMANO
Mode		FC-M6000-3	FC-M6000-2	FC-M6000-B2	FC-M617	FC-M617-B2	FC-MT500-2
Wiode	1	Series Black	Series Black	Series Black	Black	Black	Black
Color	2	Series black	-	Jeries Black	Silver	Silver	- Black
Poars	peeds	10	10	10	10	10	10
	ble chain	HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10-speed	HG-X	HG-X 10speed
		50	48.8	51.8	48.8		48.8
Chainlin						51.8	
	(mm)	96/64	96/64	96/64	104/64	104/64	96/64
Gear	arms	4arm	4arm	4arm	4arm	4arm	4arm
Chainring c	ombination	40-30-22T	38-28T 36-26T 34-24T	36-26T	38-24T 36-22T	36-22T	36-26T
Q-facto	or (mm)	176	176	176	176	176	177
	150.0	-	-	-	-	-	-
	165.0	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
Crank arm length	170.0	Х	Х	X	X	X	Х
(mm)	172.5	-	-	-	-		-
	175.0	Х	Х	Х	Х	Х	Х
	177.5	-	-	-	-		-
	180.0	-	-	-	-		-
	With bash guard	-	-	-	-		-
	With chain guard	-	-	-	-		-
Optional chain guard	Without chain / bash			A .			
	guard	X	Х	X	Х	Х	Х
	With	Х	Х	X	X	Х	Х
Crank arm fixing bolt	Without	-	-			-	-
HOLLOV	VTECH II	Х	Х	X	-	-	-
2-PIECE C	RANKSET	-	-	-	Х	Х	Х
HOLLOWTEC		-	<u> </u>		-	-	-
	ALINK	-	-		-	-	-
	WGLIDE	_			-	-	-
110220	Outboard	Х	Х	Х	Х	Х	Х
Compatible BB type	OCTALINK				-	-	-
Compatible BB type	Square	-	-	-	_	_	_
	Threaded (normal)	SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52
	Threaded (E-type)	-		-	SM-BB52	SM-BB52	-
Recommended BB	Threaded (chain case)		-	_	-	-	-
	Pressfit	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
	Threaded (normal)	BB-IVIT 300-FA	BB-WITSOU-PA	DD-IVIT DUU-FA	BB-WIT300-FA	DB-IVIT JUU-FA	BB-WITSUU-FA
Axle length of BB-UN				-	-	-	-
/ ES (mm)	Threaded (E-type)			-			-
	Threaded (chain case)	V -	7 -	-	-	-	
Threaded BB shell	68mm	· v	V	V	V	V	V
width		X	Х	X	X	X	X
widii	73mm	X	X	Х	Х	X	Х
	73mm 83mm	X	X -	X -	X -	X -	X -
	73mm 83mm compatible	X	X - -	X -	X -	X -	X - -
	73mm 83mm compatible Material	X Aluminum	X Aluminum	X Aluminum	X Aluminum	X Aluminum	X - - Aluminum
Chain case	73mm 83mm compatible Material Finish	X Aluminum Anodized	X Aluminum Anodized	X Aluminum Anodized	X Aluminum Painted	X - - Aluminum Painted	X - - Aluminum Painted
Chain case	73mm 83mm compatible Material Finish Material	X Aluminum Anodized Steel	X Aluminum Anodized Steel	X Aluminum Anodized Steel	X Aluminum Painted Steel	X Aluminum Painted Steel	X Aluminum Painted Steel
Chain case Crank arm	73mm 83mm compatible Material Finish Material	Aluminum Anodized Steel Plated	X Aluminum Anodized Steel Plated	X Aluminum Anodized Steel Plated	X Aluminum Painted Steel Plated	X Aluminum Painted Steel Plated	X Aluminum Painted Steel Plated
Chain case Crank arm	73mm 83mm compatible Material Finish Material Finish Material	Aluminum Anodized Steel Plated Aluminum	X Aluminum Anodized Steel Plated Aluminum	X Aluminum Anodized Steel Plated Aluminum	X Aluminum Painted Steel Plated Aluminum	X Aluminum Painted Steel Plated Aluminum	X Aluminum Painted Steel Plated Aluminum
Chain case Crank arm Crank axle	73mm 83mm compatible Material Finish Material	Aluminum Anodized Steel Plated	X Aluminum Anodized Steel Plated	X Aluminum Anodized Steel Plated	X Aluminum Painted Steel Plated	X Aluminum Painted Steel Plated	X Aluminum Painted Steel Plated
Chain case Crank arm Crank axle Spider arm	73mm 83mm compatible Material Finish Material Finish Material	Aluminum Anodized Steel Plated Aluminum	X Aluminum Anodized Steel Plated Aluminum	X Aluminum Anodized Steel Plated Aluminum	X Aluminum Painted Steel Plated Aluminum	X Aluminum Painted Steel Plated Aluminum	X Aluminum Painted Steel Plated Aluminum
Chain case Crank arm Crank axle	73mm 83mm compatible Material Finish Material Finish Material Finish	Aluminum Anodized Steel Plated Aluminum Painted	X Aluminum Anodized Steel Plated Aluminum Painted	X Aluminum Anodized Steel Plated Aluminum Painted	X Aluminum Painted Steel Plated Aluminum Painted	X Aluminum Painted Steel Plated Aluminum Painted	X
Chain case Crank arm Crank axle Spider arm	73mm 83mm compatible Material Finish Material Finish Material Finish Material Finish Material Finish	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite	X Aluminum Painted Steel Plated Aluminum Painted Aluminum	X Aluminum Painted Steel Plated Aluminum Painted Aluminum	X
Chain case Crank arm Crank axle Spider arm Spider arm cover	73mm 83mm compatible Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Anodized Steel Plated Aluminum Painted - Aluminum Anodized	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized	X
Chain case Crank arm Crank axle Spider arm Spider arm cover	73mm 83mm compatible Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Anodized Steel Plated Aluminum Painted Aluminum Anodized Steel +GF composite	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized -	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized -	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized -	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized -	X
Chain case Crank arm Crank axle Spider arm Spider arm cover Outer ring	73mm 83mm compatible Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Anodized Steel Plated Aluminum Painted Aluminum Anodized Steel +GF composite Plated(teeth)	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized	X
Chain case Crank arm Crank axle Spider arm Spider arm cover Outer ring Middle ring	73mm 83mm compatible Material Finish Material	Aluminum Anodized Steel Plated Aluminum Painted Aluminum Anodized Steel +GF composite Plated(teeth) Steel	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized - Steel	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized - Steel	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized - Steel	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized - Steel	X
Chain case Crank arm Crank axle Spider arm Spider arm cover Outer ring	73mm 83mm compatible Material Finish	Aluminum Anodized Steel Plated Aluminum Painted Aluminum Anodized Steel +GF composite Plated(teeth) Steel Painted	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized Steel Painted	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized - Steel Plated	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized - Steel Painted	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized Steel Painted	X
Chain case Crank arm Crank axle Spider arm Spider arm cover Outer ring Middle ring Inner ring Outer / middle ring	73mm 83mm compatible Material Finish Material	Aluminum Anodized Steel Plated Aluminum Painted Aluminum Anodized Steel +GF composite Plated(teeth) Steel	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized - Steel	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized - Steel	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized - Steel	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized - Steel	X
Chain case Crank arm Crank axle Spider arm Spider arm cover Outer ring Middle ring Inner ring	73mm 83mm compatible Material Finish	Aluminum Anodized Steel Plated Aluminum Painted Aluminum Anodized Steel +GF composite Plated(teeth) Steel Painted	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized Steel Painted	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized - Steel Plated	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized - Steel Painted	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized Steel Painted	X
Chain case Crank arm Crank axle Spider arm Spider arm cover Outer ring Middle ring Inner ring Outer / middle ring fixing bolt	73mm 83mm compatible Material Finish Material	Aluminum Anodized Steel Plated Aluminum Painted Aluminum Anodized Steel +GF composite Plated(teeth) Steel Painted Stainless steel	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized Steel Painted Stainless steel	X	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized - Steel Painted	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized Steel Painted Stainless steel	X
Chain case Crank arm Crank axle Spider arm Spider arm cover Outer ring Middle ring Inner ring Outer / middle ring	73mm 83mm compatible Material Finish	Aluminum Anodized Steel Plated Aluminum Painted Aluminum Anodized Steel +GF composite Plated(teeth) Steel Painted Stainless steel Black	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized Steel Painted Stainless steel Black	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized - Steel Plated Stainless steel Black	X - Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized - Steel Painted - Steel Painted - Steel Painted	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized - Steel Painted Stainless steel -	X
Chain case Crank arm Crank axle Spider arm Spider arm cover Outer ring Middle ring Inner ring Outer / middle ring fixing bolt Inner ring fixing bolt	73mm 83mm compatible Material Finish	Aluminum Anodized Steel Plated Aluminum Painted Aluminum Anodized Steel +GF composite Plated(teeth) Steel Painted Stainless steel Black	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized Steel Painted Stainless steel Black	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized - Steel Plated Stainless steel Black	X - Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized - Steel Painted Stainless steel - Stainless steel	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized Steel Painted Stainless steel - Stainless steel	X
Chain case Crank arm Crank axle Spider arm Spider arm cover Outer ring Middle ring Inner ring Outer / middle ring fixing bolt Inner ring fixing bolt	73mm 83mm compatible Material Finish	Aluminum Anodized Steel Plated Aluminum Painted Aluminum Anodized Steel +GF composite Plated(teeth) Steel Painted Stainless steel Black Stainless steel	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized Steel Painted Stainless steel Black Stainless steel	X Aluminum Anodized Steel Plated Aluminum Painted Aluminum +GF composite Anodized - Steel Plated Stainless steel Black Stainless steel	X - Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized - Steel Painted Stainless steel - Stainless steel - Stainless steel	X Aluminum Painted Steel Plated Aluminum Painted Aluminum Anodized Steel Painted Stainless steel - Stainless steel Stainless steel	X

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Ser	ies	SHIMANO	ALIVIO	ALIVIO	ALIVIO	SHIMANO	SHIMANO
Mode	el no.	FC-MT500-B2	FC-M4050	FC-M4050-B2	FC-M4060	FC-M4000	FC-M3000
	1	Black	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Rear s	peeds	10	9	9	9	9	9
Compatible chain		HG-X 10speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Chainlir		51.8	50	51.8	50	50	50
P.C.D.		96/64	96/64	104/64	104/64	96/64	96/64
Gear		4arm	4arm	4arm	4arm	4arm	4arm
Chainring c		36-26T	40-30-22T	36-22T	48-36-26T	40-30-22T	40-30-22T
Q-facto		177	176	176	176	179.8	179.1
Q Tucks	150.0	-	-	-	-	-	-
	165.0	_	X	_	X	Х	Х
	167.5	-	-	-	-	-	-
Construction of	170.0	Х	X	X	X	Х	Х
Crank arm length (mm)	170.5					-	-
(,	175.0	X	X	X	X	X	X
	177.5	-	-	-		-	-
	180.0	-	-	-	-		-
	With bash guard	-	-	-	-	-	-
Optional chain guard	With chain guard	-	X	-	X	X	Х
	Without chain / bash guard	Х	x	x	х	X	X
	With	Х	X	X	X	Х	X
Crank arm fixing bolt	Without	^	_	^	^		-
HOLLOV		<u> </u>	-			-	<u> </u>
HOLLOV			•				
2-PIECE C		Х	X	X	X	-	-
HOLLOWTEC		-	-		-	-	-
ОСТА		-			-	Х	-
HOLLO		-	-	-	-	-	-
	Outboard	Х	X	Х	X	-	-
Compatible BB type	OCTALINK	-	-	·	-	Х	-
	Square	-	-	-	-	-	X
	Threaded (normal)	SM-BB52	SM-BB52	SM-BB52	SM-BB52	BB-ES300	BB-UN26
Recommended BB	Threaded (E-type)	-	-	-	-	-	-
Recommended BB	Threaded (chain case)		-	-	-	-	-
	Pressfit	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	-	-
A la la code de portos	Threaded (normal)	-	-	-	-	118	LL113
Axle length of BB-UN / ES (mm)	Threaded (E-type)	-	-	-	-	-	-
, 23 ()	Threaded (chain case)		-	-	-	-	-
	68mm	X	Х	Х	Х	Х	Х
Threaded BB shell width	73mm	X	Х	Х	Х	-	Х
width	83mm	-	-	-	-	-	-
Chain case	compatible	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank arm	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	-	-
Crank axle	Finish	Plated	Plated	Plated	Plated	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	-
Spider arm	Finish	Painted	Painted	Painted	Painted	Painted	-
	Material	-	-	-	-	-	-
Spider arm cover	Finish	-	-	-	-	-	
	FIIIISII	- Aluminum +GF	-	-	-	-	-
Outer ring	Material	composite	Steel	Steel	Steel	Steel	Steel
y	Finish	Anodized	Painted	Painted	Painted	Painted	Painted
	Material	-	Steel	-	Steel	Steel	Steel
Middle ring	Finish	-	Painted	-	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Inner ring	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Out = 1 - 1 1 1 1	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Outer / middle ring fixing bolt		Stailliess steel	Stanness steer	Stainless steel	Stailless steel	Stailliess steel	Stamless steel
iig boit	Finish	Ctainless start	Ctainless start	Ctainlass start	Ctainless start	Ctainless st!	Ctainless -+1
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain g		-	-	-	-	-	-
Average weight		-	-	-	-	-	-
No	te						

Ser	ries	ACERA	SHIMANO	SHIMANO	ALTUS	SHIMANO	ACERA
Mode		FC-M3000-B2	FC-MT200	FC-MT100	FC-M2000	FC-M371	FC-M361
Wood	1	Series color	Black	Black	Series color	Black	Black
Color		Series Color		DIACK	Series Color		
	2	-	-	-	-	-	-
Rear s	peeds	9	9	9	9	9	8/7
Compatil	ble chain	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG for 9-speed	HG for 8/7-speed
Chainlir	ne (mm)	51.8	50	50	50	50	50
P.C.D.	(mm)	104/64	Riveted	Riveted	Riveted	Riveted	104/64
Gear	arms	4arm	4arm	4arm	4arm	4arm	4arm
						44-32-22T	48-38-28T
Chainring c	ombination	36-22T	40-30-22T	40-30-22T	40-30-22T	48-36-26T	42-32-22T
Q-facto	or (mm)	179.1	176	179.2	179.6	180.5	185.9
4	150.0	-	-	-	-	-	-
	130.0	-	-	_	-	-	-
	165.0	-	-	-	X	-	- (48-38-28T) X* (42-32-22T)
	167.5	-	-	_	-	-	X (42 32 221)
Crank arm length							
(mm)	170.0	Х	X	X	X	X	X
()	172.5	=	-	-	-		-
	175.0	Х	X	X	X	X	Х
	177.5	-	-	-	-	- /	-
	180.0	-	-	-		-	-
	With bash guard	-	-	-		-	_
	With chain guard	<u>-</u>	X	X	X	X	X
Optional chain guard	-		۸	^	^	^	^
-	Without chain / bash guard	X	x	X	X	х	Х
		V	V	V	V	V	V
Crank arm fixing bolt	With	Х	X	X	X	Х	Х
	Without	-	-	-	-	-	-
HOLLOV	VTECH II	-	-	-	-	-	-
2-PIECE C	RANKSET	-	X	-	-	-	-
HOLLOWTEC	H crank arm	-	-			-	-
OCTA	IINK	_				-	_
HOLLO		_	-		_	_	_
HOLLO	Outboard		X		_	-	_
Compatible BB type			^	-			
	OCTALINK	-	•	-	-	-	-
	Square	X	-	Х	X	X	X
	Threaded (normal)	BB-UN26	SM-BB52	BB-UN100	BB-UN100	BB-UN26	BB-UN26
	Threaded (E-type)	-	-	-	-	-	-
Recommended BB	Threaded (chain case)		-	-	-	BB-UN26-K	BB-UN26-K
	Pressfit		BB-MT500-PA	-	-	-	-
	Threaded (normal)	LL113		LL123	LL123	LL123	LL123
Axle length of BB-UN	Threaded (E-type)	LLIIJ		-	-	-	-
/ ES (mm)			-				
	Threaded (chain case)	•	-	-	-	LL123-K	LL123-K
Threaded BB shell	68mm	X	X	X	X	X	X
width	73mm	X	Х	X	X	X	X
	83mm	-	-	-	-	-	-
Chain case	compatible		-	-	-	Х	Х
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank arm	Finish	Painted	Painted	Painted	Painted	Painted	Painted
		- Painted					
Crank axle	Material		Steel	-	-	-	-
	Finish	-	Plated	-	-	-	-
Spider arm	Material	-	-	-	-	-	-
Spider ailli	Finish	•	-	-	-	-	-
6.11	Material	-	-	-	-	Resin	-
Spider arm cover	Finish	-	-	-	-	Resin	-
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Outer ring	Finish						
		Painted	Painted	Painted	Painted	Painted	Painted
Middle ring	Material	-	Steel	Steel	Steel	Steel	Steel
	Finish	-	Painted	Painted	Painted	Painted	Painted
Innor rin-	Material	Steel	Steel	Steel	Steel	Steel	Steel
Inner ring	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer / middle ring	Material	Stainless steel	-	-	-	-	Stainless steel
fixing bolt	Finish	-	_	_	-	-	-
J		Stainless steel	-		-		
Inner ring fixing bolt	Material	Stainless steel		-		-	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain g	juard fixing bolt	-	-	-	-	-	-
Average weight	(175mm, w/o BB)	•	-	-	-	-	-
Ne	ote		SHIMANO logo	SHIMANO logo		SHIMANO logo	SHIMANO logo, * 48-38-28 Silver w

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Ser	ies	ALTUS	SHIMANO	SHIMANO	SHIMANO	DXR
Mode		FC-M311	FC-TY701	FC-TY501	FC-TY301	FC-MX71
	1	Black	Metallic Black	Black	Black	Series color
Color	2	-	Light Grey Metallic, Silver	Silver	-	-
Rear s		8/7	8/7/6	8/7/6	8/7/6	1
			HG/UG for	HG/UG for	HG/UG for	c: 1 1
Compatil	ole chain	HG for 8/7-speed	8/7/6-speed	8/7/6-speed	8/7/6-speed	Single speed
Chainlir	ne (mm)	50	47.5 / 47.5+t	47.5 / 47.5+t	47.5 / 47.5+t	44
P.C.D.	(mm)	Riveted	Riveted	Riveted	Riveted	104/64
Gear	arms	4arm	4arm	4arm	4arm	4arm
Chainring c	ombination	48-38-28T	48-38-28T	48-38-28T	48-38-28T	34, 38, 41, 42,
Q-factor (mm)		42-32-22T	42-34-24T	42-34-24T	42-34-24T	43, 44, 46T
Q-тасто		187.9	185.5	185.5	181.5	173
	150.0 165.0	-	X	X	X	- X
	167.5	-	-	-	-	-
Construction (I	170.0	X	X	X	X	X
Crank arm length (mm)	170.0	-		-	^	-
(11111)	175.0	X	X	X	X	X
	177.5	-		-	^	-
	180.0	-	-	-		X
	With bash guard	_	-	-		^
	With chain guard	X	X (separate type)	X (integrated type)	X (integrated type)	-
Optional chain guard	Without chain / bash					
	guard	Х	X	Х	Х	X
Curanta anno 6 de la de	With	Х	X	Х		Х
Crank arm fixing bolt	Without	-	-	Х	X	-
HOLLOV	VTECH II	-	-		-	Х
2-PIECE C	RANKSET	-	-	-	-	Х
HOLLOWTEC	H crank arm	-	-	-	-	Х
OCTA	LINK	-	-	-	-	-
HOLLO	WGLIDE	-	_	-	-	-
	Outboard	-	-	-	-	Х
Compatible BB type	OCTALINK	-	-	-	-	-
	Square	Х	X	Х	Х	-
	Threaded (normal)	BB-UN26	BB-UN100	BB-UN100	BB-UN100	-
Documended DD	Threaded (E-type)	-	-	-	-	-
Recommended BB	Threaded (chain case)	BB-UN26-K	BB-UN100-K	BB-UN100-K	BB-UN100-K	-
	Pressfit	-	-	-	-	-
Aula lawath of DD IIN	Threaded (normal)	LL123	D-NL	D-NL	D-NL	-
Axle length of BB-UN / ES (mm)	Threaded (E-type)	-	-	-	-	-
, 25 (IIIII)	Threaded (chain case)	LL123-K	D-NL K	D-NL K	D-NL K	-
Threaded BB shell	68mm	X	Х	X	X	Х
width	73mm	X	X	X	Х	X
	83mm	-	-	-	-	-
Chain case	·	X	X	X	Х	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Anodized
Crank axle	Material	-	-	-	-	Steel
	Finish		-	-	-	Plated
Spider arm	Material	-	-	-	-	Aluminum
	Finish	-	-	-	-	Anodized
Snider arm saver	Material	Resin	Resin	Resin	Resin	-
Spider arm cover	Fini <mark>sh</mark>	Resin	Painted	- (black) Painted (silver)	-	-
	Material	Steel	Steel	Steel	Steel	Aluminum
Outer ring	Finish	Painted	Painted (Metallic Black) Painted_Black (Light Grey Metallic)	Painted	Painted	Anodized
			Painted_Silver (Silver)			
	Material	Steel	Steel	Steel	Steel	-
Middle ring	Finish	Painted	Painted (Metallic Black) Painted_Silver (Light Grey Metallic) Painted_Silver (Silver)	Painted	Painted	-
	Material	Steel	Steel	Steel	Steel	-
Inner ring	Finish	Painted	Painted (Metallic Black) Painted_Black (Light Grey Metallic) Painted_Silver (Silver)	Painted	Painted	-
Outer / middle vine	Material	-	Tunica_Jilvei (Jilvei)	-	_	Aluminum
Outer / middle ring fixing bolt	Finish	-	-	-	-	Anodized
	Material	-	-	-	-	- Allouizeu
Inner ring fixing bolt	Finish	-	-	-	-	-
Stainless chain g		-	-	-	-	-
Average weight		-	-	-	-	765 g (w/o chainring)
						BMX racing 68mm BB
No	rie	SHIMANO logo				shell width

МТВ

Chain device

Series	SAINT		
Model no.	SM-CD50		
Color	Series color		
Spec	w/one guard		
Chain compatibility	9, 10-speed		
Chain line (mm)	50/75		
Top gear teeth	38, 36, 34T		
Assumed rear sprocket teeth	11-23T_36T		
Mount	ISCG03 ISCG05		
Rear suspension stroke	0-250 mm		
Back plate	Aluminum		
Chainguide	Aluminum		
Note			



Ser	ine	XTR	DEORE XT	SLX	SHIMANO	SHIMANO
Mode		SM-CRM91	SM-CRM81	SM-CRM70	SM-CR82	SM-CR80-A
Mode						
	1	Standard	Standard	Standard	Black	Black
Color	2	-	-	-	-	-
	3		·	-	-	-
Gears	•	1	1	1	1	1
	11-speed	Х	Х	Х	-	-
Rear speed	10-speed	Х	Х	X	Х	-
	9-speed		-	-	Х	X
	Single			-	-	Х
DYNAMIC CHAIN	ENGAGEMENT+	х	Х	Х	-	-
	46T		-	-	-	X
	44T		-	-	-	X
	43T					X
	42T		-	-	-	Х
	41T		-	-	-	Х
Chainring teeth	40T	-	-	-	-	-
	38T	-	-	-	Х	Х
	36T	Х	-	-	Х	-
	34T	Х	Х	х	Х	Х
	32T	Х	Х	Х	-	-
	30T	Х	Х	х	-	-
	Double	-	-	-	-	-
Chain guard type	Single	-	-	-	-	-
	W/O CG	Х	Х	х	X*	Х
P.C.D.	(mm)	96	96	96	104	104
Chainring	Material	Aluminum	Stainless steel (teeth)/ CFRP (body)	Stainless steel (teeth) /GFRP (body)	Aluminum	Aluminum
Chaming	Finish	Anodized*	Plated (teeth) /Painted (body)	Plated(teeth)	Anodized	Anodized
Note		* 32, 34, 36T anodized, 30T painted			* SM-CD50 bash guard is compatible	

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VVH

Bottom Bracket (HOLLOWTECH II)

Series		XTR	XTR	SHIMANO	SHIMANO	SHIMANO	SAINT/ZEE
Model no.		SM-BB93	SM-BB94-41	BB-MT800	BB-MT800-P	SM-BB71-41	SM-BB80
HOLLOWTECH II BB	Threaded BB type	Х	-	Х	-	-	Х
	Press-Fit type	-	Х	-	Х	х	-
Threaded BB shell width (mm)	68	Х	-	X	-	-	X
	73	Х	-	Х	-	-	Х
	83	-	-	-	-	-	X
	84.5	-	-	-	-	-	-
	89.5	-	X (SM-BB94-41A)	-	X (BB-MT800-PA)	X (SM-BB71-41A)	-
Press-Fit BB shell width (mm)	92	-	X (SM-BB94-41A)	-	X (BB-MT800-PA)	X (SM-BB71-41A)	-
	104.5	-	-	-	-	-	-
	107	-	-	-	-	-	-
Small ball bearing		Х	Х	-	-	-	-
Adamtau	Material	Aluminum	Resin	Aluminum	Resin	Resin	Aluminum
Adapter	Finish	Anodized	-	Anodized			Anodized
Spacer	Material	Aluminum	Resin	Aluminum	Resin	Resin	Resin
	Finish	Anodized	-	-		-	-
Average weight		73 g	58 g	82.1 g	68.2 g	71 g	95 g (68/73 mm) 96g (83 mm)
No	Note						

Ser	ries	SAINT/ZEE	SHIMANO	SHIMANO	
Mode	el no.	SM-BB71-41	SM-BB52	BB-MT500-P	
HOLLOWTECH II BB	Threaded BB type	-	X	-	
	Press-Fit type	Х		х	
	68	-	Х	-	
Threaded BB shell width (mm)	73	-	х	-	
	83	-	-	-	
	84.5		-	-	
	89.5			X (BB-MT500-PA)	
Press-Fit BB shell width (mm)	92	-		X (BB-MT500-PA)	
, ,	104.5	X (SM-BB71-41C)	-	-	
	107	X (SM-BB71-41C)	-	-	
Small bal	l bearing	-	-	-	
Adamtau	Material	Resin	Aluminum	Resin	
Adapter	Finish		Painted	-	
Spacer	Material	Resin	Resin	Resin	
Spacer	Finish	-	-	-	
Average weight		73 g	-	-	
Note					

Bottom Bracket

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		BB-ES51	BB-ES51-E	BB-ES51-K	BB-ES51-AK	BB-ES300	BB-ES300-E	
		dard	Х	-	-	-	X	-
Structure	E-t	ype	-	X	-	-	-	X
	For cha	in case	-	-	X	X	-	-
	Hollow spindle		Х	Х	Х	Х	Х	Х
Spindle	ОСТА	LINK	Х	Х	Х	Х	Х	Х
•	Square type		-	-	-	-	-	-
	68							
	107	(BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73		_		-	_	_
		(BC1.37)	-	-	-	-	-	-
	MM110	68	-	_	_	_	_	_
		(BC1.37)						
		70 (M36)	-	-	-	-	-	-
		73 (BC1 27)	-	-	-	-	-	-
		(BC1.37) 68						
	1	(BC1.37)	-	-	-	-		-
	LL113	70 (M36)	-	-	_	<u> </u>	-	-
		73						
		(BC1.37)	-	-	-	-	-	-
		68						
		(BC1.37)	Х	-	-		X	Х
	113	70 (M36)	-	-	-	-	X	-
		73	V					
		(BC1.37)	Х	-			Х	-
		68	_	_			_	_
	D-H	(BC1.37)	•	-			•	-
		70 (M36)	-	-	-	-	-	-
	YL117	68	_	_		_	_	_
	12117	(BC1.37)						
	118	68	-			_	_	-
		(BC1.37)				<u> </u>		
		68 (DC4.37)	Х	-	-	-	Х	Х
	118	(BC1.37)						
		70 (M36)	-	•	-	-	X	-
Auto louado / aball		73 (BC1.37)	X	-	-	-	X	-
Axle length / shell width (mm)		68						
width (illili)	XL118	(BC1.37)	-	-	-	-	-	-
		70 (M36)		-	-	-	-	-
		73mm		-	-	-	-	-
		68						
		(BC1,37)	X		-	-	Х	X
	121	70 (M36)	Х	-	-	-	-	-
		73						
		(BC1.37)		-	-	-	Х	Х
		68	v				V	v
	126	(BC1.37)	Х	-	-	-	X	Х
		73		_	_	_	Х	Х
		(BC1.37)		-	-	-	^	^
	D-NL 122	68		_	_	_	-	-
		(BC1.37)						
		70 (M36)	-	-	-	-	-	-
		73	-	-	-	-	-	-
		(BC1.37)						
	D-EL 127	68 (BC1.37)	-	-	-	-	-	-
		_	-	_	-	-	-	
		70 (M36) 73	-	-	-	-	-	-
		/3 (BC1.37)	-	-	-	-	-	-
	LL123	68						
		(BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73						
		(BC1.37)	-	-	-	-	-	-
	42262	68						
	123SP	(BC1.37)	-	-	-	-	-	-
	130	68	-	_	-	-	-	_
	130 (BC1.37)			-	-	-	-	-
Spindle	Material Finish		Steel	Steel	Steel	Steel	Steel	Steel
- Spinule			Painted (Black)	Painted (Black)	Painted (Black)	Painted (Black)	Bonderlube	Bonderlube
Left hand adapter	Material		Resin	Resin	Resin	Resin	Resin	Resin
Left hand adapter	Fin	ish	-	-	-	-	-	-
	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Right hand adapter /								
Right hand adapter / Shell	Fin	ish	Nickel Chrome	Nickel Chrome	Nickel Chrome	Nickel Chrome	Phosphate coated	Phosphate coate

SL

SMSL

BL

RD

FD

BR

BR

BR

FC

SMCR

ВВ

ВВ

MF

НВ

НВ

FH

WH

Bottom Bracket

	ries el no.		SHIMANO BB-ES300-K	SHIMANO BB-ES300-AK	SHIMANO BB-UN55	SHIMANO BB-UN26	SHIMANO BB-UN26-E	SHIMANO BB-UN26-K
iviode		dard	- BB-E5300-K	- BB-E5300-AK	X X	X X	- -	- BB-UN20-K
Structure		ype	-	-	-	-	Х	-
		in case	Х	Х	-	-	-	Х
		spindle	Х	X	-	-	-	-
Spindle		ALINK	Х	Х	-	-	-	-
	Squar	e type	-	-	X	X	Х	X
		68 (BC1.37)	-	-	X	-	-	-
	107	70 (M36)	-	-	X	-	-	-
		73 (BC1.37)	-	-	Х	-	-	-
		68 (BC1.37)	-	-	х	X*	Х	Х
	MM110	70 (M36)	-	-	X	X	-	-
		73 (BC1.37)	-	-	х	х	-	-
		68 (BC1.37)	-	-	X	X*	Х	-
	LL113	70 (M36)	-	-	X	х		-
		73	_	-	X	x	х	-
		(BC1.37) 68					,	
	113	(BC1.37)	-	-	-	-		-
	1113	70 (M36) 73						
		(BC1.37)	-	-	-		-	-
	D-H	68 (BC1.37) 70 (M36)	-	-	X		-	-
	YL117	68 (BC1.37)	-	-	-	X* (CL:47.5) X (CL:45)	X* (CL:47.5)	X* (CL:47.5)
	118	68	-	_		X (CL.43)	-	X
	110	(BC1.37) 68						
		(BC1.37)	-		-	-	-	-
	118	70 (M36) 73	-	•	-	-	-	-
Axle length / shell		(BC1.37)	-	-	-	-	-	-
width (mm)	VI.440	68 (BC1.37)	-	-	х	-	-	-
	XL118	70 (M36)	-	-	X	-	-	-
		73mm 68		-	X	-	-	-
		(BC1.37)	Х	X*	-	-	-	-
	121	70 (M36) 73	-	•	-	-	-	-
		(BC1.37) 68		·	-	-	-	-
	126	(BC1.37)	X*	-	-	-	-	-
		73 (BC1.37)		-	-	-	-	-
		68 (BC1.37)		-	X	X*	-	Х*
	D-NL 122	70 (M36)	· ·	-	X	-	-	-
		73 (BC1.37)		-	X	-	-	-
		68 (BC1.37)	-	-	Х	X*	-	-
	D-EL 127	70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
		68 (BC1.37)	-	-	-	Х	Х	X (t=1.8)
	LL123	70 (M36)	-	-	-	X	-	-
		73 (BC1.37)	-	-	-	-	Х	-
	123SP	68	-	-	-	X	-	-
	130	(BC1.37) 68	-	-	-	X	-	_
		(BC1.37) erial	Steel	Steel	Steel	Steel	Steel	Steel
Spindle		ish	Bonderlube	Bonderlube	Painted (Black)	Bondelube	Bondelube	Bondelube
Loft hand ad		erial	Resin	Resin	Aluminum	Resin	Resin	Resin
Left hand adapter		ish	-	-	-	-	-	-
Right hand adapter /		erial	Steel	Steel	Steel	Steel	Steel	Steel
Shell	Į Fin	ish	Phosphate coated	Phosphate coated	Nickel Chrome	Phosphate coated	Phosphate coated	Phosphate coated
No	ote		* w/ 0.7mm spacer	* w/ 1.8mm spacer version also available for FC-M521		* w/ Fixing Bolts	* w/ Fixing Bolts	* w/ Fixing Bolts

МТВ

Bottom Bracket

Series			SHIMANO	SHIMANO	
	el no.		BB-UN100	BB-UN100-K	
		dard	Х	-	
Structure	E-t	ype	-	-	
		in case	-	X	
		spindle	-	-	
Spindle		LINK	-	-	
	Squar	e type	X	X	
		68 (BC1.37)	-	-	
	107	70 (M36)	-	_	
	'*'	73			
		(BC1.37)	-	-	
		68	-	_	
	MM110	(BC1.37) 70 (M36)	-	-	
	I WINTIO	73	-	-	
		(BC1.37)	-	-	
		68	_	_	
		(BC1.37)			
	LL113	70 (M36)	-	-	
		73 (BC1.37)	-	-	
		68			
		(BC1.37)	-	-	
	113	70 (M36)	-	-	
		73	-	_	
		(BC1.37)			
	D-H	68 (BC1.37)	-	-	
	5-11	70 (M36)	-	-	
	VI 447	68			
	YL117	(BC1.37)	-	-	
	118	68	-	_ `	
		(BC1.37)			
		68 (BC1.37)	-	<u>-</u>	
	118	70 (M36)	-		
		73	_		
Axle length / shell		(BC1.37)	-	-	
width (mm)		68 (DC4.37)	-		
	XL118	(BC1.37) 70 (M36)			
		70 (M30) 73mm	-	-	
		68			
		(BC1.37)	-	-	
	121	70 (M36)	-	-	
		73			
		(BC1.37)			
		68 (BC1.37)	-	-	
	126	73			
		(BC1.37)		-	
		68	X*	X*	
	D-NL 122	(BC1.37)			
	D-NL 122	70 (M36) 73		-	
		(BC1.37)		-	
		68		_	
		(BC1.37)	*		
	D-EL 127	70 (M36)	-	-	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	73 (RC1 37)	-	-	
		(BC1.37) 68			
		(BC1.37)	Х	X**	
	LL123	70 (M36)	-	-	
		73	Х	-	
		(BC1.37)	^		
	123SP	68 (BC1.37)	-	-	
		68			
	130	(BC1.37)	-	-	
Spindle	Mat	erial	Steel	Steel	
Spinule	Finish		Lube	Lube	
Left hand adapter		erial	Resin	Resin	
		ish	- D:- / C+I	- D:-/C+I	
Right hand adapter / Shell		erial ish	Resin / Steel	Resin / Steel	
Sileii	<u>ı Fin</u>	1311	-	* w/ crank arm fixing	
<u></u>			* w/ crank arm fixing	bolts spec available	
Note			bolts spec available	7.2.2.0.00.0	
Note				** w/ 0.7 mm spacer	



BL

51

FD

BR BR

BR

FC

SIVICD

SMCR BB

cc

N/IE

НВ

НВ

Seri	ies	XTR	DEORE XT	DEORE XT	DEORE XT	SLX	SLX
Mode	l no.	CS-M9001	CS-M8000	CS-M8000	CS-M8000 (11-46T)	CS-M7000-11	CS-M7000-11
Тур	oe .	HG	HG	HG	HG	HG	HG
Spe	eds	11-speed	11-speed	11-speed	11-speed	11-speed	11-speed
Compatib	ole chain	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11
Combinat	on name	11-40T	11-40T	11-42T	11-46T	11-40T	11-42T
Group	name	bs	bs	bt	bu	bs	bt
	11th	40**	40**	42**	46**	40**	42**
	10th	35*	35	37	37**	35	37
	9th	31*	31	32	32	31	32
	8th	27*	27	28	28	27	28
Combination	7th	24*	24	24	24	24	24
* Titanium gear	6th	21*	21	21	21	21	21
** Aluminum gear	5th	19*	19	19	19	19	19
	4th	17	17	17	17	17	17
[3rd	15	15	15	15	15	15
	2nd	13	13	13	13	13	13
	1st	11	11	11	11	11	11
Carbon Spider arm	QTY (pcs)	2	-	-		-	-
Carbon Spider arm	Finish	-	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	2	2	2	2	1	1
Aluminum Spider arm	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Steel Spider arm	QTY (pcs)	-	-	-	-		-
Steel Spider arm	Finish	-	-		·	-	-
Titanium gear	Finish	Shot	-	-		-	-
Steel gear	Finish	Shot-Ni	Shot-Ni	Shot-Ni	Shot-Ni	Shot-Ni	Shot-Ni
Lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
LOCK TING	Finish	Anodized	Anodized	Anodized	Anodized	Plated	Plated
Average	weight	330 g	411 g	434 g	437 g	450 g	476 g
No	te				NEW gear combination		

Seri	ies	SLX	XTR	XTR	DEORE XT	DEORE XT	DEORE XT
Mode	l no.	CS-M7000-1 <mark>1</mark>	CS-M980	CS-M980	CS-M771-10	CS-M771-10	CS-M771-10
Тур	ре	HG	HG	HG	HG	HG	HG
Spe	eds	11-speed	10-speed	10-speed	10-speed	10-speed	10-speed
Compatib	ole chain	HG-X11	HG-X 10-speed				
Combinat	ion name	11-46T	11-34T	11-36T	11-32T	11-34T	11-36T
Group	name	bu	bJ	bk	bL	bJ	bk
	11th	46**		-	-	-	-
	10th	37**	34*	36*	32	34	36
	9th	32	30*	32*	28	30	32
	8th	28	26*	28*	25	26	28
Combination	7th	24	23*	24*	22	23	24
* Titanium gear	6th	21	21*	21*	20	21	21
** Aluminum gear	5th	19	19	19	18	19	19
	4th	17	17	17	16	17	17
	3rd	15	15	15	14	15	15
	2nd	13	13	13	12	13	13
	1st	11	11	11	11	11	11
Carbon Spider arm	QTY (pcs)	-	-	-	-	-	-
Carbon Spider arm	Finish	-	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	1	3	3	2	2	2
Aluminum Spider arm	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Steel Spider arm	QTY (pcs)	-	-	-	-	-	-
Steer Spider dilli	Finish	-	-	-	-	-	-
Titanium gear	Finish	-	Shot	Shot	Shot	Shot	Shot
Steel gear	Finish	Shot-Ni	Shot-Ni	Shot-Ni	Shot-Cr	Shot-Cr	Shot-Cr
Lock ring	Material	Steel	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Lock ining	Finish	Plated	Anodized	Anodized	Anodized	Anodized	Anodized
Average	weight	482 g	255 g	272 g	294 g	323 g	343 g
No	te						

Ser	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	CS-HG81-10	CS-HG81-10	CS-HG81-10	CS-HG50-10	CS-HG500-10	CS-HG400-9
Ту	pe	HG	HG	HG	HG	HG	HG
Spe	eds	10-speed	10-speed	10-speed	10-speed	10-speed	9-speed
Compatil	ble chain	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X	HG 9-speed
Combinat	ion name	11-32T	11-34T	11-36T	11-36T	11-42T	11-28T
Group	name	bL	βJ	bk	bk		bg
	11th	-	=	-	-	-	-
	10th	32	34	36	36	42**	-
	9th	28	30	32	32	37	28
	8th	25	26	28	28	32	24
Combination	7th	22	23	24	24	28	21
* Titanium gear	6th	20	21	21	21	24	18
** Aluminum gear	5th	18	19	19	19	21	16
	4th	16	17	17	17	18	14
	3rd	14	15	15	15	15	13
	2nd	12	13	13	13	13	12
	1st	11	11	11	11	11	11
Carbon Spider arm	QTY (pcs)	-	-	-		-	-
Carbon Spider arm	Finish	-	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	1	1	1	-		-
Aluminum Spider arm	Finish	Anodized	Anodized	Anodized	-	-	-
Steel Spider arm	QTY (pcs)	-	-	-	1	1	-
Steel Spider ailii	Finish	-	-		Ni plated	Plated	-
Titanium gear	Finish	Shot	Shot	Shot		-	-
Steel gear	Finish	Shot-Cr/ Shot-Ni	Shot-Cr/ Shot-Ni	Shot-Cr/ Shot-Ni	Ni plated	Shot-Ni	Ni-Ni plated
Lock ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
Lock filly	Finish	Cr plated	Cr plated	Cr plated	Cr plated	Plated	Ni-Ni plated
Average	weight	317 g	351 g	369 g	-	-	-
No	te	Use CN-6701 with Road double FC					

Seri	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	l no.	CS-HG400-9	CS-HG400-9	CS-HG400-9	CS-HG400-9	CS-HG300-9	CS-HG300-9
Тур	ре	HG	HG	HG	HG	HG	HG
Spe	eds	9-speed	9-speed	9-speed	9-speed	9-speed	9-speed
Compatib	ole chain	HG 9-speed	HG 9-speed				
Combinat	ion name	11-32T	11-34T	12-36T	11-36T	11-28T	11-32T
Group	name	ar	au	bh	cb	bg	ar
	11th		-	-	-	-	-
	10th		-	-	-	-	-
	9th	32	34	36	36	28	32
	8th	28	30	32	30	24	28
Combination	7th	24	26	28	26	21	24
* Titanium gear	6th	21	23	24	23	18	21
** Aluminum gear	5th	18	20	21	20	16	18
	4th	16	17	18	17	14	16
[3rd	14	15	16	15	13	14
	2 <mark>nd</mark>	12	13	14	13	12	12
	1st	11	11	12	11	11	11
Carbon Spider arm	QTY (pcs)	-	-	-	-	-	-
Carbon Spider ann	Finish	-	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	-	-	-	-	-	-
Aluminum Spider arm	Finish	-	-	-	-	-	-
Steel Spider arm	QTY (pcs)	-	-	-	-	-	-
Steel Spider arm	Finish	-	-	-	-	-	-
Titanium gear	Finish	-	-	-	-	-	-
Steel gear	Finish	Ni-Ni plated	Ni-Ni plated	Ni-Ni plated	Ni-Ni plated	Ni plated (Top gear: Zinc phosphate)	Ni plated (Top gear: Zinc phosphate)
Lock ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
LOCK TING	Finish	Ni-Ni plated	Ni-Ni plated	Ni-Ni plated	Ni-Ni plated	Zinc phosphate	Zinc phosphate
Average	weight	-	-	-	-	-	-
No	te						

73

SMS

BL

CT

ST

ND

BR

RR

DD

BK

SMCD

SMCR

BB

MF

НВ

НВ

111

FH

Ser	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	CS-HG300-9	CS-HG300-9	CS-HG201-9	CS-HG201-9	CS-HG201-9	CS-HG200-9
Ту	pe	HG	HG	HG	HG	HG	HG
Spe	eds	9-speed	9-speed	9-speed	9-speed	9-speed	9-speed
Compatil	ole chain	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Combinat	ion name	11-34T	12-36T	11-32T	11-34T	11-36T	11-32T
Group	name	au	bh	bo	bn	bw	bo
	11th	-	-	-	-	-	-
	10th	-	-	-	-	-	-
	9th	34	36	32	34	36	32
	8th	30	32	28	30	30	28
Combination	7th	26	28	24	26	26	24
* Titanium gear	6th	23	24	21	23	23	21
** Aluminum gear	5th	20	21	19	20	20	19
	4th	17	18	17	17	17	17
	3rd	15	16	15	15	15	15
	2nd	13	14	13	13	13	13
	1st	11	12	11	11	11	11
Carbon Spider arm	QTY (pcs)	-	-	-		-	-
Carbon Spider arm	Finish	-	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	-	-	-	-		-
Aluminum Spider arm	Finish	-	-	-	-	-	-
Steel Spider arm	QTY (pcs)	-	-	-	-		-
Steel Spider arm	Finish	-	-		·	-	-
Titanium gear	Finish	-	-	-		-	-
Steel gear	Finish	Ni plated (Top gear: Zinc phosphate)	Ni plated (Top gear: Zinc phosphate)	Ni-Ni plated (Top gear: Zinc phosphate)	Ni-Ni plated (Top gear: Zinc phosphate)	Ni-Ni plated (Top gear: Zinc phosphate)	Zinc Phosphate
Lask vina	Material	Steel	Steel	Steel	Steel	Steel	Steel
Lock ring	Finish	Zinc phosphate	Zinc phosphate	Zinc Phosphate	Zinc Phosphate	Zinc Phosphate	Zinc Phosphate
Average	weight	-			-	-	-
No	te						

Ser	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	CS-HG200-9	CS-HG200-9	CS-HG51-8	CS-HG51-8	CS-HG51-8	CS-HG41-8
Туј	pe	HG	HG	HG	HG	HG	HG
Spe	eds	9-speed	9-speed	8-speed	8-speed	8-speed	8-speed
Compatil	ole chain	HG 9-speed	HG 9-speed	IG/HG	IG/HG	IG/HG	IG/HG
Combinat	ion name	11-34T	11-36T	11-28T	11-30T	11-32T	11-30T
Group	name	bn	bw	bf	an	aw	an
	11th		-	-	-	-	-
	10th	,	-	-	-	-	-
	9th	34	36	-	-	-	-
	8th	30	30	28	30	32	30
Combination	7th	26	26	24	26	28	26
* Titanium gear	6th	23	23	21	23	24	23
** Aluminum gear	5th	20	20	19	20	21	20
	4th	17	17	17	17	18	17
	3rd	15	15	15	15	15	15
	2nd	13	13	13	13	13	13
	1st	11	11	11	11	11	11
Carbon Spider arm	QTY (pcs)	-	-	-	-	-	-
Carbon Spider ann	Finish	-	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	-	-	-	-	-	-
Aluminum Spider ann	Finish	-	-	-	-	-	-
Steel Spider arm	QTY (pcs)	-	-	-	-	-	-
Steel Spider ailli	Finish	-	-	-	-	-	-
Titanium gear	Finish	-	-	-	-	-	-
Steel gear	Finish	Zinc Phosphate	Zinc Phosphate	Chrome plated	Chrome plated	Chrome plated	Ni plated
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Lock ring Finish		Zinc Phosphate	Zinc Phosphate	Chrome plated	Chrome plated	Chrome plated	Manganese phosphate
Average	weight	-	-	-	-	-	-
No	te						

Seri	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	CS-HG41-8	CS-HG41-8	CS-HG31-8	CS-HG31-8	CS-HG31-8	CS-HG200-8
Тур	pe	HG	HG	HG	HG	HG	HG
Spe	eds	8-speed	8-speed	8-speed	8-speed	8-speed	8-speed
Compatib	ole chain	IG/HG	IG/HG	IG/HG	IG/HG	IG/HG	HG 8-speed
Combinat	ion name	11-32T	11-34T	11-30T	11-32T	11-34T	12-32T
Group	name	aw	ao	an	aw	ao	br
	11th	-	-	-	-	-	-
	10th	-	-	-	-	-	-
	9th	-	-	-	-	-	-
	8th	32	34	30	32	34	32
Combination	7th	28	26	26	28	26	28
* Titanium gear	6th	24	23	23	24	23	24
** Aluminum gear	5th	21	20	20	21	20	21
	4th	18	17	17	18	17	18
	3rd	15	15	15	15	15	16
	2nd	13	13	13	13	13	14
	1st	11	11	11	11	11	12
Carbon Spider arm	QTY (pcs)	-	-	-		-	-
Carbon spider ann	Finish	-	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	-	-	-	-		-
Aluminum spider arm	Finish	-	-	-	-	-	-
Steel Spider arm	QTY (pcs)	-	-	- 4	-		-
Steel Spider arm	Finish	-	-			-	-
Titanium gear	Finish	-	-	-		-	-
Steel gear	Finish	Ni plated	Ni plated	Zinc Phosphate	Zinc Phosphate	Zinc Phosphate	Manganese phosphate
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Lock ring	Finish	Manganese phosphate	Manganese phosphate	Manganese phosphate	Manganese phosphate	Manganese phosphate	Manganese phosphate
Average	weight	-	-	_	-	-	-
No	te						

Ser	ies	SHIMANO	SHIMANO	SHIMANO	DXR
Mode	el no.	CS-HG41-7	CS-HG200-7	CS-HG200-7	CS-MX66
Ту	pe	HG	HG	HG	Single sprocket for FH-MX70
Spe	eds	7-speed	7-speed	7-speed	Single
Compatil	ble chain	IG/HG	IG/HG	IG/HG	1/2" x 3/32"
Combinat	ion name	11-28T	12-28T	12-32T	-
Group name		ac	bm	bp	-
	11th		-	-	-
	10th		-	-	-
	9th	-	-	-	-
Combination * Titanium gear ** Aluminum gear	8th		-	-	-
	7th	28	28	32	-
	6th	24	24	26	-
	5th	21	21	21	-
	4th	18	18	18	-
	3rd	15	16	16	-
	2nd	13	14	14	-
	1st	11	12	12	-
Carbon Spider arm	QTY (pcs)	-	-	-	-
Carbon Spider arm	Finish	-	-	-	-
Al Cuide	QTY (pcs)	-	-	-	-
Aluminum Spider arm	Finish	-	-	-	-
Steel Spider arm	QTY (pcs)	-	-	-	-
Steer Spider arm	Finish	-	-	-	-
Titanium gear	Finish	-	-	-	-
Steel gear	Finish	Ni plated	Manganese phosphate	Manganese phosphate	Shot-Cr / Shot-Ni
	Material	Steel	Steel	Steel	Steel
Lock ring	Finish	Manganese phosphate	Manganese phosphate	Manganese phosphate	Chrome plated
Average	weight	-	-	-	-
No	te				For BMX racing

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Multiple Freewheel

Sei	ries	TOURNEY	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	MF-HG37	MF-TZ500-7-CP	MF-TZ500-7	MF-TZ500-7-CP	MF-TZ500-7	MF-TZ500-6-CP
Ту	pe	HG	HG/UG	HG/UG	HG/UG	HG/UG	HG/UG
Spe	eds	7-speed	7-speed	7-speed	7-speed	7-speed	6-speed
	7th	28	34	34	28	28	-
	6th	24	24	24	24	24	28
	5th	21	22	22	22	22	24
Combination	4th	19	20	20	20	20	21
	3rd	17	18	18	18	18	18
	2nd	15	16	16	16	16	16
	1st	13	14	14	14	14	14
Gro	oup	bz	-	-	-	-	-
Spider a	ırm (Pcs)	-	-	-	-	-	-
Aluminun	ı lock ring	-	-	-	-	_	-
Finish		Ni plated & Black	Brown & Black	Brown & Black	Brown & Black	Brown & Black	Brown & Black
Compati	ble chain	HG/UG	HG/UG	HG/UG	HG/UG	HG/UG	HG/UG
No	ote		With Spoke protector		With Spoke protector		With Spoke protector

Sei	ries	SHIMANO
Mode	el no.	MF-TZ500-6
Ту	pe	HG/UG
Spe	eds	6-speed
	7th	-
	6th	28
	5th	24
Combination	4th	21
	3rd	18
	2nd	16
	1st	14
Gro	oup	-
Spider a	ırm (Pcs)	
Aluminun	n lock ring	-
Fin	Brown & Black	
Compati	ble chain	HG/UG
No	ote	

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Front Hub (Disc Brake)

Ser	Series Model no.		XTR		XTR	SAINT	DEORE XT	DEORE XT	DEORE XT
Mode	el no.		HB-M9010		НВ-М9010-В	HB-M820	HB-M8000	HB-M8010	HB-M8010-B
Color 1			Series color		Series color	Series color	Series color	Series color	Series color
Color			-		-	-	-	-	-
Brake	Туре		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	100	100	110	
28H		Х		х	-	-	-	-	
Spoke hole			Х		х	Х	Х	Х	Х
	36H		-		-	х	-	х	-
External serration with		th	Х		х	Х	-	Х	-
rotor lock ring without		out	-		-	-	-	-	-
CENTER LOCK mo	unt cover o	ption	-		-	-	-	-	-
	Fixing n	nethod	15mm E-THRI	J	15mm E-THRU	20mm Thru	QR	15mm E-THRU	15mm E-THRU
	QR	129	-		-	-	<u></u>	-	-
Axle	skewer length (mm)	133	-		-	-	-	-	_
Axie	Thru Axle	100 x 15	Х		-	-	-	Х	-
	Length x Inner	110 x 15	-		х	-		-	Х
	Diameter (mm)	110 x 20	-		-	X		-	-
Flange dist	ance (mm)		60.2		70.2	61.6	60.4	60.2	70.2
Offset	(mm)		5.4		5.4	5.6	5.8	5.3	5.4
P.C.D. Left /	P.C.D. Left / Right (mm)		44 / 44		44/44	52	44/41	44/44	44/44
Flange diar	neter (mm)		52.8		52.8	59.6	52.8/51.4	52.8	52.8
Se	al		Labyrinth & Con	tact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Internal gre	ease sleeve		Х		Х	Х	Х	Х	X
	Stainle	ss ball	Х	4	Х	х	-	-	-
Bearing	Cu	ıp	Griding		Grinding	CBN	-	-	Grinding
	Co	ne	CBN		CBN	CBN	CBN	CBN	CBN
Hub shell	Mate	erial	Aluminum		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Trub Street	Fin	ish	Anodized		Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Mate	erial	Aluminum		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
7.50	Fin	ish	Anodized		Anodized	Anodized	Anodized	Anodized	Anodized
	Mate	erial	Y ->		-	-	Aluminum	-	-
QR lever	Fin	ish	-		-	-	Anodized	-	-
	Col	lor	-		-	-	Black	-	-
QR housing	Mate	erial			-	-	Aluminum	-	-
4ousing	Fin	ish			-	-	Anodized	-	-
QR nut	Mate	erial	-		-	-	Resin & Steel	-	-
4	Fin	ish	-		-	-	-	-	-
Disc brake rotor lock	Mate	erial	Aluminum		Aluminum	Aluminum	-	Aluminum	Aluminum
ring	Fin	ish	Anodized		Anodized	Anodized	-	Anodized	Anodized
Average	weight		136 g		155 g	216 g	164 g	148 g	158 g
No	te					Axle is supplied with front fork		Axle is supplied with front fork	

Front Hub (Disc Brake)

Ser	ies		DEORE XT	DXR	SLX	SLX	SLX	ZEE
Model no.			HB-M756	HB-MX71	HB-M7000	HB-M7010	НВ-М7010-В	HB-M640
	Color 1		Black	Series color	Series color	Series color	Series color	Series color
Color			Silver	-	-	-	-	-
Brake	Туре		6-bolt disc brake	Rim	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D.	O.L.D. (mm)		100	100	100	100	110	110
	28H		-	-	-	-	-	-
Spoke hole	nole 32H		Х	Х	Х	Х	Х	Х
	36H		Х	х	-	-	-	Х
External serration	ternal serration with		-	-	-	х	х	Х
rotor lock ring	terrial serration		-	-	-	-	-	-
CENTER LOCK mo	unt cover o	ption	-	-	-	-	-	-
	Fixing r	nethod	QR	Nut	QR	15mm E-THRU	15mm E-THRU	20mm Thru
ĺ	QR	129	-	-	-	<u></u>	-	-
Axle [skewer length (mm)	133	х	-	х	-	-	-
Axie	Thru Axle	100 x 15	-	-	-	X	-	-
	Length x Inner	110 x 15	-	-	-	-	X	-
	Diameter (mm)	110 x 20	-	-	-		-	Х
Flange dist	ance (mm)		59.4	74	60.2	60.2	70.2	61.6
Offset	Offset (mm)		5.5	0	5.5	5.4	5.4	5.6
P.C.D. Left /	P.C.D. Left / Right (mm)		61	40	44/44	44/44	44/44	52
Flange dian	Flange diameter (mm)		70.6	50.4	52.8/52.8	52.8	52.8	59.6
Se	al		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Internal gre	ease sleeve		-	X	Х	Х	Х	X
ļ	Stainle	ss ball	-	Х	-	-	-	-
Bearing	Cu	ıp	-	Griding	-	-	-	-
	Co	ne	CBN	CBN	CBN	CBN	CBN	CBN
Hub shell	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Mate	erial	Steel	Steel	Steel	Aluminum	Aluminum	Aluminum
	Fin	ish		-	-	Anodized	Anodized	Anodized
	Mate		Aluminum	-	Aluminum	-	-	-
QR lever	Fin	ish	Anodized	-	Anodized	-	-	-
	Col	lor	Black / Silver (Same as product color)	-	Black	-	-	-
Material		Aluminum	-	Aluminum	-	-	-	
QR housing	Fin	ish	Anodized	-	Anodized	-	-	-
	Mate	erial	Resin & Steel	-	Resin & Steel	-	-	-
QR nut	Fin	ish	-	-	-	-	-	-
Disc brake rotor lock	Finish k Material		-	-	-	Aluminum	Aluminum	Aluminum
ring	Fin	ish	-	-	-	Anodized	Anodized	Anodized
Average	weight		239 g	263 g	189 g	148 g	158 g	228 g
No	te		Spoke hole 24H spec available	For BMX racing				Axle is supplied with front fork

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Front Hub (Disc Brake)

Series			DEORE	DEORE	DEORE	SHIMANO	SHIMANO	SHIMANO
Model no.			HB-M6000	HB-M6010	НВ-М6010-В	HB-M525A	HB-M475	HB-M4050
	Color 2		Series Black	Series Black	Series Black	Black	Black	Black
Color	Color		Series Silver*	-	-	Silver	Silver	Silver
Brake	Туре		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake	6-bolt disc brake	CENTER LOCK disc brake
O.L.D. (mm)		100	100	110	100	100	100	
28H Spoke hole 32H		вн	-	-	-	-	-	-
Spoke hole	Spoke hole 32H 36H		Х	Х	Х	Х	Х	Х
	36H nal serration with		Х	Х	-	Х	х	Х
External serration	al serration with		-	Х	Х	-	-	-
rotor lock ring	rotor lock ring		-	-	-	-	-	-
- Without		ption	-	-	-	-	-	-
	Fixing r	nethod	QR	15mm E-THRU	15mm E-THRU	QR	QR	QR
[QR	129	-	-	-	-	-	-
Axle	skewer length (mm)	133	Х	-	-	Х	х	х
I	Thru Axle	100 x 15	-	Х	-	-	-	-
	Length x Inner	110 x 15	-	-	х	-		-
	Diameter (mm)	110 x 20	-	-			-	-
Flange distance (mm)			60.2	60.2	70.2	59.4	59.4	60.2
Offset (mm)		5.3	5.3	5.4	5.5	5.5	5.6	
P.C.D. Left / Right (mm)		44	44	44/44	61	61	44/44	
Flange diam	neter (mm)		52.8	52.8	52.8	70.6	70.6	52.8
Sea	Seal		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact	Labyrinth & Contact
Internal gre	Internal grease sleeve		-	Х	Х	-	-	-
_	Stainle	ss ball	-	-		-	-	-
Bearing	Cu	ıp	-	-		-	-	-
	Со	ne	CBN	CBN	CBN	CBN	-	-
Hub shell	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Mate		Steel	Aluminum	Aluminum	Steel	Steel	Steel
	Fin	_		Anodized	Anodized	-	-	-
	Mate		Aluminum	-	-	Aluminum	Steel	Aluminum
QR lever	Fin		Anodized	-	-	Anodized	Plated	Barrel
Color		Black	-	-	Black	Black	Black	
QR housing Material		Aluminum	-	-	Aluminum	Steel	Steel	
	$\overline{}$	ish	Anodized	-	-	Anodized	Plated	Plated
QR nut	_	erial 	Resin & Steel	-	-	Resin & Steel	Resin & Steel	Resin & Steel
		ish	-	-	-	-	-	-
Disc brake rotor lock ring		erial	-	Steel	Steel	-	-	-
	Fin	ish	-	-	-	-	-	-
Average			-	-	-	-	-	-
Not	te		* for Trekking	-	-			

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Front Hub (Disc Brake)

Ser	ies		SHIMANO	SHIMANO	SHIMANO
Mode	Model no.			HB-RM35	HB-TX505
	1		Black	Black	Black
Color	2	2	-	-	-
Brake	Brake Type O.L.D. (mm)		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D.	(mm)		100	100	100
	28	вн	-	х	-
Spoke hole	36H with		х	х	х
	aernal serration with otor lock ring without		х	х	Х
External serration	xternal serration		-	-	-
rotor lock ring	with	out	-	-	-
CENTER LOCK mo	unt cover o	ption	-	-	-
	Fixing method		QR	QR	QR
	QR	129	-	-	-
Axle	skewer length (mm)	133	х	х	Х
ANIC	Thru Axle	100 x 15	-	-	-
	Length x Inner	110 x 15	-	-	-
	Diameter (mm)	110 x 20	-	-	
Flange dist	Flange distance (mm)		60.2	60.2	60.2
Offset	Offset (mm)		5.5	5.5	5.5
P.C.D. Left /	P.C.D. Left / Right (mm)		44 / 44	44/44	44/44
Flange diar	neter (mm)		52.8	52.8	52.8
Se	al		Contact	-	-
Internal gre	ease sleeve		-	-	-
	Stainle	ss ball	-	-	-
Bearing	Cı	ıp	-	-	-
	Со	ne	-	-	-
Hub shell	Mat	erial	Aluminum	Aluminum	Aluminum
	Fin	ish	Anodized	Painted	Painted
Axle	Mat	erial	Steel	Steel	Steel
	Fin	ish		-	-
	Mat	erial	Steel	Steel	Steel
QR lever	Fin	ish	Plated	Plated	Plated
	Color		Black	Black	Black
QR housing	Mat	erial	Steel	Steel	Steel
QR housing Finish		Plated	Plated	Plated	
QR nut Material		Resin & Steel	Resin & Steel	Resin & Steel	
	Fin	$\overline{}$	-	-	-
Disc brake rotor lock	Mat		-	-	-
ring	Fin	ish [*]	-	-	-
Average			-	-	-
No	te				



МТВ

Front Hub (Rim Brake)

Se	ries		SHIMANO	SHIMANO		
Mod	el no.		HB-TX500-QR	HB-TX500-NT		
		ı	Black	Black		
Color	7	2	Silver	Silver		
Brake	Type		Rim brake	Rim brake		
O.L.D	. (mm)		100	100		
	28	 ВН	-	-		
Spoke hole	36H ation with		Х	Х		
	36H with without		Х	Х		
External serration	with g without CK mount cover option		with		-	-
rotor lock ring	di Serration		Х	Х		
CENTER LOCK mo	ount cover option		-	-		
			QR	Nut		
	QR 129			-		
Axle	skewer length (mm)	133	Х	-		
Axie	Thru Axle	100 x 15	-	-		
	Length x Inner	110 x 15	-	-		
	x Inner Diameter (mm) 110 x 20		-	-		
Flange dis	tance (mm)		71.6	71.6		
Offse	t (mm)		0	0		
P.C.D. Left /	Right (mm)		38/38	38/38		
Flange dia	meter (mm)		46	46		
Se	eal		-	-		
Internal gr	ease sleeve		-			
	Stainle	ss ball	-	·		
Bearing	Cı	ıb	-			
	Co	ne	-	-		
	Mat	erial	Aluminum	Aluminum		
Hub shell	Fin	ish	Painted (Black) / Clear	Painted (Black) / Clear		
Axle	Mat	erial	Steel	Steel		
Axie	Fin	ish		-		
	Mat	erial	Steel	-		
QR lever Finish		Plated	-			
	Color		Black	-		
OP housing	Material		Steel	-		
QR housing	Material Finish		Plated	-		
QR nut	Material		Resin & Steel	-		
QN HUL	Fin	ish	-	-		
Rotor lock ring	Mat	erial	-	-		
Notor lock filing	Fin	ish	-	-		
Average	weight		-	-		
No	ote					



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Ser	ies		XTR	XTR	XTR	SAINT	SAINT	SAINT
Series Model no.			FH-M9000	FH-M9010	FH-M9010-B	FH-M820	FH-M825	FH-M828
	1		Series color					
Color	2	2	-	-	-	-	-	-
Brake Type			CENTER LOCK disc brake					
Speeds		8-10 speed MTB 11-speed						
O.L.D.	O.L.D. (mm)		135	142	148	135	150	142
	O.L.D. (mm) 28H		-	-	-	-	-	-
Spoke hole	32	:H	Х	Х	Х	Х	Х	Х
	36	Н	-	-	-	Х	Х	Х
External serration	36H with		Х	Х	Х	-	-	-
rotor lock ring	with		-	-	-	-	-	-
Internal serration disc	wi	th	-	-	-	х	Х	Х
brake rotor lock ring	with	out	-	-	-	<u></u>	-	-
CENTER LOCK mo	unt cover o	ption	-	-	-		-	-
	Fixing r	nethod	QR	12 mm E-THRU	12 mm E-THRU	Thru	Thru	12mm E-THRU
	OB	166	-	-	-		•	-
	QR skewer	168	Х	-			-	-
	length (mm)	170	-	-	-		-	-
Axle	(,	173	Х	-	-	-	-	-
		135 x 10	-	-		Х	-	-
	Thru Axle Length	135 x 12	-	-	-	Х	-	-
	x Inner	142 x 12	-	X		-	-	Х
	x Inner Diameter (mm) 142 x 12		-	-	Х	-	-	-
		150 x 12	-	·	-	-	Х	-
Flange dist	ance (mm)		57.4	57.4	63.4	57.4	72.4	57.4
Offset	(mm)		6.6	6.6	6.6	6.4	6.6	6.4
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
Quick eng	jagement		X (36points/360°)					
Seal	Hu		Labyrinth & Contact					
	FREEHU	B body	Contact	Contact	Contact	Contact	Contact	Contact
Internal gr			Х	Х	X	X	Х	Х
	Stainle	ss ball	X	Х	X	X	X	Х
Bearing		ıb	Grinding	Grinding	Grinding	Grinding	Grinding	Grinding
	Cone		CBN	CBN	CBN	CBN	CBN	CBN
FREEHUB body	Mate		Titanium -	Titanium	Titanium	Steel	Steel	Steel
	Fin			- Aluminum				
Hub shell	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin <mark>ish</mark>		Anodized	Anodized	Anodized	Anodized		
Axle	Material Finish		Aluminum	Aluminum	Aluminum	Steel -	Steel -	Steel -
	Finish		Aluminum	Allouizeu	- Anodized	-	-	-
OR lever	Material QR lever Finish		Anodized	_	-	-	-	-
<u> </u>	Finish Color		Series color	-	-	-	-	-
QR housing	Material		Aluminum	-	-	-	-	-
QN Housing	Fin	ish	Anodized	-	-	-	-	-
OP nut	Mate	erial	Resin & Steel	-	-	-	-	-
QR nut	Fin	ish	-	-	-	-	-	-
Rotor lock ring	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Notor lock filing	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Average *w/o axle, QI		ıg	271 g	268 g	277 g	347 g (ø10) 333 g (ø12)	348 g	336 g
No	te							

Ser	ies		DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX	SLX
	Series Model no.		FH-M8000	FH-M8010	FH-M8010-B	FH-M756	FH-M7000	FH-M7010
	Color 1		Series color	Series color	Series color	Black	Series color	Series color
Color	Color 1 2		-	-	-	Silver	-	-
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc	6-bolt Disc brake	CENTER LOCK disc brake	CENTER LOCK disc	
Speeds O.L.D. (mm)		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 MTB 11-speed	
O.L.D. (mm)			135	142	148	135	135	142
	28H		-	-	-	-	-	-
Spoke hole			Х	Х	X	X	X	х
	36H		-	-	-	Х	-	-
External serration	ernal serration with		-	-	-	-	-	-
rotor lock ring	otor lock ring without		-	-	-	-	-	-
Internal serration disc	al serration disc with		-	-	-	-		-
	e rotor lock ring without		-	-	-	-	-	-
CENTER LOCK mo			-			-	-	-
	Fixing r		QR	12 mm E-THRU	12 mm E-THRU	QR	QR	12 mm E-THRU
	QR	166	-	-	-	-	-	-
	skewer length	168	X	-	-	Х	X	-
	(mm)	170	- X	-	-	V	- X	-
Axle		173 135 x 10	^	-		X	_	-
	Thru Axle	135 x 10	-	-			-	-
	Length x Inner	142 x 12	_	X			_	X
	Diameter	148 x 12	-		х	_	-	-
	(mm)	150 x 12	-			-	-	-
Flange dist	ance (mm)		57.4	57.4	63.4	57.1	57.4	56.3
Offset			6.6	6.4	6.4	6.8	6.6	6.6
P.C.D. Left/	Right (mm)		44/45	44/45	44/45	61	44/45	44/45
Flange diameter	Left/Right (mm)	52.8/53.8	52.8/53.8	52.8/53.8	70.6	52.8/53.8	64/70
Quick eng	jagement		X (more than 36times/ 360degree)	X (more than 36times/ 360degree)	X (36times/ 360degree)	-	X (32times/360degree)	X (36times/ 360degree)
Seal	Н	ıb	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contac
Jean	FREEHU	IB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal gre	ease sleeve		Х	X	-	X	Х	Х
	Stainle	ss ball	-	-	-	-	-	-
Bearing	Cı	1b	•	-	Grinding	-	-	-
		ne	CBN	CBN	CBN	CBN	CBN	CBN
FREEHUB body	Mat		Steel	Steel	Steel	Steel	Steel	Steel
	Fin		-	-	-	-	-	-
Hub shell	Mate		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Fin	er <mark>ial</mark> ish	Aluminum Anodized	Aluminum Anodized	Aluminum	Steel -	Steel -	Steel -
	Mate		Alluminum	Anodized -	- Anodized	Aluminum	Aluminum	-
QR lever			Anodized	_	-	Anodized	Anodized	-
	QR lever Finish Color		Series color	-	-	Series color	Black	-
	Mate		Aluminum	-	-	Aluminum	Aluminum	-
QR housing	Fin		Anodized	-	-	Anodized	Anodized	-
0.7	Mat	erial	Resin & Steel	-	-	Resin & Steel	Resin & Steel	-
QR nut	Fin	ish	-	-	-	-	-	-
Batas I d d	Mat	erial	-	-	-	-	-	-
Rotor lock ring	Fin	ish	-	-	-	-	-	-
Average *w/o axle, QF		ıg	328 g	359 g	367 g	364 g	384 g	357 g
No	te					Spoke hole 24H spec available		

BL

SL

BL

ST

RD

FD BR

BR

BR

FC

SMCR

BB BB

CS

MF

НВ

ru.

WH

CI-DECK

Model No. PHATFOR B PHAMBO PHAM	Seri	ies		SLX	ZEE	ZEE	ZEE	DEORE	DEORE
Calor Park Type	Model no.			FH-M7010-B	FH-M640	FH-M645	FH-M648	FH-M6000	FH-M6010
Brake Type		or 1		Series color	Series color	Series color	Series color	Series Black	Series Black
Brace type	Color	Color		-	-	-	-	Series Silver*	-
MIT 11 speed MIT									
Spice hole 231	·								
Spoke hole	O.L.D. (mm)		-	-	-	-	-		
Set		<u> </u>							
With	Spoke hole			Х	Х	Х	Х	Х	Х
The control of kinds Without		32H		-	Х	Х	Х	Х	-
Internal servation discription Minimum Maminum	External serration	241		-	-	-	-	-	-
Part		with	out	-	-	-	-	-	-
CENTER LOCK	Internal serration disc	wi	th	-	-	-	-		-
Fixing method 12 mm ETHRU Thru Thru Thru QR 12 mm ETHRU		nai seriation disc		-	-	-	1	-	-
Axie Axie	CENTER LOCK mo	unt cover o	ption	-	-	-	-	-	-
Axion		Fixing r	nethod	12 mm E-THRU	Thru	Thru	Thru	QR	12 mm E-THRU
Aule	[OB	166	-	-		-		-
Axie Titol Ayie		skewer	168	-	-	-		X	-
Action A			170	-	-	-		-	-
Throward 135 x 10	Axle			-	-	-		X	-
Length		Thuu Aula		-			-	-	-
Diameter (mm)		Length		-	Х			-	
Tida x 12					-	-	Х	-	Х
Flange distance (mm)		Diameter (mm) 148 x 12		Х		·	-	-	-
Offset (mm)			150 x 12		-		-		
P.C.D. Left/Right (mm)									
Flange diameter Left/Right (mm)	-				`				
Quick engagement 350 degree X (36 points/360") X (36 points/360"	-		mm)						
National Seal	_		,	X (36times/					X (36times/
FREEHUB body		Hu	ıb		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	
Stainless ball	Seal	FREEHU	B body	Contact	Contact	Contact	Contact	Contact	Contact
Stainless ball	Internal gre	ase sleeve		Х	X	Х	Х	Х	Х
Cone			ss ball		х	Х	Х	-	-
Material Steel S	Bearing	Cı	ıþ		-	-	-	-	-
FREEHUB body Finish		Co	ne	CBN	CBN	CBN	CBN	CBN	CBN
Hub shell	EDEEMING Parks	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
Hub shell	FREEHUB DOGY	Fin	ish		-	-	-	-	-
Material Steel S	Huh shell	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Axle Finish	Huw sileli	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Finish - - - - - - - - -	Axle .	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
QR lever Finish - - - - Anodized - Color - - - - Black - QR housing Material - - - - Aluminum - Pinish - - - - - Anodized - QR nut Material - - - - - - - Rotor lock ring Material - - - - - - - -	,			-	-	-	-	-	-
Color Black					-				
Material - - - - Aluminum - Finish - - - - - Anodized - QR nut Material - - - - - - - Finish - - - - - - - - - Rotor lock ring Material -	QR lever				-				
QR housing Finish - - - - Anodized - QR nut Material - - - - - - - - Rotor lock ring Material -<		+			-				
QR nut Material - - - - Resin & Steel - Finish - <td< td=""><td>QR housing</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	QR housing								
QR nut Finish -									
Material - - - - - - - - -	QR nut								
Rotor lock ring Finish	 								
	Rotor lock ring								-
Average weight* 360 a 375 g (ø10) 362 a 357 a	Average		1211		375 g (ø10)				-
*w/o axle, QR nor lockring 360 g 350 g (ø12) 363 g 357 g			ıg	360 g		363 g	357 g	-	-
Note * for Trekking	No	te						* for Trekking	

Ser	ies		DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
	Series Model no.		FH-M6010-B	FH-M525A	FH-M475	FH-M4050	FH-M3050	FH-RM35
	Color 1		Series Black	Black	Black	Black	Black	Black
Color	Color 1 2		-	Silver	Silver	Silver	-	-
Brake	Туре		CENTER LOCK disc brake	6-bolt Disc brake	6-bolt Disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc
Spe	Speeds O.L.D. (mm)		8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed	8/9 speed	8/9 speed	8/9 speed
O.L.D. (mm)		148	135	135	135	135	135	
			-	-	-	-	-	X*
Spoke hole	ooke hole 32H 36H		Х	Х	х	Х	Х	Х
	36H erration with		Х	Х	х	Х	Х	Х
External serration	on with		-	-	-	-	-	-
rotor lock ring	ng without		-	-	-	-	-	-
nternal serration disc	disc with		-	-	-	-		-
brake rotor lock ring	ai serration disc		-	-	-	<u></u>	-	-
CENTER LOCK mo	unt cover o	ption	-	-	-		-	-
	Fixing I	method	12 mm E-THRU	QR	QR	QR	QR	QR
	QR	166	-	-	Х	-	X	Х
	skewer	168	-	Х		Х		-
	length (mm)	170	-	-	X		Х	Х
Axle		173	-	X	X	X	-	-
	- 1. A 1.	135 x 10	-	-	-	-	-	-
	Thru Axle Length	135 x 12	-	-	-	-	-	-
	x Inner	142 x 12	-	-	-		-	-
	Diameter (mm) 148 x 12		Х	-	-	-	-	-
		150 x 12	-	-	-	-	-	-
Flange dist	ance (mm)		63.4	57.1	57.1	57.4	57.4	57.4
Offset	(mm)		6.4	6.8	6.8	6.6	6.6	6.6
P.C.D. Left/			44/45	61	61	45 / 45	45 / 45	45 / 45
Flange diameter	Left/Right ((mm)	52.8/53.8	70.6	70.6	53.8	53.8	53.8
Quick eng			X (36times/ 360degree)	·	-	-	-	-
Seal	Hı		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact	-
		JB body	Contact	Contact	-	Contact	-	-
Internal gre			X	-	-	X	-	-
B		ess ball		-	-	-	-	-
Bearing		ир	- CDV	-	-	- CDN	-	-
		ne	CBN	CBN	- Stool	CBN	- Ctool	- Ctool
FREEHUB body		erial ish	Steel -	Steel -	Steel -	Steel -	Steel -	Steel -
		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell		ish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
		erial	Steel	Steel	Steel	Steel	Steel	Steel
Axle	Fin		-	-	-	-	-	-
		erial	-	Aluminum	Steel	Aluminum	Steel	Steel
QR lever	Fin		-	Anodized	Plated	Barrel	Plated	Plated
		lor	-	Black	Black	Black	Black	Black
		erial	-	Aluminum	Steel	Steel	Steel	Steel
QR housing	Fin		-	Anodized	Plated	Plated	Plated	Plated
		erial	-	Resin & Steel	Steel + Resin	Steel + Resin	Steel + Resin	Steel + Resin
QR nut		ish	-	-	-	-	-	-
	Mat	erial	-	-	-	-	-	-
Rotor lock ring	Fin	ish	-	-	-	-	-	-
Average	weight*		_	_	_	_	-	-
*w/o axle, QF	R nor lockrin	ng		-		-	-	
No	te							* 166 mm QR spe

SL

BL

ST

ST RD

FD

BR

BR

BR

FC

SMCD SMCR

BB

ВВ

MF

HB HB

FH

WH

CI-DECK

	ries		SHIMANO			
Mode	el no.		FH-TX505-8			
Color	•	1	Black			
	-					
Brake	CENTER LOCK disc brake					
Spe	8/9 speed					
O.L.D.	Speeds O.L.D. (mm) 28H					
	28	ВН	-			
Spoke hole	32	ΣН	Х			
	36	БН	Х			
External serration	wi	ith	-			
rotor lock ring	with	nout	-			
Internal serration disc	wi	ith	-			
brake rotor lock ring	with	nout	-			
CENTER LOCK mo	unt cover o	ption	-			
	Fixing I	method	QR			
	Fixing method 166					
	QR skewer	168	-			
	Х					
Axle	-					
Axie	-					
	-					
	-					
	148 x 12	-				
	-					
Flange dist	57.4					
Offset	Flange distance (mm) Offset (mm)					
P.C.D. Left/	Right (mm)		45 / 45			
Flange diameter	Left/Right ((mm)	53.8			
Quick eng	gagement		-			
Seal	Hı	ub	-			
Seai	FREEHU	JB body	-			
Internal gr	ease sleeve		,			
	Stainle	ess ball				
Bearing	Ö	лb	·			
	Co	ne	·			
FREEHUB body	Mat	erial	Steel			
PREEHOB BOUY	Fin	ish	-			
Hub shell	Mat	erial	Aluminum			
nub sileli	Fin	ish	Painted			
Axle	Mat	erial	Steel			
Axie	Fin	ish	-			
	erial	Steel				
QR lever	Plated					
	Со	lor	Black			
OR housing	Mat	erial	Steel			
QR housing	Fin	ish	Plated			
OPt	Mat	erial	Steel + Resin			
QR nut	Fin	ish	-			
Potos lock!	Mat	erial	-			
Rotor lock ring	Fin	ish	-			
Average			-			
*w/o axle, QI		ng				
No	te					



FREEHUB (Rim Brake)

Series Model no.			DXR	SHIMANO	SHIMANO	SHIMANO	SHIMANO
			FH-MX71	FH-TX500-8-QR	FH-TX500-8-NT		FH-RM30-7-NT
Mode	Color 1 2			,		FH-RM30-7-QR	
Color			Series color	Black	Black	Black	Black
				Silver	Silver	Silver	Silver
			Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
<u> </u>	eds		Single speed	8/9-speed	8/9-speed	7-speed	7-speed
O.L.D.	. (mm)		112	135	135	130/135	135
	28		-	-	-	-	-
Spoke hole	32		Х	Х	Х	-	-
	36		Х	Х	Х	Х	X
External serration	wi	th	-	-	-	-	-
rotor lock ring	with	nout	Х	Х	Х	Х	Х
Internal serration	wi	th	-	-	-	-	-
rotor lock ring	with	nout	Х	X	Х	Х	X
CENTER LOCK mo	ount cover o	ption	-	-	-		-
	Fixing method		Nut	QR	Nut	QR	Nut
	QR 166		-	Х	-	Х	
	skewer	168	-	-	-	-	
	skewer length (mm)		-	X		Х	-
Avlo			-	-	-		-
Axie		135 x 10	-	-	-	-	-
	Thru Axle	135 x 12	-	-	-	-	-
	Length x Inner 142 x 12		-	-		-	-
	x Inner Diameter (mm) 142 x 12		-	_		-	-
	(mm) 148 x 12 150 x 12		-			-	-
Flange dist	tance (mm)		57.4	57.4	57.4	59.2	59.2
Offset	t (mm)		0	6.8	6.8	135:5.5	135:5.5
P.C.D. Left/	Right (mm)		45	45 / 45	45 / 45	45 / 45	45 / 45
	P.C.D. Left/Right (mm) Flange diameter Left/Right (mm)						
Flange diameter	Left/Right ((mm)	53.8	53.8	53.8	53.8	53.8
	Left/Right (mm)	53.8 X (36points/360°)	53.8	53.8	53.8	53.8
Quick en							
	gagement Hu		X (36points/360°)		-	-	-
Quick end	gagement Hu	ub	X (36points/360°) Labyrinth & Contact		-	-	-
Quick end	gagement Hu FREEHU	ub IB body	X (36points/360°) Labyrinth & Contact Contact		-	-	-
Quick end	gagement Hu FREEHU ease sleeve Stainle	ub IB body	X (36points/360°) Labyrinth & Contact Contact X		-	-	-
Quick eng Seal Internal gr	gagement Hu FREEHU ease sleeve Stainle	ub IB body ess ball	X (36points/360°) Labyrinth & Contact Contact X X			- - - -	-
Quick eng Seal Internal gr Bearing	gagement Hu FREEHU ease sleeve Stainle	ub IB body ess ball	X (36points/360°) Labyrinth & Contact Contact X X Grinding	· · · · · · · · · · · · · · · · · · ·	- - - - -	- - - - -	
Quick eng Seal Internal gr	gagement Hu FREEHU ease sleeve Stainle Cu Co Mate	ub UB body ess ball up	X (36points/360°) Labyrinth & Contact Contact X X Grinding CBN		- - - - -	- - - - -	-
Quick eng Seal Internal gr Bearing	gagement Hu FREEHU ease sleeve Stainle Co Mate	ub B body ess ball up ne erial	X (36points/360°) Labyrinth & Contact Contact X X Grinding CBN Steel		- - - - - - Steel	- - - - - - - Steel	
Quick eng Seal Internal gr Bearing	gagement Hu FREEHU ease sleeve Stainle Co Mate	ub B body ess ball up ne erial ish	X (36points/360°) Labyrinth & Contact Contact X X Grinding CBN Steel			- - - - - - - Steel	
Quick engage Seal Internal gr Bearing FREEHUB body Hub shell	gagement Hit FREEHU ease sleeve Stainle Co Mate Fin Mate	ub BB body ess ball up ne erial ish	X (36points/360°) Labyrinth & Contact Contact X X Grinding CBN Steel - Aluminum		Steel - Aluminum Painted (Black) /		
Quick engage Seal Internal gr Bearing FREEHUB body	gagement Ht FREEHU ease sleeve Stainle Co Mat Fin Mat	ub B body ess ball up ne erial ish erial	X (36points/360°) Labyrinth & Contact Contact X X Grinding CBN Steel - Aluminum Anodized				
Quick engage Seal Internal gr Bearing FREEHUB body Hub shell	gagement Hit FREEHU ease sleeve Stainle Co Matr Fin Matr	ub JB body ess ball JP ne erial ish erial ish	X (36points/360°) Labyrinth & Contact Contact X X Grinding CBN Steel - Aluminum Anodized Steel				
Quick engage Seal Internal gr Bearing FREEHUB body Hub shell	gagement Hu FREEHU ease sleeve Stainle Cu Co Mate Fin Mate Fin Mate	ub BB body ess ball up ne erial ish erial ish erial	X (36points/360°) Labyrinth & Contact Contact X X Grinding CBN Steel - Aluminum Anodized Steel -				
Quick end Seal Internal gr Bearing FREEHUB body Hub shell Axle	gagement Ht FREEHU ease sleeve Stainle Co Mat Fin Mat Fin Mat Fin Mat Mat Mat	ub B body Pss ball Up ne erial ish erial ish erial ish	X (36points/360°) Labyrinth & Contact Contact X X Grinding CBN Steel - Aluminum Anodized Steel				
Quick end Seal Internal gr Bearing FREEHUB body Hub shell Axle QR lever	gagement Hit FREEHU ease sleeve Stainle Co Mate Fin Mate Fin Mate Fin Co	ub B body Pss ball Up ne erial ish erial ish erial ish	X (36points/360°) Labyrinth & Contact Contact X X Grinding CBN Steel - Aluminum Anodized Steel				
Quick end Seal Internal gr Bearing FREEHUB body Hub shell Axle	gagement Hit FREEHU ease sleeve Stainle Co Mate Fin Mate Fin Mate Fin Co	ub BB body BS ball Up ne erial ish erial ish erial ish lor erial	X (36points/360°) Labyrinth & Contact Contact X X X Grinding CBN Steel - Aluminum Anodized Steel				
Quick end Seal Internal gr Bearing FREEHUB body Hub shell Axle QR lever QR housing	gagement Ht FREEHU ease sleeve Stainle Co Mat Fin Mat Fin Mate Fin Mat Fin Mat	ub BB body BB body PB body	X (36points/360°) Labyrinth & Contact Contact X X Grinding CBN Steel - Aluminum Anodized Steel				
Quick end Seal Internal gr Bearing FREEHUB body Hub shell Axle QR lever	gagement Hu FREEHU ease sleeve Stainle Co Mate Fin	ub BB body BB body PSS ball Up ne erial ish erial ish erial ish erial ish erial ish erial ish erial	X (36points/360°) Labyrinth & Contact Contact X X X Grinding CBN Steel - Aluminum Anodized Steel				
Quick end Seal Internal gr Bearing FREEHUB body Hub shell Axle QR lever QR housing QR nut	gagement Hit FREEHU ease sleeve Stainle Co Mate Fin Mate Fin Mate Fin Mate Fin Mate Fin Mate Fin Mate Mate Mate Mate Mate Mate Mate Mate	ub JB body JB body ne erial ish erial ish erial ish erial ish lor erial ish	X (36points/360°) Labyrinth & Contact Contact X X X Grinding CBN Steel - Aluminum Anodized Steel				
Quick end Seal Internal gr Bearing FREEHUB body Hub shell Axle QR lever QR housing	gagement Hu FREEHU ease sleeve Stainle Cu Co Mate Fin	ub BB body BB body PB body	X (36points/360°) Labyrinth & Contact Contact X X Grinding CBN Steel - Aluminum Anodized Steel				
Quick end Seal Internal gr Bearing FREEHUB body Hub shell Axle QR lever QR housing QR nut Rotor lock ring	gagement Htt FREEHU ease sleeve Stainle Ct Co Matt Fin Matt	ub BB body BB body PB body	X (36points/360°) Labyrinth & Contact Contact X X X Grinding CBN Steel Aluminum Anodized Steel				
Quick end Seal Internal gr Bearing FREEHUB body Hub shell Axle QR lever QR housing QR nut Rotor lock ring Average *w/o axle, Ql	gagement Htt FREEHU ease sleeve Stainle Ct Co Matt Fin Matt	ub BB body BB body PB body	X (36points/360°) Labyrinth & Contact Contact X X X Grinding CBN Steel - Aluminum Anodized Steel				

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CI-DECK

Ser	ries		XTR	XTR	XTR	XTR	XTR	XTR
	Series Model no. Color		WH-M9000-TU-F15-29	WH-M9000-TU-R12-29	WH-M9000-TU-R-29	WH-M9000-TL-F15-29	WH-M9000-TL-R12-29	WH-M9000-TL-R-29
	Color 1 2		Series color	Series color	Series color	Series color	Series color	Series color
Color ———		2	-	-	=	-	=	-
2 Front / Rear Brake Type			Front	Rear	Rear	Front	Rear	Rear
Brake Type Speeds			CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
			-	MTB 11-speed***	MTB 11-speed***	-	MTB 11-speed***	MTB 11-speed***
	O.L.D. (mm) Wheel Size		100	142	135	100	142	135
			29inch	29inch	29inch	622x20C (29")	622x20C (29")	622x20C (29")
1			X	X	Х	X	X	X
Totor lock ring			-	-	-	UST /	UST /	UST /
Tire	Ту	pe	Tubular	Tubular	Tubular	Clincher *	Clincher *	Clincher *
	Recomme	nded size	29x1.90-2.10	29x1.90-2.10	29x1.90-2.10	29x1.90-2.25	29x1.90-2.25	29x1.90-2.25
	Heigh		23	23	23	18.8	18.8	18.8
		(mm)	26	26	26	23.9	23.9	23.9
Rim		joint	CFRP monocoque	CFRP monocoque	CFRP monocoque	Welding	Welding	Welding
			-	-	-	-	-	-
	Brazed reinforcement OFFSET RIM		Х	Х	Х	X	X	X
	OFFSET RIM Requires rim tape Number		- 20	- 20	- 20	X**	X**	X**
	Nun Straig		28 X	28 X	28 X	28 X	28 X	28 X
Spokes		end	X -	. X	. X	X	X	- X
Shoves		ted	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
		ded	-	-	-	-	-	-
							12mm	
	Fixing	method	15mm E-THRU	12mm E-THRU	QR	15mm E-THRU	E-THRU	QR
	QR	133	-	-	-		-	-
	skewer length	168	-	-	X	-	-	X
Axle	(mm)	173	-	-	Х	-	-	X
	Thru Axle	100 x 15	Х	-		Х	-	-
	Length	110 x 15	-	_	-	-	-	-
	x Inner	142 x 12	-	Х	-	-	Х	-
	Diameter (mm) 142 x 12		-	-	-	-	-	-
Quick eng	gagement		-	X (36points/360°)	X (36points/360°)	-	X (36points/360°)	X (36points/360°)
	Stainle	ess ball	X	Х	Х	X	Х	X
Bearing	Cı	ıp	Grinding	Grinding	Grinding	Grinding	Grinding	Grinding
	Co	ne	CBN	CBN	CBN	CBN	CBN	CBN
Seal	H	ub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHL	JB body	·	Contact	Contact	-	Contact	Contact
Internal gr	ease sleeve		X	Х	Х	X	X	X
Rim	Mat	erial	CFRP	CFRP	CFRP	Carbon/ Aluminum	CFRP/ Aluminum	CFRP/ Aluminum
Killi	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
		erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Spoke			Black	Black	Black	Black	Black	Black
B17 1 .			Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Nipple	Finish Material Finish		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
EDEEnilo Page	Pople Finish Material		-	Titanium	Titanium	-	Titanium	Titanium
FREEHUB body	Fin	ish		-	-	-	-	-
Hub shell		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
as silell		ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
-		ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
05.1		erial	-	-	Aluminum	-	-	Aluminum
QR lever		ish lor	-	-	Anodized	-	-	Anodized
		erial	-	-	Series color Aluminum	-	-	Series color Aluminum
QR housing		ish	-	-	Anodized	-	-	Anodized
			-	-	Resin & Steel	-	-	Resin & Steel
QR nut	R nut Material Finish		-	-	-	-	-	-
But I I I	Finish Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rotor lock ring		ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	JIS/0	CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
Reflector		S	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
	D	IN	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
A	weight		606 g	739 g	742 g	761 g	894 g	894 g
	tape, valve st	em, lock ring)		, , , ,	· 9	, , , ,		
	(w/o QR, rim tape, tubeless tape, valve stem, lock ring)						* Max pressure	* Max pressure
							280kPa	280kPa
(w/o QR, rim tape, tubeless	nta			*** CP is available	*** CP is available	* Max pressure	280kPa ** Exclusive rim tape	280kPa ** Exclusive rim tape
(w/o QR, rim tape, tubeless	ote			*** CP is available only for 11-speed	*** CP is available only for 11-speed	* Max pressure 280kPa ** Exclusive rim tape	** Exclusive rim tape *** CP is available	** Exclusive rim tape *** CP is available
(w/o QR, rim tape, tubeless	ote					280kPa	** Exclusive rim tape	** Exclusive rim tape

BR

SMCR

ВВ

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Model no.	Ser	ies		XTR	XTR	XTR	XTR	XTR	XTR
The content of the				WH-M9000-TL-	WH-M9000-TL-				WH-M9020-TL-
Front Fron									
Brake Type	Color								
Speeds	Front	/ Rear		Front	Rear	Rear	Front	Rear	Front
1.0.0, mm		<u> </u>							
Wheel Stee	<u>_</u>				•	•			
Time	1		th				` ,	, ,	
Time Preservement Clinicher * Clini		with	nout	-	-	-	-	-	-
Recommended size 27.51.09-2.25 27.3.109-2.25 27.3.109-2.25 27.3.109-2.25 27.9.20-2.35 37.5.20-2.25 27.9.20-2.35 37.5.20-2.25 27.9.20-2.35 37.5.20-2.25 27.9.20-2.35 37.5.20-2.25 27.9.20-2.35 37.5.20-2.25 27.9.20-2.35 37.5.20-2.25 27.9.20-2.35 37.5.20-2.25 27.9.20-2.35 37.5.20-2.25 27.9.20-2.35 37.5.20-2.25 27.9.20-2.35 27.9.20-2.35 27.9.20-2.25 27.9.20-2.	Tin-	Ty	pe						
Height from 18.8	Tire	Recomme	nded size						
Bin pinch Meckleng Wedling									
Right		Width	(mm)		23.9	23.9	27.9		27.9
Requires rim upps	Rim			Welding	Welding	Welding	Welding	Welding	Welding
Requires image Number 28 78 78 78 78 78 78 78				- V	- V	- V	- V	v	- V
Spokes									
Spokes		<u> </u>							
Butted 2.0-1.5-2.0 2.0-1		Straigl	ht pull	X	X	X	X	X	X
Fixing method	Spokes							-	
Fixing method 15mm E-THRU				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
Aside				-	- 12mm			- 12mm	-
Selection 188		Fixing r	method	15mm E-THRU		QR	15mm E-THRU		15mm E-THRU
Axle				-	-		-	-	-
Axio				-	-		-	-	-
Length Sinner 142 x 12	Axle		173	-	-	X	-	-	-
Name									
Diameter 148 x 12 X (36points/360°) X (36points/360°) X (36points/360°)									
Quick engagement					X	-			
Stainless ball X	Ouick end	<u> </u>	140 X 12	-	X (36noints/360°)	X (36noints/360°)			
Cone CBN	Quick eng		ess ball	Х					
Hub Labyrinth & Contact Contac	Bearing	Cı	ıb	Grinding	Grinding	Grinding	Grinding	Grinding	Grinding
FREEHUB body		Co	ne	CBN	CBN	CBN	CBN	CBN	CBN
Internal grease sleeve X X X X X X X X X X X X Adminimal Adminimal CFRP/ Aluminum CFRP/ Aluminum CFRP/ Aluminum	Seal					•	•	•	· ·
Rim Material Carbon/ Aluminum CFRP/ Aluminum Carbon/ Aluminum Aluminum Painted	Internal ave		B body						
Rim Material Aluminum CFRP/ Aluminum internal gre									
Spoke Material Stainless steel Anodized Anodize	Rim	Mate	erial		CFRP/ Aluminum	CFRP/ Aluminum		CFRP/ Aluminum	
Spoke Finish Black Bla									
Nipple Material Aluminum	Spoke								
Nipple Finish Anodized Finish									
FREEHUB body Material	Nipple								
Hub shell Hub shell Aluminum A	EDEEnilo Pega		_						
Hub shell Finish Anodized Anod	FREEHUB BOORY	$\overline{}$	$\overline{}$		-	-		-	
Axle Finish Anodized Anodiz	Hub shell	_							
Axle Finish Anodized	 								
Material -	Axle								
Color Series color									
Material -	QR lever	Fin	ish	-	-		-	-	-
Prinish Prin									
Material - Resin & Steel - -	QR housing								
Rotor lock ring Material Aluminum Alu	-								
Material Aluminum	QR nut				-	-	-		-
Finish Anodized Anodi	Data de la electrica			Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
AS CATEYE RR-550-WUA SW DIN CATEYE RR-550-WUA SW CATEYE RR-550-WUA SW DIN CATEYE RR-317-WUA SW CATEYE RR-550-WUA S	KOTOR IOCK RING	Rotor lock ring		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring) Note OATEYE RR-317-WUA SW CATEYE RR-317-WUA SW P10 g ** Max pressure 280kPa ** Exclusive rim tape ** Exclusive rim tape *** CP is available only for MTB *** Exclusive rim tape *** CP is available only for MTB *** Exclusive rim tape *** CP is available only for MTB *** Exclusive rim tape *** CP is available only for MTB *** Exclusive rim tape *** CP is available only for MTB *** Exclusive rim tape *** CP is available only for MTB		JIS/CPSC							
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring) **Max pressure 280kPa ** Exclusive rim tape ** Exclusive ri									
(w/o QR, rim tape, tubeless tape, valve stem, lock ring) **Max pressure 280kPa ** Exclusive rim tape ** Exclu									
* Max pressure 280kPa ** Exclusive rim tape 280kPa ** Exclusive rim tape 280kPa ** Exclusive rim tape only for MTB ** CP is available only for MTB ** Exclusive rim tape only for MTB ** Max pressure 260kPa ** Exclusive rim tape ** Exclusive rim tape only for MTB ** Max pressure 260kPa ** Exclusive rim tape only for MTB ** Exclusive rim tape only for MTB			em, lock ring)	724 g	857 g	857 g	777 g	910 g	750 g
Note ** Max pressure 280kPa ** Exclusive rim tape ** CP is available only for MTB ** Exclusive rim tape only for MTB ** Exclusive rim tape ** CP is available only for MTB ** Exclusive rim tape only for MTB									
*** CP is available only for MTB									
Only for MIB ONLY FOR MIB ONLY FOR MIB	l No	ıe			*** CP is available	*** CP is available		*** CP is available	
				·					·

Ser	ries		XTR	DEORE XT				
Mode	el no.		WH-M9020-TL- R12-275	WH-M8000-TL-F-29	WH-M8000-TL-F15-29	WH-M8000-TL-F15- B-29	WH-M8000-TL-R-29	WH-M8000-TL-R12-29
Color		1	Series color	Series color	Series color	Series color	Series color	Series color
Front		2	- Rear	- Front	- Front	- Front	- Rear	- Rear
Brake			CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Spe	eds		MTB 11-speed***	-	-	-	8-10 speed	8-10 speed
O.L.D.	(mm)		142	100	100	110	MTB 11-speed 135	MTB 11-speed 142
Whee			584x24C (650B=27.5")	622x20C (29")				
External serration		ith	Х	-	Х	Х	-	-
rotor lock ring	with	nout	- UST /	UST /	- UST /	- UST /	- UST /	- UST /
Tire	Ту	pe	Clincher *	Clincher *	Clincher *	Clincher *	Clincher *	Clincher *
		nded size	27.5x2.00-2.40	29x1.90-2.25	29x1.90-2.25	29x1.90-2.25	29x1.90-2.25	29x1.90-2.25
	Heigh: Width		18.8 27.9	18.8 23.9	18.8	18.8 23.9	18.8 23.9	18.8 23.9
P		joint	Welding	Welding	Welding	Welding	Welding	Welding
Rim		forcement	-	-	-	-	-	-
	OFFSE		X X**	X X**	X X**	X X**	X X**	X X**
	· ·	rim tape nber	28	28	28	28	28	28
		ht pull	X	X	X	X	X	X
Spokes	J-b		-	-		-		-
		ded	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.8-2.0	2.0-1.5-2.0	2.0-1.5-2.0
			12mm					
		method	E-THRU	QR	15mm E-THRU	15mm E-THRU	QR	12mm E-THRU
	QR skewer	133 168	-	X -		-	- X	-
	length	173	-	-			X	-
Axle	(mm) Thru Axle	100 x 15	-		X		-	-
	Length	110 x 15	-	-	-	Х	-	-
	x Inner Diameter	142 x 12	Х	-	-	-	-	Х
	(mm)	148 x 12	-	-	-	-	-	-
Quick eng	gagement Stainle	ess ball	X (36points/360°) X	-	- X	-	X (36points/360°)	X (36points/360°)
Bearing		ıp	Grinding	Grinding	Grinding	Grinding	Grinding	-
	Co	ne	CBN	CBN	CBN	CBN	CBN	CBN
Seal		ub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Internal gr	ease sleeve	JB body	Contact X	X	- X	- X	Contact X	Contact X
Rim		erial	CFRP/ Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Killi	Fin		Painted	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke		erial ish	Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black
		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Nipple		ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
FREEHUB body		erial	Titanium	Steel	Steel	Steel	Steel	Steel
		ish erial	Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum
Hub shell		ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
		ish erial	Anodized -	Anodized	Anodized -	Anodized -	Anodized	Anodized
QR lever		eri al ish	-	Aluminum Anodized	-	-	Aluminum Anodized	-
		lor	-	Series color	-	-	Series color	-
QR housing		erial	-	Aluminum	-	-	Aluminum	-
		ish erial	-	Anodized Resin & Steel	-	-	Anodized Resin & Steel	-
QR nut	QR nut Material Finish		-	-	-	-	-	-
Rotor lock ring		erial	Aluminum	-	Aluminum	Aluminum	-	-
		ish	Anodized CATEYE RR-550-WUW SW	- CATEYE RR-550-WUW SW	Anodized CATEYE RR-550-WUW SW	Anodized CATEYE RR-550-WUW SW	- CATEYE RR-550-WUW SW	- CATEYE RR-550-WUW SW
Reflector	Reflector AS		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
	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 (w/o QR, rim tape, tubeless	weight	em lock ring)	880 g	839 g	796 g	843 g	1,017 g	1,046 g
W/o QK, rim tape, tubeless		eni, iock fing)	* Max pressure 280kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed	* Max pressure 300kPa ** Exclusive rim tape				
			. г эрсси					

RD

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Sei	ries		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Mode	Model no. Color 1 2		WH-M8000-TL-R12- B-29	WH-M8000-TL-F-275	WH-M8000-TL- F15-275	WH-M8000-TL-F15- B-275	WH-M8000-TL-R-275	WH-M8000-TL- R12-275
Color			Series color	Series color	Series color	Series color	Series color	Series color
		2	-	-	-	-	-	-
	/ Rear		Rear	Front	Front	Front	Rear	Rear CENTER LOCK Disc
Втаке	Туре		CENTER LOCK Disc 8-10 speed	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc 8-10 speed	8-10 speed
· ·	eds ————		MTB 11-speed	-	-	-	MTB 11-speed	MTB 11-speed
	. (mm)		148	100	100	110	135	142
	el Size		622x20C (29")	584x20C (650B=27.5")	584x20C (650B=27.5")	584x20C (650B=27.5")	584x20C (650B=27.5")	584x20C (650B=27.5")
External serration rotor lock ring	With	nout	-	-	X	X	-	-
			UST /	UST /	UST /	UST /	UST /	UST /
Tire	Ту	pe	Clincher *	Clincher *	Clincher *	Clincher *	Clincher *	Clincher *
	Recomme	nded size	29x1.90-2.25	27.5x1.90-2.25	27.5x1.90-2.25	27.5x1.90-2.25	27.5x1.90-2.25	27.5x1.90-2.25
	Height		18.8	18.8	18.8	18.8	18.8	18.8
	Width		23.9	23.9	23.9	23.9	23.9	23.9
Rim		joint	Welding	Welding -	Welding	Welding	Welding	Welding -
	Brazed reir	T RIM	- X	- X	- X	X	X	- X
		rim tape	X**	X**	X**	X**	X**	X**
	<u> </u>	nber	28	28	28	28	28	28
		ht pull	X	X	X	X	X	X
Spokes	J-be	end	-	-	-	-		-
	But		2.0-1.8-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.8-2.0	2.0-1.5-2.0	2.0-1.5-2.0
	Blac		-	-			-	-
	Fixing r		12mm E-THRU	QR	15mm E-THRU	15mm E-THRU	QR	12mm E-THRU
	QR skewer	133 168	-	X -	-	-	- X	-
	length	173	-	-		-	X	-
Axle	(mm)		-		-	-		
	Thru Axle Length	100 x 15 110 x 15	-	-	X	X	-	-
	x Inner	142 x 12	-	-		- ^	-	X
	Diameter (mm)	148 x 12	Х			-	-	-
Ouick end	gagement		X (36points/360°)		-	_	X (36points/360°)	X (36points/360°)
	Stainle	ess ball	-		Х	-	-	-
Bearing	Cı	ıp	Grinding	Grinding	Grinding	Grinding	Grinding	-
	Co	ne	CBN	CBN	CBN	CBN	CBN	CBN
Seal	Hu		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHU	JB body	Contact	-	-	-	Contact	Contact
Internal gr	ease sleeve	- ulal	Aluminum	X Alveriance	X	X Alversia vers	X	X
Rim	Mate Fin	_	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
	Mate		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Spoke	Fin		Black	Black	Black	Black	Black	Black
Ninala	Mat		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Nipple	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
FREEHUB body	Mat		Steel	Steel	Steel	Steel	Steel	Steel
	Fin			-	-	-	-	-
Hub shell		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin Mat		Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum
Axle		ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Mat		-	Aluminum	-	-	Aluminum	-
QR lever		ish	-	Anodized	-	-	Anodized	-
	Со	lor	-	Series color	-	-	Series color	-
QR housing		erial	-	Aluminum	-	-	Aluminum	-
43u3iiig		ish	-	Anodized	-	-	Anodized	-
QR nut	Mate		-	Resin & Steel	-	-	Resin & Steel	-
	Fin		-	-	Aluminum	Aluminum	-	-
Rotor lock ring	Mate Fin		-	-	Aluminum Anodized	Aluminum Anodized	-	-
	Finish JIS/CPSC		CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
Reflector	A		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
		IN	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 (w/o QR, rim tape, tubeless	weight tape, valve ste	em, lock ring)	1,049 g	809 g	766 g	814 g	986 g	1,017 g
	ote		* Max pressure 300kPa	* Max pressure 300kPa	* Max pressure 300kPa	* Max pressure 300kPa	* Max pressure 300kPa	* Max pressure 300kPa
			** Exclusive rim tape	** Exclusive rim tape	** Exclusive rim tape	** Exclusive rim tape	** Exclusive rim tape	** Exclusive rim tape

Ser	ries		DEORE XT					
Mode	Model no.		WH-M8000-TL-R12- B-275	WH-M8020-TL-F15-29	WH-M8020-TL-F15- B-29	WH-M8020-TL-R12-29	WH-M8020-TL-R12- B-29	WH-M8020-TL- F15-275
Color			Series color					
Front	/ Poor	2	- Rear	- Front	- Front	- Rear	- Rear	- Front
	Type		CENTER LOCK Disc					
			8-10 speed	CENTER EOCK DISC	CENTER EOCK DISC	8-10 speed	8-10 speed	CENTER EOCK DISC
Spe	eds		MTB 11-speed	-	-	MTB 11-speed	MTB 11-speed	-
O.L.D.	(mm)		148	100	110	142	148	100
Whee	l Size		584x20C (650B=27.5")	622x24C (29")	622x24C (29")	622x24C (29")	622x24C (29")	584x24C (650B=27.5")
External serration	wi		-	Х	X	-	-	X
rotor lock ring	with	nout	- UST /	-	-	- LIST /	- UCT /	-
Tire	Ту	pe	UST / Clincher *					
	Recomme	nded size	27.5x1.90-2.25	29x2.00-2.35	29x2.00-2.35	29x2.00-2.35	29x2.00-2.35	27.5x2.00-2.40
	Height	t (mm)	18.8	18.8	18.8	18.8	18.8	18.8
	Width	(mm)	23.9	27.9	27.9	27.9	27.9	27.9
Rim	Rim	joint	Welding	Welding	Welding	Welding	Welding	Welding
l Kiiii	Brazed rein		-	-	-	-	-	-
	OFFSE		Х	X	X	X	X	X
	Requires	-	X**	X**	X**	X**	X**	X**
	Num		28	28	28	28 X	28	28
Spokes	Straigl J-be		X -	X -	X	X	X	X
3hove2	J-De But		2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0
	Blac		-	-	2.0-1.0-2.0		-	-
	Fixing r		12mm E-THRU	15mm E-THRU	15mm E-THRU	12mm E-THRU	12mm E-THRU	15mm E-THRU
	QR	133	-	-	-	-	-	-
	skewer	168	-	-	-	-	-	-
	length (mm)	173	-	-		-	-	-
Axle	Thru Axle	100 x 15	-	X	-	-	-	Х
AXIE -	Length	110 x 15	-	-	X	-	-	-
	x Inner Diameter	142 x 12	-		-	X	-	-
	(mm)	148 x 12	Х	-	-	-	Х	-
Quick eng	gagement		X (36points/360°)	-	-	X (36points/360°)	X (36points/360°)	-
	Stainle	ess ball	-	Х	-	-	-	Х
Bearing	Cı	•	Grinding	Grinding	Grinding	-	Grinding	Grinding
		ne	CBN	CBN	CBN	CBN	CBN	CBN
Seal	Hu		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact Contact	Labyrinth & Contact Contact	Labyrinth & Contact
Internal ar	FREEHU ease sleeve	ов войу	Contact	X	X	X	X	X
internar gr	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rim	Fin	_	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Cl	Mat	erial	Stainless steel					
Spoke	Fin	ish	Black	Black	Black	Black	Black	Black
Nipple	Mat		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
,,,,,,	Fin		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
FREEHUB body	Mate	$\overline{}$	Steel	Steel	Steel	Steel	Steel	Steel
	Fin Mat		Aluminum	Al.,min.,	Aluminu	Aluminu	Aluminus-	Aluminu
Hub shell	Fin		Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
	Mate	_	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Axle	Fin		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Mate	erial	-	-	-	-	-	-
QR lever	Fin	ish	-	-	-	-	-	-
	Co		-	-	-	-	-	-
QR housing	Mate		-	-	-	-	-	-
	Fin		-	-	-	-	-	-
QR nut	Mate Fin		-	-	-	-	-	-
	Mate		-	Aluminum	Aluminum	-	-	Aluminum
Rotor lock ring	Fin		-	Anodized	Anodized	-	-	Anodized
		CPSC	CATEYE RR-550-WUW SW					
Reflector	А		CATEYE RR-550-WUA SW					
	DI	IN	CATEYE RR-317-WUA SW					
Average (w/o QR, rim tape, tubeless	weight tape, valve ste	em, lock ring)	1,020 g	836 g	881 g	1,085 g	1,088 g	802 g
No	ote		* Max pressure 300kPa ** Exclusive rim tape					
			Exclusive IIIII tape	Exclusive IIII tape	Exclusive IIII tape	Exclusive IIII tape	Exclusive IIII tape	Exclusive IIIII tape

FD

BR

BR

SMCR

ВВ

MF

НВ

НВ

Ser	ries		DEORE XT	DEORE XT	DEORE XT	SHIMANO	SHIMANO	SHIMANO
Mode	Model no. Color 1 2		WH-M8020-TL-F15- B-275	WH-M8020-TL- R12-275	WH-M8020-TL-R12- B-275	WH-MT500-CL- F-275	WH-MT500-CL- R-275	WH-MT500-CL- F15-275
Color			Series color	Series color	Series color	Black	Black	Black
Front		2	- Front	- Rear	- Rear	- Front	- Rear	- Front
Brake			CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
			CENTER EOCK DISC	8-10 speed	8-10 speed	CENTER EOCK DISC	8-10 speed	CENTER EOCK DISC
Spe	eas		-	MTB 11-speed	MTB 11-speed	-	MTB 11-speed***	-
O.L.D.			110	142	148	100	135	100
	el Size wi	<u> </u>	584x24C (650B=27.5")	584x24C (650B=27.5")	584x24C (650B=27.5")	584x24C (650B=27.5")	584x24C (650B=27.5")	584x24C (650B=27.5")
External serration rotor lock ring	with		X -	-	-	-	-	X -
,			UST /	UST /	UST /	CI. I	CI. I	CI. I
Tire	Ту		Clincher *	Clincher *	Clincher *	Clincher	Clincher	Clincher
	Recomme		27.5x2.00-2.40	27.5x2.00-2.40	27.5x2.00-2.40	27.5x2.00-2.40	27.5x2.00-2.40	27.5x2.00-2.40
	Height Width		18.8 27.9	18.8 27.9	18.8 27.9	21 29.6	21 29.6	21 29.6
	Rim		Welding	Welding	Welding	Sleeve	Sleeve	Sleeve
Rim	Brazed reir		-	-	-	3.00.0	-	-
	OFFSE	T RIM	Х	Х	Х		-	-
	Requires		X**	X**	X**	X (24-584)	X (24-584)	X (24-584)
	Num		28	28	28	24	24	24
Spokes	Straigl J-be		X -	X -	X	- X	- X	- X
Spokes	J-De But		2.0-1.8-2.0	2.0-1.82.0	2.0-1,8-2.0	2.3	2.3	2.3
	Blac		-	-	2.0 1.0 2.0	-	-	-
	Fixing r		15mm E-THRU	12mm E-THRU	12mm E-THRU	QR	QR	15mm E-THRU
	QR	133	-	-	-	Х	-	-
	skewer length	168	-	-			X	-
Axle	(mm)	173	-	-		-	X	-
AME	Thru Axle	100 x 15	-	-	-	-	-	X
	Length x Inner	110 x 15	X	-	-	-	-	-
	Diameter	142 x 12	-	X	-	-	-	-
Ouisk and	(mm) gagement	148 x 12	-	V (26 no ints/260°)	X (36points/360°)	<u>-</u>	-	-
Quick eng	Stainle	ss hall		X (36points/360°)	- (36points/360)	-	-	-
Bearing	Cı		Grinding	-	Grinding	-	-	-
	Co	ne	CBN	CBN	CBN	CBN	CBN	CBN
Seal	Hu		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHU	IB body	-	-	Contact	-	-	Contact
Internal gr	Mat	orial	Aluminum	X Aluminum	X Aluminum	X Aluminum	X Aluminum	X Aluminum
Rim	Fin	$\overline{}$	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
6	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Spoke	Fin		Black	Black	Black	Black	Black	Black
Nipple	Mat		Aluminum	Aluminum	Aluminum	Brass	Brass	Brass
FF 7	Fin		Anodized	Anodized	Anodized	Black	Black	Black
FREEHUB body	Mate Fin	$\overline{}$	Steel	Steel -	Steel -	-	-	Steel -
	Mat	-	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Fin		Anodized	Anodized	Anodized	Painted	Painted	Painted
Axle	Mat		Aluminum	Aluminum	Aluminum	Steel	Steel	Aluminum
FIAIS	Fin	$\overline{}$	Anodized	Anodized	Anodized	-	-	Anodized
On love:	Mate		-	-	-	Aluminum	Aluminum	-
QR lever	Fin Co		-	-	-	Painted Black	Painted Black	-
25.	Mate		-	-	-	Steel	Steel	-
QR housing	Fin		-	-	-	Painted	Painted	-
QR nut	Mat		-	-	-	Resin & Steel	Resin & Steel	-
Qii iiut	Fin		-	-	-	-	-	-
Rotor lock ring	Mate Fin		Aluminum	-	-	-	-	Steel
	JIS/C		Anodized CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	Painted RR-550-WUW SW
Reflector	, , , , A		CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW
	DI		CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW
Average (w/o QR, rim tape, tubeless	weight tape, valve ste	em, lock ring)	847 g	1,050 g	1,053 g	912 g	1,098 g	887 g
No	ote		* Max pressure 300kPa	* Max pressure 300kPa	* Max pressure 300kPa	-	-	-
			** Exclusive rim tape	** Exclusive rim tape	** Exclusive rim tape			

Ser	ies		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	Model no.		WH-MT500-CL- R12-275	WH-MT500-CL- F15-B-275	WH-MT500-CL- R12-B-275	WH-MT500-CL- F-29	WH-MT500-CL- R-29	WH-MT500-CL- F15-29
	1	1	Black	Black	Black	Black	Black	Black
Color	2	2	-	-	-	-	-	-
Front	/ Rear		Rear	Front	Rear	Front	Rear	Front
Brake	Туре		CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Spe	eds		8-10 speed MTB 11-speed***	-	8-10 speed MTB 11-speed***	-	8-10 speed MTB 11-speed***	-
O.L.D.	O.L.D. (mm) Wheel Size		142	110	148	100	135	100
Whee			584x24C (650B=27.5")	584x24C (650B=27.5")	584x24C (650B=27.5")	622x24C	622x24C	622x24C
External serration rotor lock ring	wi		-	X	-	-	-	Х
Total lack filig	with Ty		- Clincher	- Clincher	- Clincher	- Clincher	- Clincher	- Clincher
Tire	Recomme		27.5x2.00-2.40	27.5x2.00-2.40	27.5x2.00-2.40	29x2.00-2.40	29x2.00-2.40	29x2.00-2.40
	Height	t (mm)	21	21	21	21	21	21
	Width	(mm)	29.6	29.6	29.6	29.6	29.6	29.6
Rim	Rim j		Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed rein		-	-	-	-		-
	OFFSET RIM Requires rim tape		- V (24 E94)	- V (24 E94)	- V (24 E94)	Y (24 622)	- X (24-622)	- X (24-622)
	Requires rim tape Number		X (24-584) 24	X (24-584) 24	X (24-584) 24	X (24-622) 24	24	24
	Straight pull		-	-	-	-	-	-
Spokes	J-be	end	Х	Х	Х	X	Х	Х
	Butted Bladed		2.3	2.3	2.3	2.3	2.3	2.3
	Bladed Fixing method			-	42		-	-
	Fixing r QR	nethod 133	12mm E-THRU	15mm E-THRU	12mm E-THRU	QR X	QR -	15mm E-THRU
	skewer	168	-	-		^	X	-
	length	173	_	_		_	X	_
Axle	(mm) Thru Axle	100 x 15	_	_	-	-	-	Х
	Length	110 x 15	-	X	-	-	-	-
Axle - Quick eng	x Inner Diameter	142 x 12	Х	-		-	-	-
	(mm)	148 x 12	-	-	Х	-	-	-
Quick eng	gagement		-	•	-	-	-	-
	Stainle		-	·	-	-	-	-
Bearing	Cu	•	- CDNI	- CDN	-	- CDN	- CDN	- CDAI
	Co Hu		CBN Labyrinth & Contact	CBN Labyrinth & Contact	CBN Labyrinth & Contact	CBN Labyrinth & Contact	CBN Labyrinth & Contact	CBN Labyrinth & Contact
Seal	FREEHU		Contact	-	Contact	-	-	Contact
Internal gr			Х	Х	Х	Х	Х	Х
Rim	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Killi	Fin		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Mate	$\overline{}$	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Fin Mate		Black Brass	Black Brass	Black Brass	Black Brass	Black Brass	Black Brass
Nipple	Fin		Black	Black	Black	Black	Black	Black
EDECUMB!	Mate		Steel	-	Steel	-	-	Steel
FREEHUB body	Fin	ish		-	-	-	-	-
Hub shell	Mate		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin		Painted	Painted	Painted	Painted	Painted	Painted
Axle	Mate	ish	Steel -	Aluminum Anodized	Steel -	Steel -	Steel -	Aluminum Anodized
	Mate		-	- Anodized	-	- Aluminum	Aluminum	- Anodized
QR lever	Fin		-	-	-	Painted	Painted	-
	Co	lor	-	-	-	Black	Black	-
QR housing	Color Material		-	-	-	Steel	Steel	-
Z.: 1100031119	Fin		-	-	-	Painted	Painted	-
QR nut	Mate		-	-	-	Resin & Steel	Resin & Steel	-
	Fin Mate		-	- Steel	-	-	-	- Steel
Rotor lock ring	Fin		-	Painted	-	-	-	Painted
		PSC	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW
Reflector	А		RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW
	DI	N	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW
Average (w/o QR, rim tape, tubeless	weight	am lock ring)	1,099 g	897 g	1,111 g	955 g	1,142 g	930 g
(W/O QK, rim tape, tubeless		, iock filig)	-	-	-	-	_	-

Seri	es		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model	odel no.		WH-MT500-CL- R12-29	WH-MT500-CL- F15-B-29	WH-MT500-CL- R12-B-29	WH-MT35-F	WH-MT35-F15	WH-MT35-R
	1	ı	Black	Black	Black	Black	Black	Black
Color	2	2	-	-	-	White	White	White
Front /	Rear		Rear	Front	Rear	Front	Front	Rear
Brake '	Туре		CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Spee	eds		8-10 speed MTB 11-speed***	-	8-10 speed MTB 11-speed***	-	-	8-10 speed MTB 11-speed***
O.L.D.			142	110	148	100	100	135
Wheel			622x24C	622x24C	622x24C	559x19C (26")	559x19C (26")	559x19C (26")
External serration rotor lock ring	wi		-	Х	-	-	X	-
TOTOL TOCK TING	with		- Clincher	- Clincher	- Clincher	- clinchor	- clinchor	- clincher
Tire	Recomme		Clincher 29x2.00-2.40	29x2.00-2.40	Clincher 29x2.00-2.40	clincher 26x1.50-2.25	clincher 26x1.50-2.25	clincher 26x1.50-2.25
	Height		21	21	21	19	19	19
-	Width		29.6	29.6	29.6	24.6	24.6	24.6
	Rim		Sleeve	Sleeve	Sleeve	Welding	Welding	Welding
Rim	Brazed reir	forcement	-	-	-	-		-
	OFFSE	T RIM	-	-	-	<u>_</u>	-	-
	Requires	rim tape	X (24-622)	X (24-622)	X (24-622)	X (20-559)	X (20-559)	X (20-559)
	Num		24	24	24	24	24	28
	Straig		-	-	-			-
Spokes	J-be		X	X	X	X	X	X
-	But		2.3	2.3	2.3	2.0	2.0	2.0
	Blac Fixing r		- 12mm E-THRU	- 15mm E-THRU	12mm E-THRU	QR QR	X 15mm E-THRU	X QR
ŀ	QR	netnoa 133	12111111 E-1 HKU	I SIIIIII E-I HKU	IZIIIIII E-IMKU	QR X	ISHIIII E-IMKU	QK -
	skewer	168	-	-		-	-	X
	length	173	_	_			_	X
Axle Thi	(mm)		<u>-</u>	-		-	X	
	Thru Axle Length	100 x 15 110 x 15	-	X	-	-		-
	x Inner	142 x 12	X	-		-	-	-
	Diameter (mm)	148 x 12	-		Х	_	_	_
Ouick eng	· , ,	140 % 12	_			_	_	_
 	Stainle	ss ball	-		-	-	-	-
Bearing	Cı		-			-	-	-
	Co	ne	CBN	CBN	CBN	CBN	CBN	CBN
Seal	Hu	ıb	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Seai	FREEHU	IB body	Contact	-	Contact	-	-	Contact
Internal gre			X	X	X	-	X	Х
Rim	Mate Fin		Aluminum Anodized	Aluminum	Aluminum	Aluminum Anodized (Black rim)/	Aluminum Anodized (Black rim)/	Aluminum Anodized (Black rim)/
						Painted (White rim)	Painted (White rim)	Painted (White rim)
Spoke	Mate		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Fin	ish erial	Black	Black Brass	Black Brass	Black Aluminum	Black Aluminum	Black Aluminum
Nipple	Fin		Brass Black	Black	Black	Black	Black	Black
	Mate		Steel	- DIACK	Steel	- DidCK	- DIACK	Steel
FREEHUB body	Fin	$\overline{}$	-	-	-	-	-	-
Hade at 10	Mat		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Fin		Painted	Painted	Painted	Anodized	Anodized	Anodized
Axle	Mat	erial	Steel	Aluminum	Steel	Steel	Aluminum	Steel
Avie		ish	-	Anodized	-	-	Anodized	-
	Mate		-	-	-	Aluminum	-	Aluminum
QR lever		ish	-	-	-	Anodized	-	Anodized
		lor	-	-	<u>-</u>	Black	-	Black
QR housing	Mate Fin		-	-	-	Steel Painted	-	Steel Painted
	Mate		-	-	-	Resin & Steel	-	Resin & Steel
QR nut	Fin		-	-	-	-	-	-
B. C. C.	Mate		-	Steel	-	-	Steel	-
Rotor lock ring	Fin		-	Painted	-	-	Painted	-
İ	JIS/C	PSC	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW
Reflector	А		RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW
		IN	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW
Average (w/o QR, rim tape, tubeless t		em, lock ring)	1,143 g	939 g	1,156 g	839 g	834 g	1,076 g
Not	te		-	-	-			*** CP is available only for 9 & 10-speed

SL

SMSL

BL BL

31

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

CS

MF

НВ

FH

WH

CI-DECK

May May	Ser			SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Post	Mode			WH-MT35-F-275	WH-MT35-F15-275	WH-MT35-R-275	WH-MT35-F-29	WH-MT35-F15-29	WH-MT35-R-29
	Color								
]						
Specific Specific									
M71 M71	Brake	Туре		CENTER LOCK Disc	CENTER LOCK Disc		CENTER LOCK Disc	CENTER LOCK Disc	
Wheel See	Spe	eds		-	-		-	-	' I
Section Sec	O.L.D.	(mm)		100	100	135	100	100	135
Trice Tri	Whee	l Size		584x19C (650B=27.5")	584x19C (650B=27.5")	584x19C (650B=27.5")	622x19C (29")	622x19C (29")	622x19C (29")
Time	External serration	wi	th	-	Х	-	-	Х	-
Neconstruct Property Prop	rotor lock ring	with	out	-	-	-	-	-	-
Recommended size 27,515,02.25 75,515,02.25	Tivo	Туј	ре	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
Hamily (Minima) (Min	lire	Recomme	nded size	27.5x1.50-2.25	27.5x1.50-2.25	27.5x1.50-2.25	29x1.50-2.25	29x1.50-2.25	29x1.50-2.25
Rim Peter Welding		Height	t (mm)	19	19	19	19	19	19
		Width	(mm)	24.6	24.6	24.6	24.6	24.6	24.6
	Rim	Rim j	joint	Welding	Welding	Welding	Welding	Welding	Welding
Page	""			-	-	-	-	-	-
Spokes		OFFSE	T RIM	-	-	-	-	-	-
Spokes				` '				` '	
Spokes File Spokes Spoke									
Batted 2.0 2			•						
Private Pri	Spokes								
Part									
Ada									
Material Material				,					-
Ashe									
Act				-	-		·	-	
Thru Alle 100 x 15 X X X X .	Axle	(mm)	173	-	-	X	-	-	Х
National 142 x 12			100 x 15	-	X	-	-	X	-
				-		-		-	-
			142 x 12	-			-	-	-
Stainless ball		(mm)	148 x 12	-	-	-	-	-	-
National Nationa	Quick eng	agement		-	-	-	-	-	-
Seal								-	
Note Hub Labyrinth & Contact Labyrinth & Contact Labyrinth & Contact Conta	Bearing		•		-				
Material Aluminum	Seal				-	-		•	
Material Aluminum	Internal au		в воау	-					
Rim Finish Anodized (Black rim) Painted (White rim) Pain	internal gre		orial	Aluminum					
Painted (White rim)	Rim								
Finish		Fin	ish			. ,	, ,		, , , , , , , , , , , , , ,
Finish	Spoke		$\overline{}$						
Finish									
Material Steel Steel Steel Steel Material Steel Material Steel Material Steel Material Aluminum Nipple									
Finish	FF 7								
Material Aluminum Steel Anodized A	FREEHUB body								
Hub shell			_						
Material Steel Aluminum Steel Steel Aluminum Steel Steel Aluminum Steel	Hub shell								
Finish		$\overline{}$		-					
Material Aluminum - Aluminum Aluminum - Aluminum - Anodized Anodized - Anodized - Anodized - Anodized - Anodized - Anodized - Anodized - Anodized - Anodized - Anodized - Anodized - Anodized - Anodized - Anodized - Anodized - Anodized - Anodized - Black Black - Bla	Axle					-			
Procession		_				Aluminum			
Color Black -	QR lever		$\overline{}$		-				
Material Steel - Steel - Steel - Steel - Painted - Painted - Painted - Painted - Painted - Painted - Resin & Steel - Resin & Steel - Resin & Steel - Resin & Steel - </td <td> </td> <td></td> <td>_</td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td>			_		-			-	
Material Resin & Steel - Resin & Steel Resin & Ste	OP houst	Mate	erial	Steel	-	Steel	Steel	-	Steel
Finish	QK nousing	Fin	ish	Painted	-	Painted	Painted	-	Painted
Note Prinish OR nut			Resin & Steel	-	Resin & Steel	Resin & Steel	-	Resin & Steel	
Rotor lock ring Finish - Painted - - Painted - Painted - Painted - Painted - Painted - Painted - Painted - Painted - Painted - Painted - Painted - Painted - Painted - Painted - Painted - Painted - Painted - Painted - Painted Q. nut			-		-			-	
Finish - Painted	Rotor lock rina								
Reflector AS RR-550-WUA SW RR317-WUA SW RR317-									
DIN RR317-WUA SW RR317-WUA									
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring) 874 g 889 g 1091 g 908 g 902 g 1,148 g *** CP is available *** CP is available	Reflector								
(w/o QR, rim tape, tubeless tape, valve stem, lock ring) 874 9 889 9 1091 9 908 9 902 9 1,148 9 Note *** CP is available *** CP is available *** CP is available			N	RR317-WUA SW	RR317-WUA SW	RK317-WUA SW	RR317-WUA SW	RK317-WUA SW	RK317-WUA SW
Note *** CP is available *** CP is available			em, lock ring)	874 g	889 g	1091 g	908 g	902 g	1,148 g
	<u> </u>	•	, rock ring)			*** CP is available			*** CP is available
	No	te							

Se	ries		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mod	el no.		WH-MT15-A-F-29	WH-MT15-A-F15-29	WH-MT15-A-R-29	WH-MT15-A-F-275	WH-MT15-A-F15-275	WH-MT15-A-R-275
Color	1		Black	Black	Black	Black	Black	Black
Coloi	2	2	White	White	White	White	White	White
Front	/ Rear		Front	Front	Rear	Front	Front	Rear
Brake	- Туре		CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Spe	eds		_	-	8-10 speed	-	-	8-10 speed
<u>.</u>					MTB 11-speed***			MTB 11-speed***
	. (mm)		100	100	135	100	100	135
	el Size		622x19C (29")	622x19C (29")	622x19C (29")	584x19C (650B=27.5")	584x19C (650B=27.5")	584x19C (650B=27.5"
External serration	wi		-	X	-	-	X	-
rotor lock ring	with		-	-	-	-	-	-
Tire	Ту		Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
	Recomme		29x1.50-2.25	29x1.50-2.25	29x1.50-2.25	27.5x1.90-2.25	27.5x1.90-2.25	27.5x1.90-2.25
	Height		21	21	21	21	21	21
	Width		24.6	24.6	24.6	24.6	24.6	24.6
Rim	Rim		Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve -
	Brazed rein			-	-		-	
	OFFSE		-		-	-	-	-
	Requires		X (20-622)	X (20-622)	X (20-622)	X (20-584)	X (20-584)	X (20-584)
	Num		28	28	28	28	28	28
6	Straigl	•	- V	- V	- V	- '	-	-
Spokes	J-be		X	X	X	X	X	X
	But		2.0	2.0	2.0	2.0	2.0	2.0
	Blac		X	X S TUDU	X	X	X X	X
	Fixing r		QR	15mm E-THRU	QR	QR	15mm E-THRU	QR
	QR skewer	133	X	-	-	Х	-	-
	length	168	-	-	Х	-	-	Х
Avlo	(mm)	173	-	-	X	-	-	Х
Axle	Thru Axle	100 x 15	-	Х	-	-	Х	-
	Length	110 x 15	-	-	-	-	-	-
	x Inner Diameter	142 x 12	-			-	-	-
	(mm)	148 x 12	-	-	-	-	-	-
Ouick en	gagement		-	-	-	_	-	-
•	Stainle	ss ball	-		-	-	-	-
Bearing	Cı		-		-	-	-	-
	Co	•	CBN	CBN	CBN	CBN	CBN	CBN
	Hu	ıb	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Seal	FREEHU		-	-	Contact	-	-	Contact
Internal gr	ease sleeve			Х	Х	-	Х	Х
	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rim	Fin	iah	Anodized (Black rim)/	Anodized (Black rim)/	Anodized (Black rim)/	Anodized (Black rim)/	Anodized (Black rim)/	Anodized (Black rim)
	FIII	1511	Painted (White rim)	Painted (White rim)	Painted (White rim)	Painted (White rim)	Painted (White rim)	Painted (White rim)
Spoke	Mate	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
эроке	Fin	ish	Black	Black	Black	Black	Black	Black
Nipple	Mate	erial	Brass	Brass	Brass	Brass	Brass	Brass
ιτιρμία	Fin		Silver	Silver	Silver	Silver	Silver	Silver
FREEHUB body	Mate		-	-	Steel	-	-	Steel
	Fin	$\overline{}$		-	-	-	-	-
					A I	A luma in uma	Aluminum	Aluminum
Hub shell	Mate		Aluminum	Aluminum	Aluminum	Aluminum		
Hub shell	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
	Fin Mate	ish erial	Painted Steel	Painted Aluminum		Painted Steel	Aluminum	Steel
Hub shell Axle	Fin Mate Fin	ish erial ish	Painted Steel -	Painted Aluminum Anodized	Painted Steel -	Painted Steel -	Aluminum Anodized	Steel -
Axle	Fin Mate Fin Mate	ish erial ish erial	Painted Steel - Aluminum	Painted Aluminum	Painted Steel - Aluminum	Painted Steel - Aluminum	Aluminum Anodized	Steel - Aluminum
	Fin Mate Fin Mate	ish erial ish erial ish	Painted Steel - Aluminum Painted	Painted Aluminum Anodized	Painted Steel - Aluminum Painted	Painted Steel - Aluminum Painted	Aluminum Anodized	Steel - Aluminum Painted
Axle	Fin Mate Fin Mate Fin	ish erial ish erial ish lor	Painted Steel - Aluminum Painted Black	Painted Aluminum Anodized	Painted Steel - Aluminum Painted Black	Painted Steel - Aluminum Painted Black	Aluminum Anodized	Steel - Aluminum Painted Black
Axle	Fin Mate Fin Mate Fin Col	ish erial ish erial ish lor	Painted Steel - Aluminum Painted Black Steel	Painted Aluminum Anodized	Painted Steel - Aluminum Painted Black Steel	Painted Steel - Aluminum Painted Black Steel	Aluminum Anodized	Steel Aluminum Painted Black Steel
Axle QR lever	Fin Mate Fin Mate Fin Col Mate	ish erial ish erial ish lor erial ish	Painted Steel - Aluminum Painted Black Steel Painted	Painted Aluminum Anodized	Painted Steel - Aluminum Painted Black Steel Painted	Painted Steel - Aluminum Painted Black Steel Painted	Aluminum Anodized	Steel - Aluminum Painted Black Steel Painted
Axle QR lever	Fin Mate Fin Col Mate Fin Mate Mate Mate Mate Fin Mate Fin Mate Mate Mate Mate Mate Mate Mate Mate	ish erial ish erial ish lor erial ish erial	Painted Steel - Aluminum Painted Black Steel	Painted Aluminum Anodized	Painted Steel - Aluminum Painted Black Steel	Painted Steel - Aluminum Painted Black Steel	Aluminum Anodized	Steel - Aluminum Painted Black Steel
Axle QR lever QR housing	Fin Mate Fin Col Mate Fin Mate Fin Mate Fin Fin Fin Fin Fin Fin Fin Fin Fin Fin	ish erial ish erial ish lor erial ish erial ish	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Painted Aluminum Anodized	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Aluminum Anodized	Steel - Aluminum Painted Black Steel Painted Resin & Steel
Axle QR lever QR housing	Fin Mate Fin Mate Fin Col Mate Fin Mate Fin Mate Mate Mate Mate Mate Mate	ish erial ish erial ish lor erial ish erial ish erial	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Painted Aluminum Anodized Steel	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Painted Steel - Aluminum Painted Black Steel Painted	Aluminum Anodized Steel	Steel - Aluminum Painted Black Steel Painted
Axle QR lever QR housing QR nut	Fin Mate Fin Mate Fin Col Mate Fin Mate Fin Mate Fin Mate Fin Mate	ish erial ish erial ish lor erial ish erial ish erial ish	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Painted Aluminum Anodized Steel Painted	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Aluminum Anodized Steel Painted	Steel - Aluminum Painted Black Steel Painted Resin & Steel
Axle QR lever QR housing QR nut Rotor lock ring	Fin Mate Fin Colombia Mate Fin Mate Fin Mate Fin Mate Fin Mate Fin Mate Fin JIS/O	ish erial ish erial ish lor erial ish erial ish erial ish erial ish	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Painted Aluminum Anodized Steel Painted RR-550-WUW SW	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Aluminum Anodized Steel Painted RR-550-WUW SW	Steel - Aluminum Painted Black Steel Painted Resin & Steel
Axle QR lever QR housing QR nut	Fin Mate Fin Col Mate Fin Mate Fin Mate Fin Mate Fin Mate Fin Mate Fin Mate Fin Also Fin JIS/C	ish erial ish erial ish lor erial ish erial ish erial ish erial ish erial ish FFSC	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Painted Aluminum Anodized Steel Painted RR-550-WUW SW RR-550-WUA SW	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Aluminum Anodized Steel Painted RR-550-WUW SW RR-550-WUA SW	Steel - Aluminum Painted Black Steel Painted Resin & Steel
Axle QR lever QR housing QR nut Rotor lock ring Reflector	Fin Mate Fin Colombia Mate Fin Mate Fin Mate Fin Mate Fin Mate Fin Mate Fin JIS/C	ish erial ish erial ish lor erial ish erial ish erial ish erial ish erial ish FFSC	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Painted Aluminum Anodized Steel Painted RR-550-WUW SW	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel RR-550-WUW SW RR-550-WUA SW RR317-WUA SW	Aluminum Anodized Steel Painted RR-550-WUW SW RR317-WUA SW	Steel - Aluminum Painted Black Steel Painted Resin & Steel
Axle QR lever QR housing QR nut Rotor lock ring Reflector	Fin Mate Fin Col Mate Fin Mate Fin Mate Fin Mate Fin Mate Fin Mate Fin Disserved	ish erial ish erial ish lor erial ish erial ish erial ish erial ish crial ish crial ish	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Painted Aluminum Anodized Steel Painted RR-550-WUW SW RR-550-WUA SW	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel	Aluminum Anodized Steel Painted RR-550-WUW SW RR317-WUA SW 995 g/Black	Steel - Aluminum Painted Black Steel Painted Resin & Steel RR-550-WUW SW RR317-WUA SW 1,204 g/Black
Axle QR lever QR housing QR nut Rotor lock ring Reflector Average (w/o QR, rim tape, tubeless	Fin Mate Fin Col Mate Fin Mate Fin Mate Fin Mate Fin Mate Fin Mate Fin Disserved	ish erial ish erial ish lor erial ish erial ish erial ish erial ish crial ish crial ish	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel RR-550-WUW SW RR317-WUA SW	Painted Aluminum Anodized Steel Painted RR-550-WUW SW RR317-WUA SW	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel RR-550-WUW SW RR317-WUA SW	Painted Steel - Aluminum Painted Black Steel Painted Resin & Steel RR-550-WUW SW RR-550-WUA SW RR317-WUA SW	Aluminum Anodized Steel Painted RR-550-WUW SW RR317-WUA SW	Steel - Aluminum Painted Black Steel Painted Resin & Steel

SL

SMSL

BL

ST

ST

RD

FD BR

BR

DIV

BR FC

SMCD

SMCR BB

DD

CS

MF

HB НВ

EH

FH

VH

CI-DLCK

CI-DECK

Ser	ies	CI-DECK	CI-DECK	CI-DECK	CI-DECK	CI-DECK	CI-DECK
Model no.		ID-Cl300-7R	ID-CI300-6R	ID-CI300-LC	ID-CI400	SM-CI300	SM-CI301
Compatible s	Compatible shifting lever		SL-RS34/35/36/45/47	-	-	-	-
Front speeds		-	-	-	-	-	-
Rear speeds		7	6	-	-	-	-
Shifting lever compatible rear derailleur type		Top normal	Top normal	-	-	-	-
CI-DECK cable		Stainless steel	Stainless steel	-	-	-	-
CI-DECK cable type		TX50	TX50	-	-	-	-
OPTICAL GEAR	Front	-	-	-	-	-	-
DISPLAY	Rear	7-speed	6-speed	-	-	-	-
	22.2	-	-	-	-	-	-
Clamp band diameter (mm)	25	-	-	-	-	-	-
, ,	22.2 / 25.0	-	-	-	-	Х	-
CI-DECK upper cover	Material	Resin	Resin	Resin	-	-	-
CI-DECK upper cover	Color	Painted	Painted	Painted		-	-
CL DECK body	Material	Resin	Resin	Resin	-	-	-
CI-DECK body Color		-	-	-	-	Y	-
Material		-	-	-	-	Resin	-
Clamp band 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-TX51/ ID-CI300/ID-CI400/ SC-CI300	Cowling Use with SM-CI300



TREKKING

	Page
Shifting Lever	100 SL
Brake Lever (Hydraulic disc brake)	102 BL
Brake Lever	103 BL
Shifting/Brake Lever	104 st
Rear Derailleur	105 RD
Front Derailleur	106 FD
Brake (Hydraulic disc brake)	108 BR
Brake (V-BRAKE)	109 BR
Crankset	110 FC
Front Hub (Rim/Disc Brake)	112 нв
FREEHUB (Rim/Disc Brake)	113 FH



Shifting Lever

Ser	ies	DEORE XT	DEORE XT	DEORE LX	DEORE LX	DEORE	DEORE
Mode	Model no.		SL-T8000-L	SL-T670-R	SL-T670-L	SL-T6000-R	SL-T6000-L
	1	Series color	Series color	Black	Black	Series black	Series black
Color	2	-	-	Silver	Silver	Series silver	Series silver
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	3	-	3	-	2/3
Rear speeds		10	-	10	-	10	-
Compatible rear derailleur Type		MTB 10-speed RD	-	MTB 10-speed RD	-	MTB 10-speed RD	-
I-SPEC B-type compatible		-	-			-	-
I-SPEC II compatible		-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting leve	cable adjust	х	Х	х	х	Х	Х
2 / 3 mode	converter	-	-	-	j-	<u></u>	-
Max. multiple shift	s (Main lever/ rear)	4	-	3		3	<u>-</u>
	MULTI RELEASE	х	-	-	-	-	-
Release function	INSTANT RELEASE	х	Х	-			-
	2WAY-RELEASE	х	Х	х	Х	X	Х
OPTICAL GEAR DISPLAY	with	Х	Х	Х	X	Х	Х
	with (removable)	-	-	-		-	-
	without	-	-	-	-	-	-
Multi-Bearing	construction	2	2	-	-	-	-
Chifting laver breeket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Shifting lever bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp halt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Clamp bolt	Finish	-		-	-	-	-
Main layer hady	Material	Aluminum	Aluminum	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
Main lever body	Finish	Painted	Painted	-	-	-	ı
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
Release level body	Finish		-	-	-	-	·
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
base cover	Finish	Painted	Painted	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Finish		OPTISLICK	OPTISLICK	-	-	OPTISLICK	OPTISLICK
Recommended shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average w	veight (pc)	126 g	120 g	260 g/pair	260 g/pair	-	-
No	ote						

TREKKING

Shifting Lever

Ser	ries	DEORE	DEORE	
Mode	el no.	SL-T610-R	SL-T610-L	
	1	Black	Black	
Color	2	Silver	Silver	
Shifte	Shifter type		RAPIDFIRE PLUS	
Front :	speeds	-	3	
Rear s	peeds	10	-	
Compatible rear	derailleur Type	MTB 10-speed RD	-	
I-SPEC B-type	e compatible			
I-SPEC II c	ompatible	-	-	
Shifting lever	position adjust	-	-	
Shifting lever	rotation adjust	-	-	
Shifting leve	r cable adjust	Х	Х	
2 / 3 mode	converter	-	-	
Max. multiple shift	s (Main lever/ rear)	3	-	
	MULTI RELEASE	-	-	
Release function	INSTANT RELEASE	-	-	
	2WAY-RELEASE	Х	Х	
	with	Х	Х	
OPTICAL GEAR DISPLAY	with (removable)	-	-	
	without	-	-	
Multi-Bearing	construction	-	-	
Shifting lever bracket	Material	Aluminum	Aluminum	
Shirting lever bracket	Finish	Painted	Painted	
Clamp bolt	Material	Stainless steel	Stainless steel	
Clamp boil	Finish	-	·	
Main laver hady	Material	GFRP & Steel	GFRP & Steel	
Main lever body	Finish	-	-	
Delegge lever hady	Material	GFRP & Steel	GFRP & Steel	
Release lever body	Finish	·	-	
Base cover	Material	GFRP	GFRP	
base cover	Finish	-		
Shifting lever cable	Material	Stainless steel	Stainless steel	
Similing lever cable	Finish		-	
Recommended shifti	ng lever outer casing	OT-SP41	OT-SP41	
Average v	veight (pc)		-	



BL

BL

BR

BR

FC

HR

FH

Note

Brake Lever (Hydraulic disc brake)

Series		DEORE XT	DEORE LX	DEORE	SHIMANO
Model no.		BL-T8000	BL-T675-B	BL-T6000	BL-T445
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (Finger)		3	3	3	3
	1	Series color	Black	Series black	Black
Color	2	-	Silver	Series silver	Silver
30.0 .	3	-	-	Black (SHIMANO logo)*	White
Brake ho	ose (Kit)	SM-BH90-SBM	SM-BH90-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose	joint	Straight	Straight	Straight	Straight
5.1.1	1	Black	Black	Black	Black
Brake hose color (kit)	2	-	-	-	White
J-Kit spec	(for OEM)	Х	х	Х	х
Recommended	l brake caliper	BR-M8000	BR-T675	BR-M6000	BR-M446
0	il	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel b	oleeding	Х	Х	Х	Х
Danah adiwat	Toolless	Х	x	-	-
Reach adjust	Tool	-	-	Х	х
Free strol	ke adjust	-	-	-	-
SERVOWAVE	mechanism	-	-		
	Open clamp	Х	х	X	-
Clamp band	I-SPEC II	Х	-	х	-
	I-SPEC	-	X*		-
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Steel
Clamp boil	Finish	-	-	-	Plated
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
brake lever	Finish	Anodized	Anodized	Anodized	Anodized
Mastar culinday	Material	Aluminum	Aluminum	Aluminum	Aluminum
Master cylinder	Finish	Painted	Painted	Painted	Painted
Average weight (kit for front 800 mm, w/160 mm recommend RT, w/lock ring, w/o adapter, w/2 bolts, w/ Resin pad)		108 g**	126 g**	-	-
Note		** single item weight	*I-SPEC B-type ** single item weight	J-Kit spec available * T6000 kit only	



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Brake Lever

Series		DEORE XT	DEORE LX	DEORE	DEORE	SHIMANO	SHIMANO
Model no.		BL-T780-B	BL-T670-B	BL-T610 BL-T611		BL-T4000	BL-T4010
	1	Black	Black	Black	Black	Black	Black
Color	2	Silver	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
	V-BRAKE	X*	X*	Х	X*	X	X*
	Mechanical disc brake (MTB)	X*	X*	Х	X*	Х	X*
Compatible brake	Mechanical disc brake (Road)	-	-	-	-	-	-
type	Caliper (NEW SUPER SLR)	-	-	-	-	-	-
	Caliper (SUPER SLR)	-	-	-	-	-	-
	Cantilever brake	-	-	-	-	-	-
	Roller brake	-	-	-	-		-
Recommended	V-BRAKE	SM-PM70	SM-PM70	-	SM-PM70	-	SM-PM40
POWER MODULATOR	Mechanical disc brake (MTB)	SM-PM50	SM-PM50	-	SM-PM50	-	SM-PM50
	Open clamp band	Х	Х	Х	Х	-	-
Clamp band	I-SPEC	X**	X**	X**	X**	_	-
	Diameter (mm)	22.2	22.2	22.2	22.2	22.2	22.2
Internal bi	ımper stop	Х	Х	Х	Х	х	Х
Lever siz	e (Finger)	3	3	2	3	2	3
Brake ca	ble type	T-type	T-type	T-type	T-type	T-type	T-type
Power	adjuster	-	-	-	-	-	-
SERVO	WAVE	-	-		-	-	-
Reach	adjust	Х	X	Х	х	Х	Х
Cable	adjust	Х	х	Х	Х	Х	Х
Cable ad	just type	One Hand	Two hand	Two hand	Two hand Two hand		Two hand
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Brake level	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Drawe Bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Stainless clamp bolt		Х	Х	Х	Х	Х	Х
Average weight (pair)		196.6 g	211.2 g	-	-	-	-
Note		For Trekking * POWER MODULATOR must be used for front brake **I-SPEC B-type	For Trekking * POWER MODULATOR must be used for front brake **I-SPEC B-type	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

SL

BL

BL

FD

BR

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FC

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FH

Shifting/Brake Lever

S	eries		ALIVIO	ALIVIO	ACERA	ACERA
Model no.		ST-T4000-R ST-T4000-L		ST-T3000-R	ST-T3000-L	
Color 1		Black Black		Series color	Series color	
Color		2	Silver	Silver	-	-
		r type	TAP FIRE Plus	TAP FIRE Plus	TAP FIRE Plus	TAP FIRE Plus
		speeds	-	3	-	3
		peeds	9	-	9	-
		le RD Type	MTB 9-speed RD	-	MTB 9-speed RD	-
		on adjust e adjust	- X	- X	- X	- X
		converter	-	-	-	
		nultiple	<u>-</u>	-	-	-
		in lever /	3	-	3	-
	re	ar)				
		MULTI	_	_	_	_
	1	RELEASE				
	Release function	INSTANT RELEASE	-	-	-	-
	lunction	2WAY-				
		RELEASE	-	-	-	-
Shifting lever		With	Х	X	X	Х
, , , , , , , , , , , , , , , , , , ,	Optical Gear	With	_			
	Display	(removable)	-	-	-	
		Without	-	-	-	-
		Bearing	-	-	-	1
	Main	uction Material	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin
	lever			vezili & 21661	steer a resin	steel a Kesin
	body	Finish	-	-		
	Release	Material	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin
	lever	Finish	_	_		
	body		Carl I	Carl I I I	er las	Cr. Inc.
	Shifting lever	Material	Stainless steel	Stainless steel	Steel**	Steel**
	cable	Finish	Standard	Standard	Standard	Standard
	Recomi	mended				
		ever outer	OT-SP40	OT-SP40	OT-SP40	OT-SP40
	cas	ing		V61	W	Wi
		V-BRAKE	X*	X*	X*	X*
		Mechanical disc brake	X*	X*	X*	X*
		(MTB)	^	^	^	^
		Mechanical				
		disc brake	-	-	-	-
		(Road)				
	Compat-	Caliper (SLR-EV)		-	-	-
	ible brake	Caliper				
	type	(NEW	-		-	-
		SUPER SLR)				
		Caliper			_	_
		(SUPER SLR)				
		Cantilever brake	-	-	-	-
		Roller				
Brake lever		brake			<u> </u>	
Diake level	Recom-	V-BRAKE	SM-PM40	SM-PM40	SM-PM40	SM-PM40
	mended	Mechanical				
	POWER MODULA-	disc brake	SM-PM50	SM-PM50	SM-PM50	SM-PM50
	TOR	(MTB)				
	Clamp	Open	_	_		_
	band	clamp band			-	
		umper stop	Х	X	X	Х
		e (Finger)	3	3	3	3
		ble type	T-type	T-type	T-type	T-type
		adjuster	-	-	-	-
		OWAVE adjust	- X	- X	- X	- X
		adjust	X	X	X	X
		just type	Two hand	Two hand	Two hand	Two hand
	Brake	Material	Aluminum	Aluminum	Aluminum	Aluminum
	lever	Finish	Anodized	Anodized	Anodized	Anodized
		Material	Aluminum	Aluminum	Aluminum	Aluminum
	Bracket Clamp	Finish	Painted	Painted	Painted	Painted
Bracket		Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	bolt	Finish	-	-	-	-
Avera	ge weight	•	-	-	-	-
					* POWER	* POWER
			* POWER	* POWER	MODULATOR must be	MODULATOR must
Note		MODULATOR must be used for front brake used for front brake		used for front brake	used for front bra	
					**Stainless steel	**Stainless steel

TREKKING

Rear Derailleur

Ser	ries	DEORE XT	DEORE LX	DEORE	ALIVIO	ACERA
	el no.	RD-T8000-SGS	RD-T670-A-SGS	RD-T6000-SGS	RD-T4000	RD-T3000
Pulley	/ cage	SGS	SGS	SGS	SGS	SGS
Calan	1	Series color	Silver	Series black	Black	Black
Color	2	-	Black	Series silver	Silver	Silver
Rear s	peeds	10	10	10	9	9
Compati	ble chain	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
	SHIMANO SHADOW RD	Х	-	Х	-	-
Top-Normal spring type	SHIMANO SHADOW RD+	-	-	-	-	-
	Double servo	-	Х	-	Х	Х
	Direct attachment (Conventional)	х	Х	Х	Х	X
	Direct mount compatible	X*	-	X*	-	-
Mount	Riveted adapter (Road type)	-	-	-	-	
	Riveted adapter (BMX-Track type)	-	-	-		<u> </u>
Mode co	onverter	-	-	-	-	-
Cable a	djuster	-	-	-	X	Х
Max. front	difference	22T	22T	22T	22T	22T
Total ca	apacity	47T	45T	47T	45T	45T
1	Max.	36T	34T	36T	34T	34T
Low sprocket	Min.	32T	28T	32T	28T	28T
Tan anli-st	Max.	11T	12T	11T	11T	11T
Top sprocket	Min.	11T	11T	11T	11T	11T
Fluoric coated	link bushings	4	2	3	2	1
	G pulley bearing	Sealed Bearing		-	-	-
	T pulley bearing	Sealed Bearing	-		-	-
Pulley	Teeth	11T	11T	11T	11T	11T
"""	Bolts material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
	Sunken type pulley bolt	х	х	х	Х	Х
Bunches	Material	Aluminum	-	Steel	-	-
Bracket	Finish	Painted	-	Painted	-	-
	Hollow axle	X	-	Х	-	-
B-Axle	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-		-	-	-
	Hollow axle	Х	-	Х		-
B-Axle 2	Material	Stainless steel	-	Stainless steel		-
	Finish		_	-	-	
Bug sleek lees d	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Bracket body	Finish	Painted	Painted	Painted	Painted	Painted
D Avia	Material	Steel	Steel	Steel	Steel	Steel
P-Axle	Finish	-	-	-	Painted	Painted
Dista hade	Material	Aluminum	Aluminum	GFRP	Resin	Resin
Plate body	Finish	Painted	Painted	-	Painted	Painted
Outer link	Mat <mark>erial</mark>	Aluminum	Aluminum	Aluminum	Aluminum	Steel
Outer link	Finish	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Steel	Steel	Steel	Steel
miner mik	Finish	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Aluminum	Steel	Steel	Steel	Steel
Outer plate	Finish	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Steel	Steel	Steel
inner plate	Finish	Painted	Painted	Painted	Painted	Painted
Cable fixing Bolt	Material	Stainless steel	Stainless steel	Steel	Stainless steel	Stainless steel
Cable fixing Buil	Finish	Plated	Plated	Plated	-	-
Stroke Adjusting	Material	Steel	Steel	Steel	Stainless steel	Steel
Screw	Finish	Plated	Plated	Plated	-	Plated
Average v	veight (pc)	253 g	275 g	-	-	-
Note		*Possible to attach to Direct Mount in case bracket is removed.		*Possible to attach to Direct Mount in case bracket is removed.		

SL

BL

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RD

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FH

Front Derailleur

Ser	ies		DEORE XT	DEORE XT	DEORE XT	DEORE LX	DEORE LX	DEORE LX
Mode	el no.		FD-T8000-H-3	FD-T8000-L-3	FD-T8000-L-6	FD-T670-3	FD-T670-6	FD-T671-3
	-	1	Series color	Series color	Series color	Black	Black	Black
Color	2	2	-	-	-	Silver	Silver	Silver
	reds Compatible chain TOP S Down SIDE S Clamp Band Clamp Band Clamp Band Top-Pull of Down-Pull Front Chain line (mm) Chain stay angle Top gear teeth Total capacity able Top-Mid tooth different capacity able Top-Pull of Down-Pull Front Top-Pull of Down-Pull Front Top-Pull of Down-Pull Front Top-Pull of Down-Pull Front Top-Pull of Down-Pull Front Top-Pull of Down-Pull Top-Pull of Down-Pull Front Top-Pull of Down-Pull Top-Pull of Down-Pull Front Top-Pull of Down-Pull Top-Pull of Down-	ont	3	3	3	3	3	3
Speeds	Re	ar	10	10	10	10	10	10
Compati	ble chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
	TOP S	WING	-	Х	Х	Х	Х	-
Action	Down	Swing	Х	-	-	-	-	Х
	SIDE S	WING	-	-	-	-	-	-
		28.6 mm	X* (w/ S size adapter)	X* (w/ S size adapter)	X* (w/ S size adapter)	X (w/ S size adapter)	X (w/ S size adapter)	X (w/ S size adapter)
		31.8 mm	X (w/ M size adapter)	X (w/ M size adapter)	X (w/ M size adapter)	X (w/ M size adapter)	X (w/ M size adapter)	X (w/ M size adapter)
	Ballu	34.9 mm	Х	х	X	X	Х	Х
Mount		With BB Plate	-	-	-	-		-
	E-type	Without BB Plate	-	-	-	-	-	-
	Direct	Mount	-	-	-			-
	Dual	l-Pull	Х	Х	х	х	X	х
	Top-Pull	exclusive	-	-	<u> </u>		-	-
Cable route type	Down-Pul	l exclusive	-	-	-		-	-
	Fron	t-Pull	-	-	-	-	-	-
Chain line (mm)			50	50	50	50	50	50
Chain stay angle		63-66	63-66	66-69	63-66	66-69	63-66	
Top gear teeth		48T	48T	48T	44/48T	44/48T	44/48T	
Total capacity		22T	22T	22T	22T	22T	22T	
Applicable Top-Mid tooth difference		12T	12T	12T	12T	12T	12T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		-	-	-	-	-	-	
Angled clamp	Angled clamp band design		х	х	х	х	х	Х
Link bu	Link bushings		8	2	2	2	2	8
	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Front clamp band	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Rear clamp band.	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Front clamp band Rear clamp band, base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Clamp bolt	Fin	ish	-	-	-	-	-	-
p= 1 :	Mat	erial		-	-	-	-	-
BB plate	Fin	ish		-	-	-	-	-
0.10.10.1	Mat	erial	Aluminum	Steel	Steel	Steel	Steel	Aluminum
Outer link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
James Bel	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
ci i ii	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide	Fin	ish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable C. L. J. V.	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cable fixing bolt	Fin	ish	-	-	-	-	-	-
Stroke Adjusting	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Screw	Fin	ish	-	-	-	-	-	-
Average v (Band type: L size,	veight (pc) direct type v	w/ bolt)	169 g	155 g	155 g	157 g	157 g	172 g
No	te		*S-size adapter is available only OTC package	*S-size adapter is available only OTC package	*S-size adapter is available only OTC package			



BR

Front Derailleur

Ser	ies		DEORE	DEORE	DEORE	ALIVIO	ALIVIO	ALIVIO
Mode			FD-T6000-H3	FD-T6000-L3	FD-T6000-L6	FD-T4000-TS3	FD-T4000-TS6	FD-T4000-DS3
ııı du			Series black	Series black	Series black	Series color	Series color	Series color
Color			Series silver	Series silver	Series silver	-	-	-
		ont	3	3	3	3	3	3
Speeds	Re		10	10	10	9	9	9
Compatil			HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed
	TOP S	WING	-	Х	Х	Х	Х	-
Action		Swing	Х	-	-	-	-	Х
	SIDE S		-	-	-	-	-	-
		28.6 mm	X (w/ S size adapter)	X (w/ S size adapter)	X (w/ S size adapter)	X (w/ S size adapter)	X (w/ S size adapter)	X (w/ S size adapter)
	Clamp	31.8 mm	X (w/ M size adapter)	X (w/ M size adapter)	X (w/ M size adapter)	X (w/ M size adapter)	X (w/ M size adapter)	X (w/ M size adapter)
	Band	34.9 mm	X	Х	X	X	X	X
Mount		With BB		Α	<u>-</u>	A .		
	E-type	Plate	-	-	-			-
		Without BB Plate	-	-	-		·	-
	Direct	Mount	-	-	-		-	-
	Dual	-Pull	Х	Х	х	Х	X	Х
Cable route type	Top-Pull	exclusive	-	-			-	-
cubic route type	Down-Pul	exclusive	-	-	-		-	-
	Fron	t-Pull	-	-	-	-	-	-
Chain lir	ne (mm)		50	50	50	50	50	50
Chain stay angle		63-66	63-66	66-69	63-66	66-69	63-66	
Top gear teeth		44/48T	44/48T	44/48T	44/48T	44/48T	44/48T	
Total ca	Total capacity		22T	22T	22T	22T	22T	22T
Applicable Top-Mi	d tooth diff	erence	12T	12T	12T	12T	12T	12T
Multi access ca	Multi access cable fixing bolt		-	х	Х	-	-	-
Angled stroke adjust bolt		-	-	-	-	-	-	
Angled clamp	Angled clamp band design		-	-	-	Х	X	Х
Link bu	shings		8	2	2	-	-	2
Front clamp band	Mat	erial	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
Front clamp band	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Rear clamp band,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Top gear Total cap Applicable Top-Mid Multi access cabl Angled stroke Angled clamp b Link busl	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp holt	Mat	erial	Stainless steel					
Ciamp bolt	Fin	ish		-	-	-	-	-
RR plate	Mat	erial		-	-	-	-	-
pp place	Fin	ish		-	-	-	-	-
Outer link	Mat	erial	Aluminum	Steel	Steel	Steel	Steel	Aluminum
Outer mik	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Mat	eri <mark>al</mark>	Aluminum	Aluminum	Aluminum	Steel	Steel	Aluminum
maei mik	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide	Fin	ish	Plated	Plated	Plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing bolt	Mat	erial	Stainless steel					
Cable fixing bott	Fin	ish	-	-	-	-	-	-
Stroke Adjusting	Mat	erial	Stainless steel					
Screw	Fin	ish	-	-	-	-	-	-
Average w (Band type: L size, o		w/ bolt)	-	-	-	-	-	-
No	te							

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Front Derailleur

Ser	ries		ACERA	ACERA	
Mode	el no.		FD-T3000-TS3	FD-T3000-TS6	
		1	Series color	Series color	
Color	:	2	-	-	
	Fro	nt	3	3	
Speeds	Re	ar	9	9	
Compati	ble chain		HG 9-speed	HG 9-speed	
	Compatible chain TOP SWING		Х	Х	
Action	In the second se	-	-		
	SIDE S	WING	-	-	
		28.6 mm	X (w/ S size adapter)	X (w/ S size adapter)	
		31.8 mm	X (w/ M size adapter)	X (w/ M size adapter)	
		34.9 mm	Х	Х	
Mount	Etimo		-	-	
	Е-туре		-	-	
	Rear ble chain TOP SWING Down Swing SIDE SWING 28.6 mr 31.8 mr 34.9 mr With Bl Plate Withou BB Plate Direct Mount Dual-Pull Top-Pull exclusive Down-Pull exclusive ar teeth apacity d tooth difference able fixing bolt te adjust bolt band design ushings Material Finish Material	Mount	-	-	
	Dua	l-Pull	х	х	
Cable route type	Top-Pull	exclusive	-	-	
cable route type	E-type Direct M Down-Pull Front- ine (mm) tay angle ar teeth capacity id tooth diffe able fixing both ke adjust bolt p band design ushings Mate Fini Mate Fini Mate Fini Mate Fini Mate Fini Mate Fini Mate Fini	l exclusive	-	-	
	Front-Pull line (mm) stay angle lear teeth		-	-	
Chain li	ne (mm)		50	50	
Chain st	Chain stay angle			66-69	
Top gea	Top gear teeth		44/48T	44/48T	
Total ca	Total capacity		22T	22T	
Applicable Top-Mi	Applicable Top-Mid tooth difference		12T	12T	
	Multi access cable fixing bolt		-	-	
			-	-	
		jn 	Х	Х	
Link bu					
Front clamp band			Steel	Steel	
			Painted	Painted Steel	
Rear clamp band, base bracket			Steel		
			Painted Stainless steel	Painted Stainless steel	
Clamp bolt			Juliless steel	- Stalliless steel	
		$\overline{}$		-	
BB plate				_	
			Steel	Steel	
Outer link			Painted	Painted	
		$\overline{}$	Steel	Steel	
Inner link			Painted	Painted	
	Mat	erial	Steel	Steel	
Chain guide	Fin	ish	Chrome plated	Chrome plated	
6.11. 6	Mat	erial	Stainless steel	Stainless steel	
Cable fixing bolt	Fin	ish	-	-	
Stroke Adjusting	Mat	erial	Steel	Steel	
Screw	Fin	ish	Zinc plated	Zinc plated	
Average v (Band type: L size,	veight (pc) direct type v	w/ bolt)			
No	te				

Brake (Hydraulic disc brake)

Ser	ries	DEORE LX		
Mode	el no.	BR-T675		
	1	Black		
Color	2	Silver		
	3	-		
Brake	type	Hydraulic disc brake		
Brake h	ose (kit)	SM-BH90-SS		
Hose	joint	Straight		
Duels have sales (likt)	1	Black		
Brake hose color (kit)	2	-		
J-Kit spec	(for OEM)	Х		
ICE-TECHI pad compa	NOLOGIES tible caliper	-		
	Standard 1	B01S Resin		
D. d	Standard 2	-		
Pad	Option 1	-		
	Option 2	-		
Recommende	d brake lever	BL-T675		
Recommende	d brake rotor	SM-RT54 SM-RT66		
0	il	SHIMANO Mineral		
ONE WAY	BLEEDING	Х		
	t type t with mount adapter)	Post-type		
Pis	ton	2		
Piston r	naterial	Resin		
	MONO-BODY	-		
Caliper	Material	Aluminum		
	Finish	Painted		
	Material	Stainless steel		
Caliper fixing bolt	Tool size	5mm		
	Anti loosen method	Snap ring		
Pad n	nount	Split pin		
(kit for front 800mm,	e weight w/160mm recommend adapter, w/2bolts, w/ pad)	134 g**		
No	te	** single item weight		

TREKKING

Brake (V-BRAKE)

Sei	ries	DEORE XT	DEORE LX	DEORE	SHIMANO	SHIMANO
Mode	el no.	BR-T780	BR-T670	BR-T610	BR-T4010	BR-T4000
	1	Black	Black	Black	Black	Black
Color	2	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-
Brake	type	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE
	Standard 1		\$70C	\$70C	\$70C	S65T
no.	Standard 2	M70CT4	M70CT4	M70CT4	-	-
Brake shoe	Option 1	-	M70T3	\$70T	M70R2	M65T4
	Option 2	-	-	-	-	M65T3
Cartridge s	hoe holder	х	Х	х	X (alloy)	-
Arch size (mm)		103	107	107	107	107
X type		х	Х	Х	х	Х
Spacer type	Y type	х	Х	Х	х	X
Compatible lead	Compatible lead pipe angle (deg.)		45/90/135	45/90/135	45/90/135	45/90/135
Sleeve & B	Sleeve & Bushing axle		Х	x	X	х
	Material		Aluminum	Aluminum	Aluminum	Aluminum
V-arm/Caliper	Finish	Anodized	Anodized	Anodized	Painted	Painted
	Light weight link	х	Х		·	-
Cover	Material	Aluminum	Aluminum	Aluminum		-
Cover	Finish	Anodized	Anodized	Painted	-	-
Fixing bolt length	16	х	Х	X	х	Х
(mm)	25	х	Х	X	х	х
	Material	Stainless steel	Stainless steel	Steel	Steel	Steel
Fixing bolt	Finish	Plated	Plated	Plated	Zn plated	Zn plated
	Chamfered bolt	х	Х	х	-	-
POWER M	ODULATOR	X (OPTION SM-PM70)	X (OPTION SM-PM70)	SM-PM70	SM-PM40	SM-PM40
Linear	spring	х	Х	х	Х	Х
Stainless cab	le fixing bolt	х	-	-	-	-
Average	weight	174 g	176 g	-	-	-
No	ote					



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Crankset

Ser	ies	DEORE XT	DEORE LX	DEORE	SHIMANO	SHIMANO	ALIVIO
Mode		FC-T8000	FC-T671	FC-T6010	FC-T551	FC-T521	FC-T4060
	1	Series color	Black	Series black	Black	Black	Black
Color	2	-	Silver	Series silver	Silver	Silver	Silver
Rear s	peeds	10	10	10	10	10	9
Compatil		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG for 9-speed
Chain lii	ne (mm)	50	50	50	50	50	50
P.C.D.	(mm)	104/64	104/64	104/64	104/64	104/64	104/64
Gear	arms	4arm	4arm	4arm	4arm	4arm	4arm
Chain ring o	ombination	48-36-26T	48-36-26T	48-36-26T	48-36-26T	48-36-26T	48-36-26T
Chain ring C	ombination	40-30-201	44-32-24T	40-30-201	44-32-24T	44-32-24T	44-32-22T
Q-facto	r (mm)	176	181.7	181.5	181.1	185.8	181.7
	165.0	-	-	-	-	-	X
	167.5	-	-	-	-	-	-
Crank arm length	170.0	X	X	Х	X	X	X
(mm)	172.5	-	-	-	-	-	-
	175.0	X	X	Х	X	Х	X
	177.5	-	-	-	-	-	-
	180.0	-	-	-	-	-	-
	With bash guard	-	-	-		-	-
Optional chain guard	With chain guard	Х	X	Х	X	Х	X
	Without chain / bash guard	-	X	-	X	X	X
	With	-	-	-	-	X	
Crank arm fixing bolt	Without	X	X	Х	х	-	Х
HOLLOV		X	X	X		-	-
2-PIECE C		-	-	-	X	-	Х
HOLLOWTEG		-	-	-	-	Х	-
OCTA		-	-		-	Х	-
HOLLO		-	-		-	-	-
	Outboard	Х	Х	Х	Х	-	Х
Compatible BB type	OCTALINK	-	-	A	-	Х	-
	Square	-		-	-	-	<u>.</u>
	Threaded (normal)	BB-MT800	SM-BB70	SM-BB52	SM-BB52	BB-ES300	SM-BB52
	Threaded (E-type)	-	-	-	-	-	-
Recommended BB	Threaded (chain case)	-	SM-BB70	SM-BB52	SM-BB52	BB-ES300-AK	SM-BB52
	Pressfit	BB-MT800-PA	-	BB-MT500-PA	-	-	-
	Threaded (normal)	-	-	-	-	121-AK	-
Axle length of BB-UN	Threaded (E-type)	-	-	-	-	-	-
, 25 (mm)	Threaded (chain case)	-	-	-	-	121-AK	-
Three ded DD shell	68mm	X	X	X	X	Х	Χ
/ ES (mm) Threaded BB shell width	73mm	X	Х	X	X	Х	X
	83mm	-	-	-	-	-	-
Chain case	compatible	-	X	X	Х	Х	X
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	-	Steel
ļ	Finish	Plated	Plated	Plated	Plated	-	Plated
Spider arm	Material	Aluminum	-	Aluminum	-	Aluminum	-
	Finish	Painted	-	Painted	-	Painted	-
Spider arm cover	Material	-	-	-	-	-	-
<u> </u>	Finish Material	- Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum	- Stool
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
<u> </u>	Finish	Anodized	Anodized Aluminum	Anodized	Anodized	Anodized	Painted
Middle ring	Material	Aluminum	(48-36-26T) Steel +GF composite (44-32-24T)	Steel	Aluminum (48-36-26T) Steel +GF composite (44-32-24T)	Steel (48-36-26T) Steel +GF composite (44-32-24T)	Steel
	Finish	Plated	Plated	Painted	Plated	Painted	Painted
Innov vina	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
Inner ring	Finish	Plated	Painted	Painted	Plated	Painted	Painted
Outer / middle ring	Material	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
fixing bolt	Finish	Anodized	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain g		-	-	X	X	Х	X
Crank fixing	bolt included	-	-	Х	-	Х	X
Average weight	(175mm, w/o BB)	868 g (48-36-26T)	992 g (48-36-26T) 958 g (44-32-24T)	-	-	-	-
No	te		4 arm integrated crank arm w/o CG spec available				

TREKKING

Crankset

Co.	ries	CHIMANO	SHIMANO		
	el no.	SHIMANO FC-T4010	FC-T3010		
mou	1	Black	Black		
Color	2	Silver	Silver		
Rears	peeds	9	9		
	ble chain	HG for 9-speed	HG for 9-speed		
	ne (mm)	50	50		
	P.C.D. (mm) 104/64 104/64				
	arms	4arm	4arm		
		48-36-26T	48-36-26T		
Chain ring o	combination	44-32-22T	44-32-22T		
Q-facto	or (mm)	187.8	187.3		
	165.0	Х	Х		
	167.5	-	-		
	170.0	Х	Х		
Crank arm length (mm)	172.5	-	-		
(mm)	175.0	Х	Х		
	177.5	-	-		
	180.0	-	-		
	With bash guard	-	-		
		X	Х		
Optional chain guard					
	guard	X	Х		
	With	Х	Х		
Crank arm fixing bolt	Without	-	-		
HOLLOV	With bash guard With chain guard Without chain / bash guard With Without Without VTECH II RANKSET		-		
		-	_		
		-	-		
		X	-		
110220		_			
Compatible RR type		Y			
Compatible BB type		٨	X		
	·		BB-UN26		
			- BB-UN20		
Recommended BB					
	` ′	BB-E3300-AK	BB-UN26-K		
		435	-		
Axle length of BB-UN		126	LL123		
/ ES (mm)		-	11 122 14		
			LL123-K		
Threaded BB shell			X		
width	73mm	X	X		
	Width 83mm -		-		
Chain case	compatible	Х	Х		
Crank arm	Material	Aluminum	Aluminum		
	Finish	Painted	Painted		
Crank axle	Material	-	-		
-	Finish	-	-		
Spider arm	Material	Aluminum	-		
.,	Finish	Painted	-		
Spider arm cover	Material	-	-		
	Finish	-	-		
Outer ring	Material	Steel	Steel		
- 215y	Finish	Painted	Painted		
Middle ring	Material	Steel	Steel		
image illig	Finish	Painted	Painted		
Inner ring	Material	Steel	Steel		
Inner ring	Finish	Painted	Painted		
Outer / middle ring	Material	Stainless steel	Stainless steel		
fixing bolt	Finish	-	-		
	Material	Stainless steel	Stainless steel		
Inner ring fixing bolt	Finish	-	-		
Stainless chain g	guard fixing bolt	Х	- (48-36-26T) X (44-32-22T)		
Crank fiving	bolt included	Х	X (44-32-221)		
	(175mm, w/o BB)	-	-		
	ote				
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Front Hub (Rim/Disc Brake)

Ser	ies		DEORE XT	DEORE LX	DEORE LX	DEORE	SHIMANO	SHIMANO
Mode	el no.		HB-T780	НВ-Т670	HB-T675	HB-T610	HB-T4000	HB-T3000
	1	l	Black	Black	Black	Black	Black	Black
Color	2	2	Silver	Silver	Silver	Silver	Silver	Silver
Brake	Туре		Rim brake	Rim brake	CENTER LOCK disc brake	Rim brake	Rim brake	Rim brake
O.L.D.	(mm)		100	100	100	100	100	100
	28	вн	-	-	-	-	-	-
Spoke hole	32	:H	Х	Х	Х	Х	Х	Х
	36	ін	Х	Х	Х	Х	Х	Х
External serration	with		-	-	-	-	-	-
rotor lock ring	with	out	-	-	-	-	-	-
CENTER LOCK mo	unt cover o	ption	-	-	-	-	-	-
	Fixing r	nethod	QR	QR	QR	QR	QR	QR
	QR	129	-	-	-	4	-	-
leng	skewer length (mm)	133	Х	Х	х	х	х	х
Axie	Thru Axle	100 x 15	-	-	-	-	-	-
	Length x Inner	110 x 15	-	-	-	-	-	-
	Diameter (mm)	110 x 20	-	-	-		-	-
Flange distance (mm)		71.6	71.6	60.2	71.6	71.6	71.6	
Offset	Offset (mm)		0	0	5.3	0	0	0
P.C.D. Left /	Right (mm)		40	38	44	40/40	38/38	38/38
Flange diar	Flange diameter (mm)		50.4	48.4	52.8/51.4 (L/R)	48.4	48.4	48.4
Seal		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact	
Internal grease sleeve		Х	Х	-	-	-	-	
	Stainle	ss ball	-	-	-	-	-	-
Bearing	Cu	ıp	-	-	-	-	-	-
	Co	ne	CBN	CBN	CBN	CBN	-	-
Hub shell	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
311311	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Mate	erial	Aluminum	Steel	Steel	Steel	Steel	Steel
-	Fin	ish	Anodized	-	-	-	-	-
	Mate		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
QR lever	Fin	ish	Anodized	Anodized	Anodized	Painted	Barrel	Plated
	Col	lor	Black	Black (Black) Silver (Silver)	Black (Black) Silver (Silver)	Black	Black	Black
QR housing	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Fin	ish	Anodized	Anodized	Anodized	Painted	Plated	Plated
QR nut	Mate	erial	Resin & steel	Resin & steel	Resin & steel	Resin & steel	Resin & steel	Resin & steel
,	Fin	ish	-	-	-	-	-	-
Rotor lock ring		eri <mark>al</mark>	-	-	-	-	-	-
	Fin	ish	-	-	-	-	-	-
Average	weight		153 g	161 g	192 g	-	-	-
No	ote							

FREEHUB (Rim/Disc Brake)

Serie	es		DEORE XT	DEORE LX	DEORE LX	DEORE	SHIMANO	SHIMANO
Model			FH-T780	FH-T670	FH-T675	FH-T610	FH-T4000	FH-T3000
	1	<u> </u>	Black	Black	Black	Black	Black	Black
Color			Silver	Silver	Silver	Silver	Silver	Silver
Brake 1	Туре		Rim	Rim	CENTER LOCK disc	Rim	Rim	Rim brake
Spee	ds		8-10 speed	8-10 speed	8-10 speed	8-10 speed	8/9 speed	8/9 speed
O.L.D. ((mm)		135	135	135	135	135	135
	28	ВН	-	-	-	-	-	-
Spoke hole	32	2H	Х	Х	х	Х	Х	Х
	36H with		Х	Х	Х	Х	Х	х
External serration	with		-	-	-	-	-	-
rotor lock ring	with	nout	-	-	-	-	-	-
Internal serration	wi	th	-	-	-	-	_	-
rotor lock ring	with		-	-	-	-	-	-
CENTER LOCK mou			-	-	-		-	-
	Fixing r		QR	QR	QR	QR	QR	QR
	QR	166	-	-	- V	-	-	Х
	skewer length	168 170	X -	X	X	X	X -	- X
	(mm)	173	X	X	X	X	X	-
Axle		135 x 10	-	-	-	-	-	
1	Thru Axle Length x Inner	135 x 12	-	-		-	-	-
		142 x 12	-	-		-	-	-
	Diameter (mm)	148 x 12	-	-	-	-	-	-
	()	150 x 12	-	-	-	-	-	-
Flange distance (mm)		57.4	59.2	57.4	59.2	59.2	59.2	
Offset ((mm)		6.6	7.6	6.6	7.8	7.6	7.5
P.C.D. Left/Right (mm)		44/45	45	44/45	44/45	45/45	45/45	
Flange diameter Left/Right (mm)		52.8/53.8	53.8	52.8/53.8	53.8	53.8	53.8	
Quick enga	Quick engagement		X (36points/360°)	-	-	-	-	-
Seal	Hu	ıb	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact
	FREEHU	IB body	Contact	Contact	Contact	Contact	Contact	-
Internal grea	-		Х	Х	X	X	X	-
	Stainle			-	-	-	-	-
Bearing		no	CBN	CBN	- CBN	- CRN	- CBN	-
		ne erial	Steel	Steel	Steel	CBN Steel	Steel	- Steel
FREEHUB body	Fin		-	-	-	-	-	
	Mate		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Fin		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Mate	erial	Aluminum	Steel	Steel	Steel	Steel	Steel
Axle	Fin	ish	Anodized	-	-	-	-	-
	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
QR lever	Fin	ish	Anodized	Anodized	Anodized	Painted	Barrel	Plated
	Co	lor	Black	Black (Black) Sliver (Silver)	Black (Black) Sliver (Silver)	Black	Black	Black
	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
QR housing	Fin	ish	Anodized	Anodized	Anodized	Painted	Plated	Plated
OP	Mate	erial	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin + Steel	Steel + Resin
QR nut	Fin	ish	-	-	-	-	-	-
Rotor lock ring	Mate	erial	-	-	-	-	-	-
Notor lock ring	Fin	ish	-	-	-	-	-	-
Average v *w/o axle, QR		na	338 g	365 g	369 g	-	-	-
Not		שי						
1400	-							

SL

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ND

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FH.



CITY TOURING/COMFORT

	Page	
Internal Geared Hub	116	SG
Chain Tensioner	120	СТ
Cassette Sprocket	120	CS
Shifting Lever	121	SL
REVOSHIFT shifter integrated with brake lever	122	SB
Brake Lever (Hydraulic disc brake)	123	BL
Brake Lever	123	BL
Brake (Hydraulic disc brake)	123	BR
Brake (Roller Brake)	124	BR
Crankset	125	FC
Front Hub (Roller Brake)	126	НВ
FREEHUB (Roller Brake)	127	FH
FREEHUB (Band Brake)	128	FH
Head Parts	128	НР
Electric Wire	129	EW

Sei	ries	ALFINE	ALFINE	NEXUS	NEXUS	NEXUS	NEXUS
Functio	n name	INTER-11	INTER-8	INTER-8	INTER-8	INTER-8	INTER-8
Mode	el no.	SG-S7001-11	SG-S7001-8	SG-C6011-8R	SG-C6011-8V	SG-C6001-8R	SG-C6001-8V
	1	Silver	Silver	Silver	Silver	Silver	Silver
Color	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
	Mount Type	CENTER LOCK disc brake	CENTER LOCK disc brake	INTER-M	V-BRAKE	INTER-M	V-BRAKE
Brake Type	Recommended Model	-	BR-5700	BR-C6000 BR-C3010 BR-C3000	-	BR-C6000 BR-C3010 BR-C3000	-
Spe	eds	11-speed	8-speed	8-speed	8-speed	8-speed	8-speed
	Total	409%	307%	307%	307%	307%	307%
	1	0.527	0.527	0.527	0.527	0.527	0.527
	2	0.681	0.644	0.644	0.644	0.644	0.644
	3	0.770	0.748	0.748	0.748	0.748	0.748
	4	0.878	0.851	0.851	0.851	0.851	0.851
6.000	5	0.995	1	1	1	1	1
Gear ratio	6	1.134	1.223	1.223	1.223	1,223	1.223
	7	1.292	1.419	1.419	1.419	1.419	1.419
	8	1.462	1.615	1.615	1.615	1.615	1.615
	9	1.667	-	-	-	-	-
	10	1.888	_	-	-	-	-
	11	2.153	-	-	-	-	-
Shifting structure		Top Normal	Top Normal	Low Normal	Low Normal	Low Normal	Low Normal
Silent	Silent clutch		X	X	Х	Х	Х
Gear change sup	pport mechanism	Х	Х	Х	Х	Х	Х
Shifting POWE	Shifting POWER MODULATOR		Х	Х	Х	Х	Х
Driving efficiency		HIGH	High	High	High	Standard	Standard
w/ Left ha	w/ Left hand dust cap		-	-	Х	-	Х
O.L.D.	. (mm)	135	135	132	132	132	132
Spok	e size	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14
	28H	-		-	-	-	-
	32H	Х	Х	Х	Х	Х	Х
Spoke hole	36H	X	X	Х	Х	Х	Х
	Others	-	-	40H	-	40H	-
	182		-	-	-	-	-
	184		-	Х	Х	Х	Х
Axle length (mm)	187	х	Х	-	-	-	-
	193	-	-	-	-	-	-
	Others	-	-	-	-	203	203
Flange dis	tance (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
el	Right	3.2	3.2	3.2	3.2	3.2	3.2
Flange width (mm)	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offse	t (mm)	3.15	3.15	2.7	2.7	2.7	2.7
P.C.D Left /	Right. (mm)	92.6	92.6	92.6	92.6	92.6	92.6
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Average	u e weight	1,665 g	1,670 g	1,660 g	1,685 g	1,710 g	1,735 g
	ote	-	-	-	-	-	-
1							



Sei	ries	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
	Function name		INTER-8	INTER-8	INTER-7	INTER-7	INTER-7
Mode		INTER-8 SG-C6001-8C	SG-C6001-8D	SG-C6001-8CD	SG-C3001-7R	SG-C3001-7C	SG-C3001-7C-DX
	1	Silver	Silver	Silver	Silver	Silver	Silver
Color	2	Black	Black	Black	Black	Black	Black
33.5.	3	-	-	-	-	-	-
Brake Type	Mount Type	Coaster Brake	CENTER LOCK disc brake	Coaster and Special disc brake mount for SM-RTC60	INTER-M	Coaster	Coaster
	Recommended Model	-	-	-	BR-C3010 BR-C3000	-	-
Spe	eds	8-speed	8-speed	8-speed	7-speed	7-speed	7-speed
	Total	307%	307%	307%	244%	244%	244%
	1	0.527	0.527	0.527	0.632	0.632	0.632
	2	0.644	0.644	0.644	0.741	0.741	0.741
	3	0.748	0.748	0.748	0.843	0.843	0.843
	4	0.851	0.851	0.851	0.989	0.989	0.989
	5	1	1	1	1.145	1.145	1.145
Gear ratio	6	1.223	1.223	1.223	1.335	1.335	1.335
	7	1.419	1.419	1.419	1.545	1.545	1.545
	8	1.615	1.615	1.615		-	-
	9	-	-		-	-	-
	10	-	_		-	-	-
	11	-	-		-	-	-
Shifting	structure	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal
	Silent clutch		X	х	-	-	-
Gear change sup		X	X	Х	-	-	-
	Shifting POWER MODULATOR		Х	Х	-	-	-
Driving efficiency		X Standard	Standard	Standard	Standard	Standard	Standard
w/ Left hand dust cap		-	-	-	-	-	-
	· · · · · · · · · · · · · · · · · · ·		135	135	130	127	127
		132.3 #13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14
Sport	28H	-	-	-	-	-	-
	32H	х	Х	X	Х	Х	Х
Spoke hole	36H	Х	X	X	X	X	X
	Others	-	-	-	-	-	<u>-</u>
w/ Left hand O.L.D. (Spoke Spoke hole	182		-	-	X	-	-
	184	х	-	-	-	-	X
Axle length (mm)	187		X	X	-	-	-
	193	-	-	-	-	-	-
	Others	-	-	-	201	175.5	175.5
Flange dis		58.3	57.3	58.3	54.6	56.2	56.2
	Flange distance (mm) Flange diameter (mm)		105.2	105.2	99.6	92.5	92.5
50 ulul			3.2	3.2	3.2	2.3	2.3
Elango width (mr.)	Right	3.2	J.E	3.2	3.2	2.7	2.7
Flange width (mm)	Right Left	3.2	3 2		J.L		£./
_	Left	3.2 2.55	3.2		3 85		4.6
Offset	Left t (mm)	2.55	3.4	2.7	3.85	4.6	4.6 83.5
Offset	Left t (mm) Right. (mm)	2.55 92.6	3.4 92.6	2.7 92.6	87	4.6 83.5	83.5
Offset	Left t (mm) Right. (mm) Material	2.55 92.6 Aluminum	3.4 92.6 Aluminum	2.7 92.6 Aluminum	87 Aluminum	4.6 83.5 Steel	83.5 Steel
Offset P.C.D Left /	Left t (mm) Right. (mm)	2.55 92.6	3.4 92.6	2.7 92.6	87	4.6 83.5	83.5
Offset P.C.D Left / Hub shell	Left t (mm) Right. (mm) Material	2.55 92.6 Aluminum	3.4 92.6 Aluminum	2.7 92.6 Aluminum	87 Aluminum	4.6 83.5 Steel	83.5 Steel Plated+

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Ser	ies	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Functio	n name	INTER-7	INTER-5	INTER-5	INTER-5	INTER-5	INTER-3
Mode	el no.	SG-C3001-7D	SG-5R30	SG-5R30-VS	SG-5R35	SG-5R35-VS	SG-3R75-B
	1	Silver	Silver	Silver	Silver	Silver	Silver
Color	2	Black	-	-	Black	Black	-
	3	-	-	-	-	-	-
	Mount Type	CENTER LOCK disc brake	INTER-M	V-BRAKE	INTER-M	V-BRAKE	INTER-M
Brake Type	Recommended Model	-	BR-C3010 BR-C3000 BR-IM31 (specifica- tion for Japan)	-	BR-C3010 BR-C3000 BR-IM31 (specifica- tion for Japan)	-	BR-C3010 BR-C3000 BR-IM31 (specifica- tion for Japan)
Spe	eds	7-speed	5-speed	5-speed	5-speed	5-speed	3-speed
	Total	244%	206%	206%	206%	206%	158%
	1	0.632	0.750	0.750	0.750	0.750	0.632
	2	0.741	1.001	1.001	1.001	1.001	0.741
	3	0.843	1.159	1.159	1.159	1.159	1.000
	4	0.989	1.335	1.335	1.335	1.335	-
Gear ratio	5	1.145	1.545	1.545	1.545	1.545	-
Gear ratio	6	1.335	-	-	-		-
	7	1.545	-	-		-	-
	8	-	-	-		-	-
	9	-	-	-	-	-	-
	10	-	-	-	-	-	-
	11	-	-	-	-	-	-
Shifting :	structure	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal
Silent	clutch	-	Х	х	х	Х	Х
Gear change sup	port mechanism	-	-	-	-	-	-
Shifting POWE	R MODULATOR	-	-	-	-	-	-
Driving e	fficiency	Standard	Standard	Standard	Standard	Standard	HIGH
w/ Left har	nd dust cap	-	-	Х	-	Х	-
O.L.D.	(mm)	135	132	132	132	132	122
Spok	e size	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14
	28H		-	-	-	-	-
	32H	Х	Х	Х	Х	Х	-
Spoke hole	36H	Х	х	Х	Х	Х	Х
	Others		-	-	-	-	-
	182		-	-	-	-	-
	184		Х	Х	Х	Х	-
Axle length (mm)	187	х	-	-	-	-	-
	193	-	-	-	-	-	Х
	Others	-	210/215	210	-	-	174/198/200
Flange dist	ance (mm)	54.6	54.6	54.6	54.6	54.6	51.1
Flange diar	neter (mm)	99.6	86	86	88.6	86	92.5
et	Right	3.2	2.3	2.3	3.4	2.3	2.3
Flange width (mm)	Left	3.2	2.5	2.5	3.6	2.5	2.7
Offset	(mm)	2.5	0.3	0.3	0.3	0.3	3.6
P.C.D Left /	Right. (mm)	87	76	76	76	76	83.5
	Material	Aluminum	Steel	Steel	Aluminum	Aluminum	Steel
Hub shell	Finish	Painted	Plated	Plated	Painted	Painted	Plated
Average	weight	1,470 g	1,305 g	1,330 g	1,230 g	1,255 g	1,315 g
No	te	-	*Japan market only	*Japan market only	*Japan market only	*Japan market only	-
1			. ,				



Sei	ries	NEXUS	NEXUS	NEXUS	NEXUS
	on name	INTER-3	INTER-3	INTER-3	INTER-3
	el no.	SG-3R40	SG-3R42	SG-3C41	SG-3D55
Mod	1	Silver	Silver	Silver	Silver
Color	2	-	-	-	Black
Color	3	-	-	-	- Black
	Mount Type	INTER-M	INTER-M	Coaster	CENTER LOCK disc
Brake Type	Recommended Model	BR-C3010 BR-C3000 BR-IM31 (specifica- tion for Japan)	BR-C3010 BR-C3000 BR-IM31 (specifica- tion for Japan)	-	-
Spe	eeds	3-speed	3-speed	3-speed	3-speed
	Total	186%	186%	186%	186%
	1	0.733	0.733	0.733	0.733
	2	1.000	1.000	1.000	1.000
	3	1.360	1.360	1.360	1.360
	4	-	-	-	-
	5	-	-	-	-
Gear ratio	6	-	-	-	
	7	-	-	_	
	8	-	-	-	
	9	_	-	_	-
	10	-	-		-
	11	-	_		-
Shifting	structure	Low Normal	Low Normal	Low Normal	Low Normal
	clutch	-	-	-	X
	oport mechanism	X	х	х	X
	R MODULATOR	X	X	X	X
	efficiency	Standard	Standard	Standard	Standard
	nd dust cap	120/127/130	-	120/127	-
	. (mm)	120.4/126.8	120	120/127.4	135
	e size	#13 / #14	#13 / #14	#13 / #14	#13 / #14
эрок	28H	x	X	X	-
	32H	X	^	^	X
Spoke hole			X	X	
	36H	X	-		X -
	Others	· V		-	
	182	X	X -	-	-
Axle length (mm)	184	*	-	-	-
Ave lendin (IIIII)		-	-	-	X
	193 Others	170/177/189/192	192	168/175/178	-
Elango dis	tance (mm)				
	meter (mm)	53 84	53 70	57.5 67.5	53.5
Flange dia	1			67.5	77.6
Flange width (mm)	Right	2.3	3.0	2.3	3.2
Left		2.3	3.0	2.3	3.2
Offset (mm)		0.8	0.8	1.2	1.67
P.C.D Left /	Right. (mm)	74	60	59	65
Hub shell	Material	Steel	Steel	Steel	Aluminum
	Finish	Plated	Plated	Plated	Painted
Average	e weight	885 g	872 g	1,120 g	945 g
No.	ote	-	Specification for Japan market	-	-

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Chain Tensioner

Ser	Series		ALFINE
Mode	el no.	CT-S500	CT-S510
	1	Silver	-
Color	2	Black	-
	3	-	Silver&Black
Spe	eds	Single	Single
Compatible chain		CN-HG93 CN-HG71 CN-HG53	CN-HG73 (CS-S500) CN-HG53 (CS-S500) CN-HG71 (SM-GEAR)
Compatible cas	Compatible cassette sprocket		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)
Droj	oout	Vertical drop end type	Vertical drop end type
Direct at	tachment	-	-
Struc	cture	Double pulley	Single pulley
Tensioner arm	Material	Aluminum	Aluminum
iensioner arm	Finish	Painted	Painted
No	te		



Ser	ries	ALFINE
Mode	el no.	CS-S500
Chain Guard	with	Х
Chain Guard	without	Х
	14T	-
	16T	
	17T	-
	18T	X (w/ and w/o guard)
Gear teeth	19T	-
Gear teetn	20Т	X (w/ and w/o guard)
	21T	-
	22T	-
	23T	-
	27T	-
Gear thick	ness (mm)	2.0
	Super Narrow HG-X 10-speed	Х
Recommended chain	Super Narrow HG 9-speed	Х
	HG 8-speed (1/2"x3/32")	-
	1/2"x1/8"	-
_	Material	Steel
Gear	Finish	Chrome plated
No	ote	



Shifting Lever

Ser	ies	ALFINE	ALFINE	ALFINE	NEXUS	NEXUS	NEXUS
Mode	el no.	SL-S700	SL-S7000-8	SL-S503	SL-7550	SL-C6000-8	SL-C3000-7
	1	Silver	Silver	Silver	Silver	Silver	Silver
Color	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT
Top-N	ormal	Х	Х	-	-	-	-
Spe	eds	11	8	8	7	8	7
Compatible interna	al geared hub type	SG-S7001-11	SG-S7000-8, SG-S7001-8	SG-S501, NEXUS INTER-8	NEXUS INTER-7	NEXUS INTER-8	NEXUS INTER-7
I-SPEC cor	npatiable	-	-		-	-	-
Shifting lever		-	-		-	-	-
Shifting lever		Х	X	X	X	X	Х
Max. mult	iple shifts	2	1	1	1	7	6
	MULTI RELEASE	X	-	-	-	-	-
Release function	INSTANT RELEASE	Х	-	-	-	-	-
	2WAY-RELEASE	Х	X	Х	Х	-	-
OPTICAL GE	AR DISPLAY	Above handlebar	Above handlebar	Above handlebar	Window	Window	Window
LED Position	ning Light	-	-	-	-	-	-
Multi-Bearing	Construction	-	-	-	-		-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Resin	Resin
Siliting lever bracket	Finish	Painted	Painted	Painted	Painted	Resin	Resin
Main lever body	Material	Steel & Resin	Steel & Resin	Steel & Resin	Resin & Steel	-	-
Main lever body	Finish	-	-	-	-	-	-
Release lever body	Material	Steel & Resin	Steel & Resin	Steel & Resin	Resin & Steel	-	-
Release level body	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
base cover	Finish	-	-		-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Shirting lever cable	Finish	-	-	-		-	-
Recommended Shiftir	ng lever Outer Casing	OT-SP41	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Stainless o	lamp bolt	-	-	-	-	-	-
Brake lever	integrated	-	-	-	-	-	-
Brake Le	ver Size	-	-	-	-	-	-
Left Hand E	Brake Lever	-	-	-	-	-	-
Clamping Dia	ameter (mm)	22.2	22.2	22.2	22.2	22.2	22.2
No	te						

Ser	ies	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Mode	l no.	SL-5S50	SL-5S30	SL-5S30-A	SL-3S42E	SL-3S41E	SL-3S35E
	1	Silver	Silver	Silver	-	-	-
Color	2	Black	Black	Black	Black	Black	Black
	3	-	White	White	-	-	-
Shifter	r type	RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Top-No	ormal	-		-	-	-	-
Spe		5	5	5	3	3	3
Compatible interna	l geared hub type	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3
I-SPEC con	npatiable	-	-	-	-	-	-
Shifting lever p	osition adjust	-	-	-	-	-	-
Shifting lever	cable adjust	Х	X	X	-	-	-
Max. mult		1	4	4	2	2	2
	MULTI RELEASE	-	-	-	-	-	-
Release function	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	-	-	-	-	-	-
OPTICAL GE	AR DISPLAY	Window	Window	Window	Window	Window	Dial
LED Positio	ning Light	-	-	-	-	-	-
Multi-Bearing	Construction	-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Resin	Resin	Resin	Resin	Aluminum
Siliting level blacket	Finish	Painted	Resin	Resin	Resin	Resin	Painted
Main lever body	Material	-	-	-	-	-	-
Walli level body	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	-	-	-
Release level body	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
buse cover	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Recommended Shiftin		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Stainless c	<u> </u>	-	-	-	-	-	-
Brake lever		-	-	-	-	-	-
Brake Le		-	-	-	-	-	-
Left Hand B		-	-	-	-	-	-
Clamping Dia		22.2	22.2	22.2	22.2	22.2	22.2
No	te						

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Shifting Lever

Ser	ies	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Mode	el no.	SL-3S58 J	SL-3S42 J	SL-3S43 J	SL-3S90	SL-3S91J
	1	Silver	Silver	Silver	Gray	-
Color	2	Black	Black	Black	Black	-
	3	White	-	White	-	White
Shifte	r type	REVOSHIFT	REVOSHIFT	REVOSHIFT	Piano-touch	Piano-touch
Top-N	ormal	-	-	-	-	-
Spe	eds	3	3	3	3	3
Compatible interna	al geared hub type	NEXUS INTER-3				
I-SPEC cor	npatiable	-	-	-	-	-
Shifting lever	oosition adjust	-	-	-	-	-
Shifting lever	cable adjust	-	-	-	-	-
Max. mult	iple shifts	2	2	2	2	2
	MULTI RELEASE	-	-	-	-	-
Release function	INSTANT RELEASE	-	-	-	-	-
	2WAY-RELEASE	-	-	-	-	-
OPTICAL GEAR DISPLAY		Window	Window	Window	Dial	Dial
LED Positio	ning Light	-	-	-	-	-
Multi-Bearing Construction		-	-	-	-	-
Chifein a lavon han alvat	Material	Resin	Resin	Resin	Steel	Steel
Shifting lever bracket	Finish	Resin	Resin	Resin	Painted	Painted
Main lavan hadir	Material	-	-	-	Resin & Steel	Resin & Steel
Main lever body	Finish	-	-	-	-	-
Release lever body	Material	-	-	-	Resin & Steel	Resin & Steel
Release lever body	Finish	-	-	-	-	-
Page gover	Material	Resin	Resin	Resin	Resin	Resin
Base cover	Finish	-	-	-		_
Chifting lawar cable	Material	Steel	Steel	Steel	Steel	Steel
Shifting lever cable	Finish	Standard	Standard	Standard	Standard	Standard
Recommended Shiftir	ng lever Outer Casing	OT-SP40	OT-SP40	Normal	Normal	Normal
Stainless o	lamp bolt	-	-			-
Brake lever	integrated	-	_		-	-
Brake Le	ver Size	-	-	-	-	-
Left Hand E	Brake Lever	-	-	-	-	-
Clamping Dia	ameter (mm)	22.2	22.2	22.2	22.2	22.2
No	te	Specification for Japan market	Specification for Japan market	Specification for Japan market	Specification for Japan market	Specification for Japan market

REVOSHIFT shifter integrated with brake lever

Ser	ies	NEXUS	NEXUS	
Mode		SB-C6000-8	SB-C3000-7	
	1	Silver	Silver	
Color	2	Black	Black	
	3			
Shifte	r type	REVOSHIFT	REVOSHIFT	
Top-Normal		-	-	
Spe	eds	8	7	
Compatiable intern	al geared hub type	NEXUS INTER-8	NEXUS INTER-7	
I-SPEC cor	npatiable	-	-	
Shifting lever	oosition adjust		-	
Shifting lever	r cable adjust	Х	X	
Max. mult	iple shifts	7	6	
	MULTI RELEASE	-	-	
Release function	INSTANT RELEASE	-	-	
	2WAY-RELEASE	-	-	
OPTICAL GEAR DISPLAY		Window	Window	
LED Position	oning Light	-	-	
Multi-Bearing	Construction	-	-	
Shifting lever bracket	Material	Aluminum	Aluminum	
Shirting lever bracket	Finish	Painted	Painted	
Main lever body	Material	•	-	
Main level body	Finish	-	-	
Release lever body	Material	-	-	
Release level body	Finish	-	-	
Base cover	Material	Resin	Resin	
Dase cover	Finish	-	-	
Shifting lever cable	Material	OPTISLICK	OPTISLICK	
Jilliting lever cable	Finish	-	-	
Recommended shiftir		SP41 Sealed	SP41 Sealed	
Stainless o		-	-	
Brake lever		X	X	
Brake Le		4-Finger	4-Finger	
Left Hand E		BL-C6010	BL-C6010	
Clamping Dia	` '	22.2	22.2	
No	te			



Brake Lever (Hydraulic disc brake)

Ser	ries	ALFINE	
Mode	el no.	BL-S700-B	
Brake	Brake type		
	e (Finger)	3	
	1	Silver	
Color	2	Black	
	3	-	
Brake ho	ose (Kit)	SM-BH90-SB	
Hose	joint	Straight	
Buelos basas salau (liit)	1	Black	
Brake hose color (kit)	2	-	
Recommended	Recommended brake caliper		
0	il	SHIMANO Mineral	
Funnel b	oleeding	Х	
Danah adiwat	Toolless	Х	
Reach adjust	Tool	-	
Free stro	ke adjust	-	
SERVO	WAVE	-	
Clause hand	Open clamp	Х	
Clamp band	I-SPEC	X*	
Clamp halt	Material	Stainless steel	
Clamp bolt	Finish	-	
Brake lever	Material	Aluminum	
Drake lever	Finish	Anodized	
Master cylinder	Material	Aluminum	
waster Cylinder	Finish	Painted	
No	ote	*I-SPEC B-type compatible	

Brake (Hydraulic disc brake)

Ser	ALFINE	
Mode	BR-S700	
Brake	type	Hydraulic disc brake
	1	Silver
Color	2	Black
	3	-
Brake h	SM-BH90-SB	
Hose	joint	Banjo
P. J. L (120)	1	Black
Brake hose color (kit)	2	-
ICE TECHN pad compat		Х
	Standard 1	G01A Resin
Pad	Standard 2	-
rau	Option 1	F01A Resin
	Option 2	-
Recommende	d brake lever	BL-S700-B
Recommende	d brake rotor	SM-RT81
0	il	SHIMANO Mineral
ONE WAY	BLEEDING	X
Moun (available for IS moun	t type t with mount adapter)	Post-type
Pist	ton	2
Piston r	naterial	Ceramic
	MONO-BODY	-
Caliper	Material	Aluminum
	Finish	Painted
	Material	Stainless steel
Caliper fixing bolt	Tool size	5 mm
	Anti loosen method	Snap ring
Pad n	nount	Pad axle
No	te	

Brake Lever

Sei	ries	NEXUS		
Mode	el no.	BL-C6010		
	1	Silver (C6000)		
Color	2	Silver (C3000)		
	3	Black		
	V-BRAKE	X		
	Mechanical disc brake (MTB)	·		
Compatible brake type	Mechanical disc brake (Road)	i		
	Caliper (NEW SUPER SLR)			
	Caliper (SUPER SLR)	-		
	Canti brake			
	Roller brake	Х		
Recommended	V-BRAKE	SM-PM40		
POWER MODULATOR	Mechanical disc brake (MTB)	-		
	Open clamp band	-		
Clamp band	I-SPEC	-		
	Diameter (mm)	22.2		
Internal bu	ımper stop	Х		
	e (Finger)	4		
Brake ca	ble type	T-type		
Power a	adjuster	-		
SERVO	WAVE	-		
Reach	adjust	X		
Cable	adjust	Х		
Cable ad	just type	Two hand		
Brake lever	Material	Aluminum		
Diake level	Finish	Anodized		
Brake bracket	Material	Aluminum		
Drake blacket	Finish	Painted		
Average	weight	-		
No	* Brake lever ratio is different from BL-C6000 for better performance with BR-C6000, C3000 series.			

Brake (Roller Brake)

Series	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.	BR-C6000-F	BR-C6000-R	BR-C3010-F	BR-C3010-R	BR-C3000-F	BR-C3000-R
Front	Х	-	x	-	х	-
Rear	-	х	-	х	-	х
Structure type	Hyper	Hyper	Normal	Normal	Normal	Normal
Braking power (*1)	1.5	1.2	1.2	1	1.2	1
Cooling fin diameter (mm)	150	150	140	140	122	122
Heat dissipation (*1)	1.4	1.4	1.2	1.2	1.0	1.0
Without cooling fin	-	-	-	-	-	-
Inner cable quick release	Х	Х	х	Х	Х	х
Disc brake mount compatible	-	-	-	-	-	-
Note *1 Performance index rating uses BR-C3000-R brake unit as a reference value of 1. Testing condition.						

Series	NEXUS	NEXUS	NEXUS
Model no.	BR-C2050-R	BR-IM31-F	BR-IM31-R
Front	-	Х	
Rear	Х	-	х
Structure type	Hyper	Normal	Normal
Braking power (*1)	1.2	0.9	0.9
Cooling fin diameter (mm)	150	90	90
Heat dissipation (*1)	1.4	Less than 1	Less than 1
Without cooling fin	-		Available
Inner cable quick release	-		-
Disc brake mount compatible	-		-
Note *1 Performance index rating uses BR-C3000-R brake unit as a reference value of 1. Testing condition.	Specification for Japan market	Specification for Japan market	Specification for Japan market



Crankset

Sai	ries	ALFINE	NEXUS
	el no.	FC-S501	FC-C6000
Mode			
	1	Silver	Silver
Color	2	Black	Black
	3	-	-
	45T	Х	-
	42T	X	-
	39T	Х	-
Chain ring teeth	38T	-	Х
	33T	-	Х
	Others	-	-
	P.C.D. (mm)	130	-
	Double	X	_
Chain award turns		-	_
Chain guard type	Single		
	NA	-	Х
Crank arm fixing bolt	with	Х	Х
	without	-	-
Chain li	ne (mm)	49.2 (double chain guard) 42.7 (single chain guard)	44
	Super Narrow HG for 9-speed	X (CN-HG93 CN-HG53)	-
Compatible chain	HG 8-speed (1/2"x3/32")	X (CN-HG71)	X (CN-HG71)
	1/2″x1/8″	-	X (CN-NX10)
Crank Arm	ength (mm)	170	170
Gear	arms	5	-
2-PIECE C	RANKSET	Х	
OCTA	ALINK	-	
	Outboard	Х	-
Compatible PP type	OCTALINK	-	
Compatible BB type			-
	Square	·	Х
Recommended BB	Threaded (normal)		
	Threaded (chain case)	-	Х
Axle length of BB-UN	Threaded (normal)		-
/ ES (mm)	Threaded (chain case)		BB-UN26-K
Threaded BB shell width	68mm	Х	х
Chain case	compatible	-	Х
Currelinan	Material	Aluminum	Aluminum
Crank arm	Finish	Anodized / Painted	Painted
	Material	Aluminum	Steel
Chain ring	Finish	Anodized	Black
	Material	Aluminum	Resin
	Finish	Anodized	Painted
Chain guard1	Diameter (mm) 45T	200	-
	Diameter (mm) 42T	190	-
	Diameter (mm) 39T	174	-
	Diameter (mm) 33T	-	95.4
	Material	Resin	-
	Finish	-	-
	Diameter (mm) 45T	200	-
Chain guard2	Diameter (mm) 42T	190	-
	Diameter (mm) 39T	174	-
	Diameter (mm) 33T	-	95.4
No	ote		t: chain case thickness * Both of spec with bolt and spec w/o bolt are available.

DC

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111

EVV

Front Hub (Roller Brake)

Sei	ries	NEXAVE	NEXUS
Mode	el no.	HB-IM70	HB-IM40
	1	Silver	Silver
Color	2	-	-
Ту	pe	For hub roller brake	For hub roller brake
	28H	-	-
	32H	-	-
Spoke holes	36H	Х	Х
	Others	-	-
P.C.D.	(mm)	70	52
015 (***)	100	Х	Х
O.L.D. (mm)	105	Х	-
Flange dis	tance (mm)	56.8	61.5
Offset	t (mm)	4.2(QR)3.7/6(NUT)	4.3
	26-28 inch	Х	Х
	20-28 inch	-	-
	16-28 inch	-	-
Wheel size	24-28 inch	-	-
	20-24inch	Х	-
	16-20 inch	-	-
	Compatible wheel size (mm)	-	-
	More than 26inch High	-	-
Roller brake modulator grade	More than 26inch Standard	Х	х
	20-24inch	Х	-
	QR skewer length 129 mm	х	
Axle (QR type)	QR skewer length 133 mm	х	-
	Axle length (mm)	108 (M10)	-
	Material	Steel	
	Axle length 140 mm	X (M9)	X (M9)
Axle (Nut type)	Axle length 145 mm	X (M9)	-
	Material	Steel	Steel
Se	eal	Х	Х
Hub shell	Material	Aluminum	Aluminum
HUM SHEH	Finish	Clear Painted	Machined
	Material	Aluminum	-
Quick release lever	Finish	Anodized	-
	Color	Silver	-
Structure (Br	aking power)	Hyper	Normal
No	ote		





FREEHUB (Roller Brake)

Series		NEXAVE	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-IM70	RH-IM11	RH-IM10	FH-IM20
Color		Silver	Silver	Silver	Silver
	28H	-	х	х	Х
	32H	Х	Х	Х	-
Spoke holes	36H	Х	х	х	Х
	Others	-	-	-	-
	P.C.D. (mm)	45	74	74	45
	Speeds	8-9 speed	-	-	7-speed
EDECLUID bada	11T compatible	Х	-	-	Х
FREEHUB body	Roller clutch	Roller Clutch	-	-	-
	Material	Steel	-	-	Steel
O.L.D	O.L.D. (mm)		132.7 (6-speed) 134.7 (7-speed)	132.7 (6-speed) 134.7 (7-speed)	134.7
Flange dia	meter (mm)	53.8	84	84	54
Flange dis	tance (mm)	60	57.1	57.1	61.2
Dish	(mm)	6.8	6.9 (6-speed) 7.9 (7-speed)	6.9 (6-speed) 7.9 (7-speed)	5.85
	QR Skewer Length	-	-	-	-
Axle (QR type)	Length (mm)	-	-		
	Material	-	-	-	
Axle (Nut Type)	Length left / right (mm)	185 (M10)	180 (M10)	180 (M10)	194/202
•	Material	Steel	Steel	Steel	Steel
Seal	Hub	Х		-	-
Seai	Freewheel	Х	-	-	-
Hub shell	Material	Aluminum	Steel	Steel	Steel
nub sileli	Finish	Anodized	Plating	Plating	Chrome plated
No	Note		For 6 / 7-speed multifree wheel	For 6 / 7-speed multifree wheel	

SG

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HP

EVV

FREEHUB (Band Brake) Head Parts

		CUINANIO		
Ser	SHIMANO			
Mode	FH-S028			
Со	Black			
	28H	Х		
	32H	-		
Spoke holes	36H	Х		
	Others	-		
	P.C.D. (mm)	45		
	Speeds	Single speed		
energium I. d	11T compatible	-		
FREEHUB body	Roller clutch	-		
	Material	Steel		
O.L.D.	O.L.D. (mm)			
Flange diar	Flange diameter (mm)			
Flange dist	tance (mm)	51.5		
Dish	(mm)	1.8		
	QR Skewer Length	-		
Axle (QR type)	Length (mm)	-		
	Material	-		
Axle (Nut Type)	Length left / right (mm)	165/170/180/185/192		
	Material	Steel		
Seal	Hub	-		
Seai	Freewheel	-		
Usik akali	Material	Steel		
Hub shell	Finish	Plated		

Sei	NEXUS	
Mode	HP-NX10	
Color	1	Black
Color	2	-
A (r	ø30.01 (ø29.85) or ø30.2 (ø30)	
B (r	nm)	30.5 - 31.5
Front fork ste	m thread Size	BC 1" X 24 T.P.I
C (r	nm)	Max. ø38
D (r	nm)	21.7
Head tub	e material	Steel
No	ote	





Electric Wire

	Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
	Model no.		EW-NX30	EW-NX30	EW-NX30	EW-NX30	EW-NX30	EW-NX30
Number of branch		Converter-1	Converter-2	Converter-3	2	2	3	
Distr	ibutor		-	-	-	X	X	X
Electric wire color		ck	X	X	X	X	X	X
Liectife Wife tolor	ic wire color Gra		-	-	-	-	-	-
	Cord to	Length	-	-	-	-	-	175
	SL / SM-R	EZ cable clamp	-	-	-	-	-	2
	Cord to	Length	-	-	-	-	-	65
	SM / SM-L	EZ cable clamp	-	-	-	-	-	1
	Distribu-	Length	-	-	-	-	-	-
	tor B **	EZ cable clamp	-	-	-	-	-	-
	Distribut	Length	-	-	-	-	-	-
	Distribu- tor C *	EZ cable clamp	-	-	-	-	-	-
	Cord	Length	-	-	-	-	-	-
Length (mm)	between distribu- tor B/C	EZ cable clamp	-	-	-	-	-	-
•	and A	Length	-	-	-	-	-	-
	Distribu- tor A ***	EZ cable clamp	-	-	-		-	-
		Length		-	-	570	570	570
	Cord to Front LP	EZ cable clamp	-	-	-	1	1	1
	Cord to	Length	-	-	-	270	270	-
	Rear LP	EZ cable clamp	-	-	-	2	2	-
	Cord to	Length	-	-		800	1000	800
	Dynamo	EZ cable clamp	-	-			-	-
	Cord for	Length	50	50	50	-	-	-
	converter	EZ cable clamp	-	-	-	-	-	-
	Usage		Converter between EWNX60 (with pin hole) connector and EWNX30 (with pin) connector	Converter between front light tab on and EWNX30 (with pin) connector	Converter between EWNX30 (with pin hole) connector and EWNX60 (with pin) connector	Auto light + LP-RTX2 combination	Auto light + LP-RTX2 combination	Auto light + SL/ SMRS34 combination
N	ote							

S	eries		SHIMANO	SHIMANO	SHIMANO	
Mo	del no.		EW-NX30	EW-NX30	EW-NX30	
Model no. Number of branch			3	4	4	
Distributor			Х	Х	Х	
Flectric wire color Black		ick	X	X	Х	
Electric wire color	Gr	ay	-		-	
	Cord to	Length	175	175	175	
	SL / SM-R	EZ cable	2	2	2	
	3L / 3IVI-N	clamp	2	2		
	Cord to	Length	215	65	215	
	SM / SM-L	EZ cable	2	1	2	
	SIVI 7 SIVI-L	clamp	2	!		
	Distribu-	Length	-	-	-	
	tor B **	EZ cable		_	_	
	tol B	clamp	, i			
	Distribu-	Length		-	-	
	tor C *	EZ cable	-	_	-	
	10. 0	clamp				
	Cord	Length	-	-	-	
	between					
	distribu-	EZ cable	-	_	_	
Length (mm)	tor B/C	clamp				
. 3 ,	and A	1				
	Distribu-	Length EZ cable	-	-	-	
	tor A ***		-	-	-	
		clamp	570	570	570	
	Cord to	Length EZ cable	5/0	5/0	5/0	
	Front LP	clamp	1	1	1	
		Length	-	270	270	
	Cord to	EZ cable				
	Rear LP	clamp	-	2	2	
		Length	1000	800	1000	
	Cord to	EZ cable				
	Dynamo	clamp	-	-	-	
	Cand to	Length	-	-	-	
	Cord for	EZ cable				
	converter	clamp	-	-	-	
			Auto light + SL/	PHF combination	PHF combination	
Usage			SMRS34 combination	(Auto light + SL/	(Auto light + SL/	
			JIVIN334 CUITIUITIATION	SMRS34 + LP-RTX2)	SMRS34 + LP-RTX2)	
N	lote					

SG

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SB

BL

BL

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FC

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EW



ROAD

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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	
c.t.	Model no.		Series color					
Color	:	2	-	-	-	-	-	-
2 Bracket cover color	1	Series color	Series color	2-Tone	Black	Black	Black	
		2	-	-	-	-	-	White
Leve	Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Front speeds		speeds	-	2	2	-	2	2
	Rears	peeds	11	-	11	11	-	11
		L GEAR PLAY	-	-	-	-	-	-
	FLIGHT	T DECK	-	-	-	-	-	-
	Multi-I constr	Bearing ruction	R:4 L:4	R:4 L:4	R:4 L:4	*	*	- *
		Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Shifting lever	Outer cas- ing	Rear derailleur side	OT-RS900	OT-RS900	OT-SP41 Sealed	OT-RS900	OT-RS900	OT-SP41 Sealed
	Shifting lever cable Shifting lever cable shipping condition	Material	SUS	SUS	SUS	SUS	SUS	SUS
		Finish	Polymer coated					
		Not Pre- Assem- bled	х	x	x	х	х	х
		Pre- Assem- bled	X	X	X	X	X	X
	Reach	adjust	Screw	Screw	Screw	Screw	Screw	Screw
	Clamp ba	and (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
Brake lever	SLR	R-EV	Х	х	Х	Х	Х	Х
	NEW SU	PER SLR	-	-	-	-	-	-
	SUPE	R SLR	-	-	-	-	-	-
		djuster cket		-	-	-	-	-
Bracket	Mat	erial	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
	Fin	ish	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
Main lever	Mat	erial	Carbon	Carbon	Carbon	CFRP	CFRP	CFRP
Walli level	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Average	weight		365 g/Pair	365 g/Pair	365 g/Pair	220 g	218 g	425 g/Pair
No	ote					* Use bush	* Use bush	* Use bush

Se	Series		ULTEGRA	ULTEGRA	105	105	105	TIAGRA
Model no.		ST-6700	ST-6703	ST-5800	ST-5700	ST-5703	ST-4700-R	
Color	Model no.		Series color	Series color	Black	Silver	Silver	Series color
Color 2		2	-	-	Silver	Black	Black	-
Pracket cover color		1	Black	Black	Black	Black	Black	Black
Bracket Cover Color	Bracket cover color 2		White	White	White	White	White	-
Leve	r type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Froi		speeds	2	3	2	2	3	-
	Rears	peeds	10	-	11	10	-	10
		L GEAR PLAY	-	-	-	-	-	-
	FLIGHT	T DECK	Х	х	-	-	-	-
	Multi-I constr	Bearing ruction	1	1	0	-		0
		Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Shifting lever	Outer cas- ing	Rear derailleur side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	Shifting lever cable	Material	sus	SUS	SUS	sus	sus	sus
		Finish	SIL-TEC	SIL-TEC	OPTISLICK	SIL-TEC	SIL-TEC	OPTISLICK
	Shifting lever cable shipping condition	Not Pre- Assem- bled	Х	Х	х	Х	Х	Х
		Pre- Assem- bled	X	X	X	X	X	Х
	Reach	adjust	Spacer Use	Spacer Use	Screw	Spacer Use	Spacer Use	screw
	Clamp ba	and (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
Brake lever	SLR	R-EV	-	<u> </u>	Х	-	-	-
	NEW SU	PER SLR	Х	Х	-	Х	Х	Х
	SUPE	R SLR	-	-	-	-	-	-
		idjuster cket			-	-	-	-
Bracket	Mat	erial	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Fin	ish	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Mat	erial	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
Main lever	Fin	ish	Painted	Painted	Painted	Silver: Clear Coated Black Paint	Silver: Clear Coated Black Paint	Painted
Average	weight		447 g/Pair	460 g/Pair	486 g/Pair	490 g/Pair	507 g/Pair	-
No	Note							

ST

ST

BL

BL

BR

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BR

KD

BB

НВ

FH

WH

НР

Sei	ries		TIAGRA	TIAGRA	TIAGRA	TIAGRA	SHIMANO	SORA
Model no.		ST-4700-L	ST-4703-L	ST-4600	ST-4603	ST-R460	ST-R3000-R	
		ı	Series color	Series color	Series color	Series color	Black	Series color
Color	- 1	2	-	-	-	-	-	-
2 Bracket cover color 2		Black	Black	Black	Black	Black	Standard	
		2	-	-	-	-	-	-
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER (ST-4600 operation style)	DUAL CONTROL LEVER	
	Front	speeds	2	3	2	3	2	-
	Rear s	peeds	-	-	10	-	10	9
		L GEAR PLAY	-	-	Х	x	х	-
	FLIGHT	DECK	-	-	-	-	-	-
	Multi-E constr		0	0	-	-	•	0
		Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Shifting lever	Outer cas- ing	Rear derailleur side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	SP41 Sealed
	Shifting	Material	SUS	SUS	sus	SUS	SUS	SUS
	lever cable	Finish	OPTISLICK	OPTISLICK	-		-	OPTISLICK
	Shifting lever cable shipping condition	Not Pre- Assem- bled	Х	x	х	х	Х	-
		Pre- Assem- bled	Х	X			-	Х
	Reach	adjust	screw	screw	Spacer Use	Spacer Use	Spacer Use	Screw
	Clamp ba	and (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
Brake lever	SLR	-EV	-	-	-	-	-	-
	NEW SU	PER SLR	Х	Х	х	Х	Х	Х
	SUPE	R SLR	·	-	-	-	-	-
n		djuster cket			х	х	-	-
Bracket	Mat	erial	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Fin	ish	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
Main lever		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Finish		Painted	Painted	Clear Coated	Clear Coated	Painted	Painted	
Average w <mark>eight</mark>		-	-	-	-	-	-	
Note					Integrated Cable Adjuster available	Integrated Cable Adjuster available	SHIMANO logo Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE	

BR

WH

WH

Col	ries		SORA	SORA	SORA	SORA	SHIMANO	CLARIS
Model no.								
Wiod			ST-R3000-L	ST-R3030-L	ST-3500	ST-3503	ST-R353	ST-R2000-R
Color		1	Series color	Series color	Series color	Series color	Black	Series color
1		-	-	-	-	-	-	
Bracket cover color 2		Standard	Standard	Black	Black	Black	Black	
		2	-	-	-	-	-	-
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER (ST-3500 operation style)	DUAL CONTROL LEVER	
Front speeds		speeds	2	3	2	3	3	-
	Rears	peeds	-	-	9	-	-	8
		L GEAR PLAY	-	-	х	х	х	-
	FLIGHT	L DECK	-	-	-	-	-	-
		Bearing ruction	0	0	-		<u></u>	-
		Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Shifting lever	Outer cas- ing	Rear derailleur side	SP41 Sealed	SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	Shifting	Material	SUS	SUS	SUS	SUS	SUS	Steel
	lever cable	Finish	OPTISLICK	OPTISLICK	-		SIL-TEC	OPTISLICK
	Shifting lever cable	Not Pre- Assem- bled	-	- •	х	х	Х	-
	shipping condition	Pre- Assem- bled	Х	X		-	-	Х
	Reach	adjust	Screw	Screw	Spacer Use	Spacer Use	Spacer Use	Screw
	Clamp band (mm)		23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
Brake lever	SLR	-EV	-	-	-	-	-	-
	NEW SU	PER SLR	Х	Х	х	х	Х	Х
	SUPE	R SLR	·	-	-	-	-	-
Cable adjuster bracket					х	х	-	-
Bracket	Mat	erial	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Fin	ish	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Main lever Finish		Painted	Painted	Painted	Painted	Painted	Painted	
Average weight			-	-	-	-	-	
Note				Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE Integrated Cable	Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE Integrated Cable	SHIMANO logo Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/		
					Adjuster available	Adjuster available	Compact V-BRAKE	

Ser	ries		CLARIS	CLARIS	CLARIS	CLARIS	CLARIS	TOURNEY
Mode	el no.		ST-R2000-L	ST-R2030-L	ST-2400-R	ST-2400-L	ST-2403-L	ST-A070
		1	Series color	Series color	Series color	Series color	Series color	Series color
Color	- 2	2	-	-	-	-	-	-
Bracket cover color 2		Black	Black	Black	Black	Black	Black	
		-	-	-	-	-	-	
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Front speeds		speeds	2	3	-	2	3	2
	Rear s	peeds	-	-	8	-	-	7
		L GEAR PLAY	-	-	х	х	Х	Х
	FLIGH1	T DECK	-	-	-	-	-	-
	Multi-E constr	Bearing ruction	-	-	-	-	_	-
		Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40
Shifting lever	Outer cas- ing	Rear derailleur side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SIS40
	Shifting lever cable	Material	Steel	Steel	SUS	SUS	SUS	SUS Option
		Finish	OPTISLICK	OPTISLICK	_		-	-
	Shifting lever cable shipping condition	Not Pre- Assem- bled	-	-	х	х	х	Х
		Pre- Assem- bled	х	X		-	-	-
	Reach adjust		Screw	Screw	Spacer Use	Spacer Use	Spacer Use	Screw
	Clamp band (mm)		23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
Brake lever	SLR	R-EV	-	-	-	-	-	-
	NEW SU	IPER SLR	X	Х	х	X	X	-
	SUPE	R SLR	-	-	-	-	-	Х
		ndjuster cket			-	-	-	-
Bracket	Mat	erial	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Fin	nish	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
Main lever	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Finish		Painted	Painted	Painted	Painted	Painted	Painted	
Average weight			-	-	-	-	-	
Note				Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/	Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/	Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/		
					Compact V-BRAKE	Compact V-BRAKE	Compact V-BRAKE	



Series		TOURNEY	CLARIS	CLARIS	CLARIS	CLARIS	CLARIS	
Mod	el no.		ST-A073-L	ST-RS200-R	ST-RS200-L	ST-RS203-L	ST-R240-R	ST-R240-L
Color 1 2		Series color	Series color	Series color	Series color	Series color	Series color	
		2	-	-	-	-	-	-
Pracket cover color	acket cover color		Black	-	-	-	-	-
Bracket cover color 2		-	-	-	-	-	-	
Lever type		DUAL CONTROL LEVER	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	
	Front speeds		3	-	2	3	-	2
	Rear speeds		-	8	-	-	8	-
		AL GEAR PLAY	Х	х	х	х	-	-
	FLIGH [*]	T DECK	-	-	-	-	-	-
		Bearing ruction	-	-	-	-		-
		Lever side	OT-SIS40	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Shifting lever	Outer cas- ing	Rear derailleur side	OT-SIS40	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	Shifting lever cable	Material	SUS Option	Steel	Steel	Steel	SUS	SUS
		Finish	-	OPTISLICK	OPTISLICK	OPTISLICK	-	-
	Shifting lever cable shipping condition	Not Pre- Assem- bled	Х	-			-	-
		Pre- Assem- bled	-	X	Х	x	х	х
	Reach ac		Screw	х	х	х	х	х
	Clamp b	and (mm)	23.8-24.2	22.2	22.2	22.2	22.2	22.2
Brake lever	SLF	R-EV	-	-	-	-	-	-
	NEW SU	IPER SLR	-	-	-	-	-	-
	SUPE	R SLR	Х	х	х	х	Х	Х
br		ndjuster cket	(х	х	х	х	х
Bracket	Mat	erial	GFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin	ish	GFRP	Painted	Painted	Painted	Painted	Painted
Main lever	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
wani level	Fir	ish	Painted	Painted	Painted	Painted	Anodized Black	Anodized Black
Average	e weight		-	-	-	-	-	-
Nete								

ST

SL

BL

BR

BR

BR

RD

FC

BB

НВ

FH

WH

НР

Se	ries		CLARIS	
Mod	ST-R243-L			
		1	Series color	
Color	2		-	
		1	-	
Bracket cover color		2	-	
Leve	r type		RAPIDFIRE PLUS	
	Front	speeds	3	
	Rears	peeds	-	
		L GEAR PLAY	-	
	FLIGHT	T DECK	-	
	Multi-Bearing construction		-	
		Lever side	OT-SP41	
Shifting lever	Outer cas- ing	Rear derailleur side	OT-SP41 Sealed	
	Shifting lever cable	Material	SUS	
		Finish	-	
	Shifting lever cable	Not Pre- Assem- bled	-	
	shipping condition	Pre- Assem- bled	х	
	Reach	adjust	х	
	Clamp ba	and (mm)	22.2	
Brake lever	SLR	-EV	-	
	NEW SU	PER SLR	-	
	SUPE	R SLR	Х	
		djuster cket	х	
Bracket	Mat	erial	Aluminum	
	Fin	ish	Painte <mark>d</mark>	
Main lever	Mat	erial	Aluminum	
Walli level	Fin	ish	Anodized Black	
Average	weight			





ST

BR

BR

BR

RD

НВ

WH

WH

Shifting/Brake Lever (Hydraulic disc brake)

Model No. STR-9120-R ST	SHIMANO	SHIMANO	ULTEGRA	ULTEGRA	DURA-ACE	DURA-ACE		ies	Se	
Bracket cover color	ST-RS685-L	ST-RS685-R	ST-R8020-L	ST-R8020-R	ST-R9120-L	ST-R9120-R		l no.	Mod	
Shifter type	Series color	Series color	Series color	Series color	Series color	Series color		1	Color	
Shifter type	-	-	-	-		-	2	2	Coloi	
Shifter type	Black		Standard		Standard				Bracket cover color	
Front speeds	DUAL CONTROI	DUAL CONTROL		DUAL CONTROL		DUAL CONTROL				
Rear speech	LEVER 2						noods			
2 / 3 mode converter	-									
Max.multiple.shifts (Main lever / rear)										
Model Speech No.	-	2	-	2	-	2	iple shifts	Max. mult		
Shifting lever	-	Road 11-speed RD	-	Road 11-speed RD	-	Road 11-speed RD				
Position adjust RELEASE Releas	-	-	-	-	-	-	mpatible	I-SPEC co		
MULTI	-	-	-	-	-	-				
Release	-			-	-	-	MULTI	position		
Shifting lever With - - -	-	-	4	-	-	-	INSTANT			
Shifting lever	-			-	-	-	2WAY-	Tunction		
Shifting lever	-	-	-	-	-	-				
GEAR Cemoup Composite Cemoup							With		Shifting lever	
Multi-Bearing	-	-			-	-			Jimany level	
Multi-Bearing Construction Con		_			_	_		PISPLAY		
Construction								Multi-R		
Casing	-	-	-	•	-	-				
Casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41				
Shifting Ilever Cable Shifting Ilever Cable Shifting Ilever Cable Sti. TEC			9 1 31 11				_	casi		
lever SILTEC - - - - - - - - -	Х	х	х	х	Х	Х	coated	lever		
Cable SILTEC -	-	-	-	-	-	-	OPTISLICK			
Steel	-	-	-	-	-	-	SIL-TEC			
Shifting lever cable Pre Pre Assembled X	-	-	-	-	-	-				
Shifting Inversion Pre assembled Shifting Inversion I	-		-		-					
Lever size (Finger)	Х	X	X	X	X	X		Shifting		
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 SM-BH59-JK-SS SM-SH2-JK-SS SM-SH2-JK-SS SM-SH2-JK-SS SM-SH2-JK-SK-SK-SK-SK-SK-SK-SK-SK-SK-SK-SK-SK-SK	Х	Х	Х	Х	х	Х	assem-			
Hose joint	-	-	-	-	-	-	e (Finger)	Lever size		
Brake 1	SM-BH59-J-SS SM-BH59-JK-SS		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	ose (Kit)	Brake ho		
Brake lever	Straight	_								
Brake lever Recommended brake caliper BR-R9170 BR-R9170 BR-R8070 BR-R8070 BR-R8070 BR-R8070 BR-R8070 BR-R5785 BI	Black	Black	Black	Black	Black	Black	1			
Rack Parke	White	White	-	-	-	-	2			
Name	BR-RS785	BR-RS785	BR-R8070	BR-R8070	BR-R9170	BR-R9170			Brake lever	
Reach adjust Tool less - - - -	HIMANO Miner	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	Mineral			
Adjust Tool X	-	-	-	-	-	-		Reach		
Free stroke adjust	Х	X	Х	X	X	X				
SERVOWAVE X	Х									
Clamp band I-SPEC -	X									
Clamp band I-SPEC	Х									
Bracket Diameter (mm) 23.8-24.2 23.	-								Clamp band	
Bracket Material Engineering Composite Composite Engineering Composite Composite Finish Bracket Engineering Composite Composite Composite Forming Composit	23.8-24.2								Ciamp pattu	
Bracket Composite Composite Composite Composite Finish Painted F										
Engineering Engineering Engineering Engineering	Aluminum								Bracket	
Material CERR Engineering Engineering Engineering Engineering	Painted		-	-	-	-	ish	Fin		
	Engineering Composite				CFRP	CFRP	erial	Mate	Brake lever	
	Painted	'		·	Painted	Painted	ish	Fin	DIAKE IEVEI	
Main	-					-			Chiffs and the second	
Shifter lever body Release Resin & Steel Res	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	ase	Rele	Snitter lever body	
Master cylinder	-	-	-	-	-	-	erial	Mate	Master cylinder	
Finish	-						ish			
	Steel									
Average weight 538 g/pair 538 g/pair 554 g/pair 554 g/pair 649 g/pair 64 Note	649 g/pair	649 g/pair	554 g/pair	554 g/pair	538 g/pair	538 g/pair				

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Shifting/Brake Lever (Hydraulic disc brake)

Se	ries		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mod	lel no.		ST-RS505-R	ST-RS505-L	ST-RS405-R	ST-RS405-L
		1	Series color	Series color	Dark Grey	Dark Grey
Color		2	-	-	-	-
Bracket cover color		1	Black	Black	Black	Black
Diacket cover color		2	-	-	-	-
Shifte	er type		DUAL CONTROL	DUAL CONTROL	DUAL CONTROL	DUAL CONTROL
	Front	speeds	LEVER -	LEVER 2	LEVER -	LEVER 2
		speeds	11	-	10	10
	2 / 3 mode converter		-	-	-	-
		tiple shifts	2		2	
	(Main lev	ver / rear)	2	-	2	-
		ible rear	Road 11-speed RD	-	Road 10-speed RD	-
		eur type ompatible		-	· -	-
		g lever	-			
		n adjust	-	-	-	-
		MULTI	_	_	_	_
	l	RELEASE				
	Release function	INSTANT RELEASE	-	-	-	-
		2WAY-				
		RELEASE	-	-	-	-
		With	-	-	-	-
Shifting lever	OPTICAL GEAR	With (remov-	_	_		
	DISPLAY	able)				
	<u></u>	Without	-	-	-	
		Bearing	-	-		
		ruction				
		ever outer sing	OT-SP41	OT-SP41	OT-SP41	OT-SP41
	-	Polymer-				
		coated	-	-	-	-
	Shifting lever	cable				
		OPTISLICK	Х	Х	Х	Х
	cable	SIL-TEC Stainless	-	-	-	-
		Stainless	-	-	-	- -
		Included	X	X	X	X
	Shifting lever	Pre			, n	
	cable	assem-	Х	Х	Х	Х
		bled				
	Lever size (Finger) Brake hose (Kit)		SM-BH59-J-SS	SM-BH59-J-SS	-	-
			SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-J-SS	SM-BH59-J-SS
]		כל אול כלוום ועול			
		joint	Straight	Straight	Straight	Straight
	Hose Brake	joint 1			Straight Black	Straight Black
	Hose Brake hose	1	Straight	Straight		,
	Hose Brake hose color (kit)	1 2	Straight Black -	Straight Black -	Black -	Black -
Brake lever	Hose Brake hose color (kit) Recommer	1	Straight Black	Straight Black		,
Brake lever	Brake hose color (kit) Recommer	1 2 nded brake iper SHIMANO	Straight Black - BR-RS505	Straight Black - BR-RS505	Black - BR-RS405	Black - BR-RS405
Brake lever	Hose Brake hose color (kit) Recommer	1 2 nded brake iper SHIMANO Mineral	Straight Black -	Straight Black -	Black -	Black -
Brake lever	Brake hose color (kit) Recommer cali Brake fluid	1 2 nded brake iper SHIMANO Mineral Oil	Straight Black - BR-RS505	Straight Black - BR-RS505	Black - BR-RS405	Black - BR-RS405
Brake lever	Hose Brake hose color (kit) Recommer cali	1 2 nded brake iper SHIMANO Mineral	Straight Black - BR-RS505 SHIMANO Mineral	Straight Black - BR-RS505 SHIMANO Mineral	Black - BR-RS405 SHIMANO Mineral	Black - BR-RS405 SHIMANO Minera
Brake lever	Hose Brake hose color (kit) Recommer cali Brake fluid Reach adjust	1 2 nded brake iper SHIMANO Mineral Oil Tool less	Straight Black - BR-RS505 SHIMANO Mineral	Straight Black - BR-RS505 SHIMANO Mineral	Black - BR-RS405 SHIMANO Mineral	Black - BR-RS405 SHIMANO Minera
Brake lever	Hose Brake hose color (kit) Recommer cali Brake fluid Reach adjust Funnel	1 2 nded brake iper SHIMANO Mineral Oil Tool less Tool	Straight Black - BR-RS505 SHIMANO Mineral - X	Straight Black - BR-RS505 SHIMANO Mineral - X	Black - BR-RS405 SHIMANO Mineral - X	Black - BR-RS405 SHIMANO Minera - X
Brake lever	Hose Brake hose color (kit) Recommer cali Brake fluid Reach adjust Funnel Free stro	1 2 Inded brake iper SHIMANO Mineral Oil Tool less Tool bleeding ike adjust	Straight Black - BR-RS505 SHIMANO Mineral - X X X X	Straight Black - BR-RS505 SHIMANO Mineral - X X X X	Black - BR-RS405 SHIMANO Mineral - X X -	Black - BR-RS405 SHIMANO Minera - X
	Hose Brake hose color (kit) Recommer cali Brake fluid Reach adjust Funnel I Free stro SERVC	1 2 Inded brake iper SHIMANO Mineral Oil Tool less Tool bleeding ike adjust DWAVE clamp	Straight Black - BR-RS505 SHIMANO Mineral - X X X X X	Straight Black BR-RS505 SHIMANO Mineral X X X X X -	Black - BR-RS405 SHIMANO Mineral - X X	Black - BR-RS405 SHIMANO Minera - X X
Brake lever	Hose Brake hose color (kit) Recommer cali Brake fluid Reach adjust Funnel Free stro SERVC Open	1 2 Inded brake iper SHIMANO Mineral Oil Tool less Tool bleeding oke adjust DWAVE clamp PEC	Straight Black - BR-RS505 SHIMANO Mineral - X X X X	Straight Black BR-RS505 SHIMANO Mineral X X X X -	Black - BR-RS405 SHIMANO Mineral - X X	Black - BR-RS405 SHIMANO Minera X X
	Hose Brake hose color (kit) Recommer cali Brake fluid Reach adjust Funnel Free stro SERVC Open I-S Diamet	1 2 Inded brake iper SHIMANO Mineral Oil Tool less Tool bleeding ike adjust DWAVE clamp PEC er (mm)	Straight Black - BR-RS505 SHIMANO Mineral - X X X X 23.8-24.2	Straight Black BR-RS505 SHIMANO Mineral X X X X 2 - 23.8-24.2	Black - BR-RS405 SHIMANO Mineral - X X 23.8-24.2	Black - BR-RS405 SHIMANO Minera X X 23.8-24.2
	Hose Brake hose color (kit) Recommer cali Brake fluid Reach adjust Funnel Free stro SERVC Open I-S Diamet	1 2 Inded brake iper SHIMANO Mineral Oil Tool less Tool bleeding ike adjust DWAVE clamp PEC er (mm) ierial	Straight Black - BR-RS505 SHIMANO Mineral - X X X X 23.8-24.2 Aluminum	Straight Black BR-RS505 SHIMANO Mineral X X X X 2 - 23.8-24.2 Aluminum	Black - BR-RS405 SHIMANO Mineral - X X 23.8-24.2 Aluminum	Black - BR-RS405 SHIMANO Minera X X 23.8-24.2 Aluminum
Clamp band Bracket	Hose Brake hose color (kit) Recommer cali Brake fluid Reach adjust Funnel Free stro SERVC Open I-S Diamet Mat	1 2 Inded brake iper SHIMANO Mineral Oil Tool less Tool bleeding oke adjust DWAVE clamp PEC er (mm) ierial nish	Straight Black - BR-RS505 SHIMANO Mineral - X X X X 23.8-24.2 Aluminum Painted	Straight Black BR-RS505 SHIMANO Mineral X X X X A 2 23.8-24.2 Aluminum Painted	Black BR-RS405 SHIMANO Mineral X X X 23.8-24.2 Aluminum Painted	Black - BR-RS405 SHIMANO Minera - X X X 23.8-24.2 Aluminum Painted
Clamp band	Hose Brake hose color (kit) Recommer cali Brake fluid Reach adjust Funnel Free stro SERVC Open I-S Diamet Mat	1 2 Inded brake iper SHIMANO Mineral Oil Tool less Tool bleeding oke adjust DWAVE clamp PEC er (mm) Iterial oils bleeding oils b	Straight Black - BR-RS505 SHIMANO Mineral - X X X X 23.8-24.2 Aluminum Painted Aluminum	Straight Black BR-RS505 SHIMANO Mineral X X X X 2 - 23.8-24.2 Aluminum Painted Aluminum	Black - BR-RS405 SHIMANO Mineral - X X X 23.8-24.2 Aluminum Painted Aluminum	Black - BR-RS405 SHIMANO Minera - X X X 23.8-24.2 Aluminum Painted Aluminum
Clamp band Bracket Brake lever	Hose Brake hose color (kit) Recommer cali Brake fluid Reach adjust Funnel Free stro SERVC Open I-S Diamet Mat Fir	1 2 Inded brake iper SHIMANO Mineral Oil Tool less Tool bleeding oke adjust DWAVE clamp PEC er (mm) ierial nish	Straight Black - BR-RS505 SHIMANO Mineral - X X X X 23.8-24.2 Aluminum Painted	Straight Black BR-RS505 SHIMANO Mineral X X X X A 2 23.8-24.2 Aluminum Painted	Black BR-RS405 SHIMANO Mineral X X X 23.8-24.2 Aluminum Painted	Black BR-RS405 SHIMANO Minera X X X 23.8-24.2 Aluminum Painted
Clamp band Bracket	Hose Brake hose color (kit) Recommer cali Brake fluid Reach adjust Funnel Free stro SERVC Open I-S Diamet Mat Fir	1 2 Inded brake iper SHIMANO Mineral Oil Tool less Tool bleeding oke adjust DWAVE clamp PEC er (mm) Iterial sish	Straight Black - BR-RS505 SHIMANO Mineral - X X X X 23.8-24.2 Aluminum Painted Aluminum Painted	Straight Black BR-RS505 SHIMANO Mineral X X X X X A A A A A A A A A A A A A A	Black BR-RS405 SHIMANO Mineral X X X 23.8-24.2 Aluminum Painted Aluminum Painted	Black BR-RS405 SHIMANO Minera X X X 23.8-24.2 Aluminum Painted Aluminum Painted
Clamp band Bracket Brake lever Shifter lever body	Hose Brake hose color (kit) Recommer cali Brake fluid Reach adjust Funnel Free stro SERVC Open I-S Diamet Mat Fir Mat Relor	1 2 Inded brake iper SHIMANO Mineral Oil Tool less Tool bleeding oke adjust DWAVE clamp PEC er (mm) Iterial issh	Straight Black - BR-RS505 SHIMANO Mineral - X X X X 23.8-24.2 Aluminum Painted Aluminum Painted -	Straight Black BR-RS505 SHIMANO Mineral X X X X X A A A A A A A A A Aluminum Painted Aluminum Painted Aluminum Painted -	Black BR-RS405 SHIMANO Mineral X X X 23.8-24.2 Aluminum Painted Aluminum Painted	Black BR-RS405 SHIMANO Minera X X X 23.8-24.2 Aluminum Painted Aluminum Painted -
Clamp band Bracket Brake lever	Hose Brake hose color (kit) Recommer cali Brake fluid Reach adjust Funnel Free stro SERVC Open I-S Diamet Mat Fir Mat Rele Mat	1 2 Inded brake iper SHIMANO Mineral Oil Tool less Tool bleeding oke adjust DWAVE clamp PEC er (mm) Iterial ish ish ain ease	Straight Black - BR-RS505 SHIMANO Mineral - X X X X X 23.8-24.2 Aluminum Painted Aluminum Painted - Steel & Resin	Straight Black BR-RS505 SHIMANO Mineral X X X X X A 2 23.8-24.2 Aluminum Painted Aluminum Painted Aluminum Painted - Steel & Resin	Black BR-RS405 SHIMANO Mineral X X X 23.8-24.2 Aluminum Painted Aluminum Painted - Steel & Resin	Black - BR-RS405 SHIMANO Minera - X X X 23.8-24.2 Aluminum Painted Aluminum Painted - Steel & Resin
Clamp band Bracket Brake lever Shifter lever body Master cylinder Clam	Hose Brake hose color (kit) Recommer cali Brake fluid Reach adjust Funnel Free stro SERVC Open I-S Diamet Mat Fir Mat Rele Mat	1 2 Inded brake iper SHIMANO Mineral Oil Tool less Tool bleeding oke adjust DWAVE clamp PEC cer (mm) Indentify the certal oils is hearing on the certal oils hearing on the certal oils hearing of the certal oils hearing of the certal oils hearing of the certal oils hearing of the certal oils hearing of the certal oils hearing of the certal oils hearing of the certal oils hearing of the certal oils hearing of the certal oils hearing of the certal oils hearing of the certal oils hearing of the certain oils hearing oils hea	Straight Black - BR-RS505 SHIMANO Mineral - X X X X X 23.8-24.2 Aluminum Painted Aluminum Painted - Steel & Resin -	Straight Black BR-RS505 SHIMANO Mineral X X X X X 2 - 23.8-24.2 Aluminum Painted Aluminum Painted Aluminum Painted - Steel & Resin -	Black BR-RS405 SHIMANO Mineral X X X 23.8-24.2 Aluminum Painted Aluminum Painted Aluminum Painted - Steel & Resin -	Black BR-RS405 SHIMANO Minera X X X 23.8-24.2 Aluminum Painted Aluminum Painted - Steel & Resin -

ROAD

Shifting Lever

Series		DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	DURA-ACE
Mode	el no.	SL-BSR1	SL-7900	SL-BS79	SL-R780	SL-R783-L	SL-7700
Color	1	Series color	Series color	Series color	Silver	Silver	Series color
Color	2	-	-	-	Black	Black	-
Shifte	r type	Bar end Shifter	Down Tube Shifter	Bar end Shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Down Tube Shifter
Front s	peeds	2	2/3	2/3	2	3	2/3
Rear s	peeds	11	10	10	10	-	9
Compatible rear	derailleur type	ROAD 11-speed RD	ROAD 10-speed RD	ROAD 10-speed RD	ROAD 10-speed RD	-	ROAD 9-speed RD
Shifting lever	oosition adjust	-	-	-	-	-	-
Shifting lever	cable adjust	-	-	-	X	X	-
Max. multiple shift	s (Main lever/ rear)	-	-	-	4	-	-
Functio	n name						
	MULTI RELEASE	-	-	-	X(Right) / - (Left)	-	-
Release function	INSTANT RELEASE	-	-	-	X	X	-
	2WAY-RELEASE	-	-	-	X	Х	-
	with	-	-	-	X	X	-
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	Х	Χ	X	-	-	X
Multi-Bearing	construction	-	-	-	R:2 L:2	2	-
Shifting lever bracket	Material	-	-	-	Aluminum	Aluminum	-
Similing lever bracket	Finish	-	-	-	Painted	Painted	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Walli level body	Finish	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Clear Coated
Release lever body	Material	-	-		GFRP & Steel	GFRP & Steel	-
Release level body	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Jilling level cable	Finish	SIL-TEC	SIL-TEC	SIL-TEC	-	-	-
Recommended Shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average	weight	153 g/pair	63 g/pair	153 g/pair	270 g/pair	270 g/pair	-
No	te				For flat handle bar	For flat handle bar	

Series		DURA-ACE	SHIMANO	ULTEGRA	TIAGRA	TIAGRA	TIAGRA
Model no.		SL-BS77	SL-RS700	SL-BS64-8	SL-4700	SL-4703	SL-4600
Color	1	Series color	Silver	Series color	Series color	Series color	Series color
Color	2	-	Black	-	-	-	-
Shifter type		Bar end Shifter	RAPIDFIRE PLUS	Bar end Shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front s	peeds	2/3	2	2/3	2	3	2
Rear s	peeds	9	11	8	10	-	10
Compatible rear	derailleur type	ROAD 9-speed RD	ROAD 11-speed RD	ROAD 8-speed RD	RD-4700	RD-4700	ROAD 10-speed RD
Shifting lever p	oosition adjust	-	-	-	-	-	-
Shifting lever	cable adjust		X	-	X	Х	X
Max. multiple shift	s (Main lever/ rear)		4	-	4	-	4
Function	n name						
	MULTI RELEASE	-	*X(Right) / - (Left)	-	-	-	-
Release function	INSTANT RELEASE	-	X	-	X (rear)	-	X (R)
	2WAY-RELEASE	-	Χ	-	X	Х	X
0071641 6540	with	-	-	-	X	Х	X
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	Х	Х	Х	-	-	-
Multi-Bearing	construction	-	R:2 L:2	-	R:2 L:2	2	R:2 L:2
Shifting lever bracket	Material	-	Aluminum	-	Aluminum	Aluminum	Aluminum
Siliting level blacket	Finish	-	Painted	-	Painted	Painted	Painted
Main lever body	Material	Aluminum	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
Main level body	Finish	Clear Coated	Painted	Clear Coated	Painted	Painted	Painted
Release lever body	Material	-	GFRP & Steel	-	Resin & Steel	Resin & Steel	Resin & Steel
ncieuse ievei bouy	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Jiii ting level cable	Finish	-	SIL-TEC	-	-	-	-
Recommended Shiftii	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average	weight	-	210 g/pair	-	-	-	-
No	te		* Pull:single Push:double				

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Shifting Lever

Ser	ies	TIAGRA	SHIMANO	SHIMANO	SORA	SORA	SORA
Mode	el no.	SL-4603	SL-R460	SL-R400	SL-R3000-R	SL-R3000-L	SL-R3030-L
Color	1	Series color	Black	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Down Tube Shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front s	peeds	3	2	2/3	-	2	3
Rear s	peeds	-	10	8	9	-	-
Compatible rear	derailleur type	-	ROAD 10-speed RD	ROAD 8-speed RD	RD-R3000	FD-R3000	FD-R3030
Shifting lever p	oosition adjust	-	-	-	-	-	-
Shifting lever	cable adjust	X	X	-	X	X	Χ
Max. multiple shifts	s (Main lever/ rear)	-	4	-	3	-	-
Function	n name						
	MULTI RELEASE	-	-	-	-	-	-
Release function	INSTANT RELEASE	-	X (right side)	-	-	-	-
	2WAY-RELEASE	X	X	-	X	Х	X
	with	X	X	-	X	X	X
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	-	-	X	-	-	-
Multi-Bearing	construction	2	R:2 L:2	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	-	Aluminum	Aluminum	Aluminum
Siliting lever bracket	Finish	Painted	Painted	-	Painted	Painted	Painted
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Maili level body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material	Resin & Steel	Resin & Steel		Resin & Steel	Resin & Steel	Resin & Steel
Release level body	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	SUS	SUS	SUS
Similaring rever cable	Finish	-	-	-	OPTISLICK	OPTISLICK	OPTISLICK
Recommended Shiftir	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average	weight	-	-	-	-	-	-
No	te		SHIMANO logo				

Ser	ies	SORA	SORA	SHIMANO	SHIMANO	CLARIS	CLARIS
Mode	el no.	SL-3500	SL-3503	SL-R350-R	SL-R353	SL-R2000-R	SL-R2000-L
c.i.	1	Series color	Series color	Black	Black	Series color	Series color
Color	2		-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS RAPIDFIRE PLUS					
Front s	speeds	2	3	-	3	-	2
Rear s	peeds	9	-	9	-	8	-
Compatible rear	derailleur type	ROAD 9-speed RD	-	ROAD 9-speed RD	-	Road 8-speed	-
Shifting lever p	oosition adjust	·	-	-	-	-	-
Shifting lever	r ca <mark>ble ad</mark> just	Х	X	X	X	X	X
Max. multiple shift	s (Ma <mark>in lev</mark> er/ rear)	3	-	3	-	3	-
Function	n name						
	MULTI RELEASE	-	-	-	-	-	-
Release function	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	Х	Х	X	X	Х	Х
ODTICAL CEAR	with	Х	X	Х	X	X	Х
OPTICAL GEAR DISPLAY	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing	construction	-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Similing level blacket	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Resin & Steel	Resin & Steel
Main level body	Finish	Painted	Painted	Painted	Painted	-	-
Release lever body	Material	Resin & Steel Resin & Steel					
ncieuse ievei bouy	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
Similing level cable	Finish	-	-	-	-	OPTISLICK	OPTISLICK
Recommended Shiftii	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average	weight	-	-	-	-	-	-
No	te			SHIMANO logo	SHIMANO logo		

ROAD

Shifting Lever

Ser	ies	CLARIS	CLARIS	CLARIS	CLARIS	A050	A050
Mode	el no.	SL-R2030-L	SL-2400-R	SL-2400-L	SL-2403-L	SL-A050-7R	SL-A050-LN
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Shifte	r type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Handle Bar Mount Shifter	Handle Bar Mount Shifter
Front	peeds	3	-	2	3	-	2 (Friction)
Rear s	peeds	-	8	-	-	7	-
Compatible rear	derailleur type	•	ROAD 8-speed RD	-	-	ROAD 7-speed RD	-
Shifting lever	oosition adjust	-	-	-	-	-	-
Shifting leve	cable adjust	X	X	X	X	-	-
Max. multiple shift	s (Main lever/ rear)	-	3	-	-	-	-
Functio	n name						
	MULTI RELEASE	•	-	-	-	-	-
Release function	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	X	X	X	X	_	-
	with	X	X	X	Х		-
OPTICAL GEAR DISPLAY	with (removable)	-	-	-		-	-
2.0.2	without	•	-	-	-	Х	X
Multi-Bearing	construction	-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
Silitting lever bracket	Finish	Painted	Painted	Painted	Painted	Zinc plated	Zinc plated
Main lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin	Resin
Main level body	Finish	-	-	-		-	-
Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin	Resin
Release level body	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
Jilliung lever cable	Finish	OPTISLICK		-	-	Standard	Standard
Recommended Shifti	ng lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40	OT-SIS40
Average	weight	-	-	-	-	-	-
No	te						

Ser	ies	SHIMANO	SHIMANO	
Mode	el no.	SL-SY20A-7	SL-SY20A-6	
	1	Series color	Series color	
Color	2	-		
Shifte	r type	Down Tube Mount Shifter	Down Tube Mount Shifter	
Front :	speeds	2 (Friction)	2 (Friction)	
Rear s	peeds	7	6	
Compatible rea	derailleur type	ROAD 7-speed RD	ROAD 6-speed RD	
Shifting lever	oosition adjust	-	-	
Shifting leve	r cable adjust		-	
Max. multiple shift	s (Main lever/ rear)	-	-	
Functio	n name			
Release function	MULTI RELEASE	-	-	
	INSTANT RELEASE	-	-	
	2WAY-RELEASE	-	-	
	with	-	-	
OPTICAL GEAR DISPLAY	with (removable)	-	-	
	without	Х	X	
Multi-Bearing	construction	-	-	
Shifting lever bracket	Material	Steel	Steel	
Siliting lever bracket	Finish	Zinc plated	Zinc plated	
Main lever body	Material	Resin	Resin	
Main lever body	Finish	-	-	
Release lever body	Material	Resin	Resin	
Release lever body	Finish	-	-	
Shifting lever cable	Material	Steel	Steel	
Simuling lever cable	Finish	Standard	Standard	
Recommended Shifti	ng lever outer casing	OT-SIS40	OT-SIS40	
Average	weight	-	-	
No	te	Stem and brazed on, band types are available	Stem and brazed on, band types are available	

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Brake Lever

Se	ries	SHIMANO	DURA-ACE	TIAGRA	SHIMANO	SHIMANO	SORA
Mod	el no.	BL-R780	BL-TT79	BL-4700	BL-R550	BL-R400	BL-R3000
	1	Silver	Black	Series color	Silver	Series color	Series color
Color	2	Black	-	-	Black	-	-
	3	-	-	-	-	-	-
	V-BRAKE	Х	-	Х	-	-	Х
	Mechanical disc brake (Road)	Х	Х	Х	Х	-	Х
Compatible brake type	Caliper (NEW SUPER SLR)	Х	Х	Х	-	-	Х
	Caliper (SUPER SLR)	-	-	-	X	Х	-
	Cantilever brake	Х	Х	Х	Х	-	X
	Roller brake	-	-	-	-	-	-
Recommended	V-BRAKE	-	-	-	-	-	-
POWER MODULATOR	Mechanical disc brake (MTB)	-	-	-		-	-
	Open clamp band	-	-	-	•	-	-
Clamp band	I-SPEC compatible	-	-	-	-	-	-
	Diameter (mm)	22.2	*	22.2	22.2	23.8-24.2	22.2
Internal b	ımper stop	Х	-	х	·	-	Х
Lever siz	e (Finger)	2.5	-	2.5	2.5	-	2.5
Brake ca	ble type	T-type	-	T-type	T-type	-	T-type
Power	adjuster	-	-	-	-	-	-
SERVO	OWAVE	-	-		-	-	-
Reach	adjust	Х	X	Х	Х	-	Х
Cable	adjust	Х	-	Х	X	-	Х
Cable ad	just type	Two hand	·	Two hand	Two hand	-	Two hand
Brake lever	Material	Aluminum	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
DIGKE IEVEL	Finish	Anodized	Painted	Anodized	Anodized	Barrel	Anodized
Brake bracket	Material	Aluminum	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
Diane blacket	Finish	Painted	Painted	Painted	Painted	Anodized	Painted
Average	Average weight		89 g/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.				

ROAD

Brake Lever

Sei	ries	CLARIS		
	el no.	BL-R2000		
linea.	1	Series color		
Color	2	-		
	3	_		
	V-BRAKE	X		
	Mechanical disc brake (Road)	х		
Compatible brake type	Caliper (NEW SUPER SLR)	Х		
	Caliper (SUPER SLR)	-		
	Cantilever brake	Х		
	Roller brake	-		
	V-BRAKE	-		
Recommended POWER MODULATOR	Mechanical disc brake (MTB)	-		
	Open clamp band	-		
Clamp band	I-SPEC compatible	-		
	Diameter (mm)	22.2		
Internal bu	ımper stop	х		
Lever siz	e (Finger)	2.5		
Brake ca	ble type	T-type		
Power a	adjuster	-		
SERVO	WAVE	-		
Reach	adjust	Х		
Cable	adjust	Х		
Cable ad	just type	Two hand		
B. J. J.	Material	Aluminum		
Brake lever	Finish	anodized		
Busha hasalari	Material	Aluminum		
Brake bracket	Finish	painted		
Average	e weight			
No	ote			

Brake Lever (Hydraulic disc brake)

Sei	Series						
Mode	Model no.						
Brake	Brake type						
Lever size	e (Finger)	3					
	1	Black					
Color	2	-					
	3	-					
Brake h	ose (Kit)	SM-BH59-JK-SS					
Hose	joint	Straight					
Brake hose color (kit)	1	Black					
brake flose color (kit)	-						
Recommended	d brake caliper	BR-RS405					
0	il	SHIMANO Mineral					
Funnel I	oleeding	х					
Reach adjust	Toolless	-					
Reach adjust	Tool	X					
Free stro	ke adjust	-					
SERVO	WAVE	-					
	Open clamp	Х					
Clamp band	I-SPEC B						
	I-SPEC II	х					
Clamp bolt	Material	Stainless steel					
	Finish	-					
Brake lever	Material	Aluminum					
Di are lever	Finish	Anodized					
Master cylinder	Material	Aluminum					
Muster Cymruel	Finish	Painted					
No	ote						

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HP

Ser	ies		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Mode	el no.		BR-R9100	BR-R9110-F	BR-R9110-R	BR-R9110-RS	BR-9000	BR-9010-F
	1	ı	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	2	-	-	-	-	-	-
Туј	pe		SLR EV Dual Pivot	Direct mount type	Direct mount type	Direct mount type	SLR EV Dual Pivot	Direct mount type
Reach	(mm)		51	51	51	51	49	49
	Stan	dard	R55C4	R55C4	R55C4	R55C4	R55C4	R55C4
Brake shoe	Optiona	l 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 R55C3	R55C4 Carbon R55C4-A Carbon
Compa	tibility		SLR EV	SLR EV	SLR EV	SLR EV	SLR EV	SLR EV
		10.5	Х	-	-	-	X	-
		12.5	Х	-	-	-	X	-
Accombly nives need	Front (mm)	18.0	Х	-	-	- /	х	-
Assembly pivot nut (mm)	`,	27.0	Х	-	-		X	-
		32.0	Х	-	-		X	-
	Rear (mm)	10.5	Х	-	-	-	X	-
Cartridge s	Cartridge shoe holder		Х	x	X	X	X	Х
Tire guide bumpers		Х	х	х	Х	X	Х	
Q	QR		Х	х	-	Х	х	Х
Shoe angle adjusting		Х	Х	Х	Х	Х	Х	
Spring tension	Spring tension adjusting		-	-	х	-	Х	Х
Maximum	tire size		28C	28C	28C	28C	25C	25C
Rim v	vidth		20.8-28 mm	20.8-28 mm	20.8-28 mm	20.8-28 mm	*19-28 mm	*19-28 mm
Cantaldan abaa baldan	Mat	erial	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium
Cartridge shoe holder	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
C	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
C-arm	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
i-allii	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Mat	erial	Aluminum		-	-	Aluminum	-
Gate	Fin	ish	Anodized		-	-	Anodized	-
QR	Mat	erial	Resin	Resin	-	Resin	Aluminum	Aluminum
Λu	Fin	ish	Painted	Painted	-	Painted	Painted	Painted
Titanium cab	le fixing bo	t	X	Х	Х	Х	Х	Х
Titanium	pivot bolt		X	X (fixing bolt)	X (fixing bolt)	X (fixing bolt)	Х	X (fixing bolt)
Average	weight		326 g/pair	150 g/pc	139 g/pc	148 g/pc	297 g/pair	153 g/pcs
Note					"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature."		Maximum tire size: 25 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)	Maximum tire size: 25 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)

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Ser	ies		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Mode	el no.		BR-9010-R	BR-9010-RS	BR-R8000	BR-R8010-F	BR-R8010-R	BR-R8010-RS
		l I	Series color	Series color	Series color	Series color	Series color	Series color
Color		2	-	-	-	-	-	-
Ту	pe		Direct mount type	Direct mount type	SLR EV Dual Pivot	Direct mount type	Direct mount type	Direct mount type
Reach	(mm)		49	49	51	51	51	51
	Stan	dard	R55C4	R55C4	R55C4	R55C4	R55C4	R55C4
Brake shoe	Optiona	Il choice	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon / R55C4-A Carbon / R55CT4	R55C4 Carbon / R55C4-A Carbon / R55CT4	R55C4 Carbon / R55C4-A Carbon / R55CT4	R55C4 Carbon / R55C4-A Carbon / R55CT4
Compa	tibility		SLR EV	SLR EV	SLR EV	SLR EV	SLR EV	SLR EV
		10.5	-	-	Х	-	-	-
		12.5	-	-	Х	-	-	-
Assamble = book =:	Front (mm)	18.0	-	-	Х	-	-	-
Assembly pivot nut (mm)	, <i>,</i>	27.0	-	-	Х	-	-	-
		32.0	-	-	Х			-
	Rear (mm)	10.5	-	-	Х	-		-
Cartridge s	hoe holder		Х	X	X	X	X	X
Tire guide	Tire guide bumpers		Х	Х	Х	Х	Х	Х
QR		-	Х	X	X	-	Х	
Shoe angle adjusting		Х	X	X	X	Х	Х	
Spring tension adjusting		Х	-	-	-	Х	-	
Maximum tire size		25C	25C	28C	28C	28C	28C	
Rim v	vidth		*19-28 mm	*19-28 mm	20.8-28.0 mm	20.8-28.0 mm	20.8-28.0 mm	20.8-28.0 mm
Cartridge shoe holder	Mat	erial	Magnesium	Magnesium	Aluminum	Aluminum	Aluminum	Aluminum
Cartriage snoe noticer	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
C-arm	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
1-aiiii	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Mat	erial			Aluminum	-	-	-
Gute	Fin	ish	-		Anodized	-	-	-
QR	Mat	erial		Aluminum	Resin	Resin	-	Resin
Λu	Fin	ish		Painted	Painted	Painted	-	Painted
Titanium cab	le fixing bo	lt	X	х	-	-	-	-
Titanium	pivot bolt		X (fixing bolt)	X (fixing bolt)	-	-	-	-
Average	weight		127 g/pcs	149 g/pc	182 g (Front) 178 g (Rear)	174 g/pc	160 g/pc	172 g/pc
Note			"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature." Maximum tire size: 25 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)	Maximum tire size: 25 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)			"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature."	

Series		ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	SHIMANO	105	
Mode	el no.		BR-6800	BR-6810-F	BR-6810-R	BR-6810-RS	BR-R650	BR-5800
			Series color	Series color	Series color	Series color	Silver	Black
Color		2	-	-	-	-	-	Silver
Ty	 pe		SLR EV Dual Pivot	Direct mount type	Direct mount type	Direct mount type	SUPER SLR Dual Pivot	SLR EV Dual Pivot
Reach			51	51	51	51	57	51
	Stan	dard	R55C4	R55C4	R55C4	R55C4	R55C2	R55C4
Brake shoe	Optiona	Il choice	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon	R55C for Carbon rim R55C for Ceramic rim	R55C4 for Carbon rim, R55C4-A for Carbon rim (wider than 25mm rim)
Compa	tibility		SLR EV	SLR EV	SLR EV	SLR EV	SUPER SLR	SLR EV
		10.5	Х	-	-	-	Х	Х
		12.5	Х	-	-	-	Х	Х
A	Front (mm)	18.0	Х	-	-	-	х	Х
Assembly pivot nut (mm)	()	27.0	Х	-	-	-	Х	Х
		32.0	Х	-	-	-		Х
	Rear (mm)	10.5	Х	-	-		Х	Х
Cartridge s	hoe holder		Х	Х	Х	х	Х	Х
Tire guide bumpers		Х	Х	х	Х	-	Х	
Q	QR		Х	Х	-	х	Х	Х
Shoe angle adjusting		Х	Х	Х	Х	Х	Х	
Spring tension	Spring tension adjusting		Х	-	Х	-	-	-
Maximum	tire size		25C	28C	28C	28C	28C	28C
Rim v	vidth		*19-28 mm	*19-28 mm	*19-28 mm	*19-28 mm	19-26 mm	19-28 mm
c. dili. di di lili.	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Cartridge shoe holder	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
C-arm	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
.,	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Y-arm	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Carl	Mat	erial	Aluminum		-	-	Aluminum	Aluminum
Gate	Fin	ish	Anodized	-	-	-	Anodized	Anodized
0.5	Mat	erial	Aluminum	Aluminum	-	Aluminum	Zinc	Resin
QR	Fin	ish	Painted	Painted	-	Painted	Plated	Painted
Titanium cab	le fixing bo	lt		-	-	-	-	-
Titanium _I	pivot bolt			-	-	-	-	-
Average	weight		335 g/pair	173 g/pc	167.7 g/pcs	168 g/pc	-	388 g/pair
Note			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)	"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature." 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)	Maximum tire size: 28 mm	Maximum tire size: 28 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)



BR

BR

BR

RD

FD

WH

WH

Brake (Caliper Brake)

Ser	ies		105	105	105	SHIMANO	TIAGRA	SHIMANO
Mode	l no.		BR-5810-F	BR-5810-R	BR-5810-RS	BR-R561	BR-4700	BR-R451
	1		Black	Black	Black	Silver	Series color	Black
Color	2		-	-	-	Black	-	Silver
Ту	pe		Direct mount type	Direct mount type	Direct mount type	NEW SUPER SLR Dual pivot	NEW SUPER SLR Dual pivot	SUPER SLR Dual Pivot
Reach	(mm)		-	-	-	49	51	57
	Stan	dard	R55C4	R55C4	R55C4	R55C3	R50T5	R50T2
Brake shoe	Optiona	l choice	R55C4 for Carbon rim, R55C4-A for Carbon rim (wider than 25mm rim)	R55C4 for Carbon rim, R55C4-A for Carbon rim (wider than 25mm rim)	R55C4 for Carbon rim, R55C4-A for Carbon rim (wider than 25mm rim)	R55C for Ceramic rim R55C3 for Carbon rim	R50T4	-
Compa	tibility		SLR EV	SLR EV	SLR EV	NEW SUPER SLR	NEW SUPER SLR	SUPER SLR
		10.5	-	-	-	х	Х	Х
		12.5	-	-	-	×	X	X
Assembly pivot nut	Front (mm)	18.0	-	-	-	X	X	Х
(mm)		27.0	-	-	-	X	Х	X
		32.0	-	-	-	-	х	-
	Rear (mm)	10.5	-	-		х	Х	Х
Cartridge shoe holder		Х	Х	Х	Х	-	-	
Tire guide bumpers			Х	Х	Х	-	-	-
QR		Х	-	Х	Х	Х	Х	
Shoe angle adjusting		Х	Х	X	х	Х	Х	
Spring tension	on adjusting	I	-	-		-	-	-
Maximun	tire size		28C	28C	28C	28C	28C	32C
Rim v	vidth		19-28 mm	19-28 mm	19-28 mm	19-26 mm	19-26 mm	19-26 mm
Cartridge shoe holder	Material		Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Fin	ish	Painted	Painted	Painted	Painted	-	-
C-arm	Mate	erial	Aluminum	Aluminum	Åluminum	Aluminum	Aluminum	Aluminum
	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Y-arm	Mate		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin		Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Gate	Mate			-	-	Aluminum	Aluminum	Aluminum
	Fin			-	-	Anodized	Anodized	Painted
QR	Mate		Resin	-	Aluminum	Zinc	Resin	Resin
	Fin	_	Painted	-	Painted	Plated	Painted	-
Titanium cable fixing bolt		It		-	-	-	-	-
Titanium pivot bolt			174	176 -/	- 475 -/	-	-	-
Average weight Note		Maximum tire size: 28 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)	"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature." 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)	Maximum tire size: 28	-	QR Wider Open Maximum tire size: 32 mm	

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Ser	ies		SORA	CLARIS	
Mode	el no.		BR-R3000	BR-R2000	
c.i.	1		Series color	Series color	
Color	2	2	-	-	
Ту	pe		NEW SUPER SLR Dual pivot	NEW SUPER SLR Dual pivot	
Reach	(mm)		51mm	51mm	
P. d. de	Stan	dard	R50T5	R50T5	
Brake shoe	Optiona	l choice	R50T4	R50T4	
Compa	tibility		NEW SUPER SLR	NEW SUPER SLR	
		10.5	Х	х	
		12.5	Х	х	
	Front (mm)	18.0	Х	х	
Assembly pivot nut (mm)	(,	27.0	Х	х	
		32.0	Х	х	
	Rear (mm)	10.5	х	х	
Cartridge s	hoe holder		-	-	
Tire guide	bumpers		-	-	
Q	R		Х	х	
Shoe angle	adjusting		Х	х	
Spring tension	on adjusting	 J	-	-	
Maximun	tire size		28 mm	28 mm	
Rim v	vidth		19-28 mm	19-26 mm	
	Mat	erial	-	4	
Cartridge shoe holder	Fin	ish	-	-	
	Mat	erial	Aluminum	Aluminum	
C-arm	Fin	ish	Painted	Painted	
.,	Mat	erial	Aluminum	Aluminum	
Y-arm	Fin	ish	Painted	Painted	
Cett	Mat	erial	Aluminum	Aluminum	
Gate	Fin	ish	Anodized	Anodized	
OP	Mat	erial	Resin	Resin	
QR	Fin	ish	-	-	
Titanium cab	le fixing bo	lt		-	
Titanium	pivot bolt		-	-	
Average	weight		-	-	
No	te				





BR

WH

WH

Brake (Hydraulic disc brake)

Seri	ies	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	SHIMANO	SHIMANO
Model no.		BR-R9170-F	BR-R9170-R	BR-R8070-F	BR-R8070-R	BR-RS805-F	BR-RS805-R
Brake	type	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
	1	Series color	Series color	Series color	Series color	Gray	Gray
Color	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake ho	ose (kit)	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR	SM-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
Brake nose color (kit)	2	-	-	-	-	-	-
ICE TECHN pad compat		Х	Х	Х	х	х	Х
	Standard 1	K02Ti-Resin	K02Ti-Resin	K02S-Resin	K02S-Resin	L02A-Resin	L02A-Resin
Dunks De J	Standard 2	L02A-Resin	L02A-Resin	L02A-Resin	L02A-Resin	L04C-Metal	L04C-Metal
Brake Pad	Option 1	K04Ti-Metal	K04Ti-Metal	K04S-Metal	K04S-Metal	K02S-Resin	K02S-Resin
	Option 2	L04C-Metal	L04C-Metal	L04C-Metal	L04C-Metal	K04S-Metal	K04S-Metal
	10mm mount	-	-	-	-	-	х
	15mm mount	-	-	-	-	_	х
	20mm mount	-	х		X	-	х
Fixing bolt spec for	25mm mount	-	х	-	х	-	х
rear mount	30mm mount	-	х	-	х	-	х
	35mm mount	-	-	·	-	-	х
[15.2mm	-	-	-	-	-	-
	18.7mm	-		_	-	-	-
Recommende	d brake lever	ST-R9180 ST-R9170 ST-R9120	ST-R9 <mark>180</mark> ST-R9170 ST-R9120	ST-R8070 ST-R8020	ST-R8070 ST-R8020	ST-R785 ST-RS685	ST-R785 ST-RS685
Recommende	d brake rotor	SM-RT900	SM-RT900	SM-RT800	SM-RT800	SM-RT900	SM-RT900
Oi	il	SHIMANO Min <mark>eral</mark>	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY	BLEEDING	Х	х	Х	Х	Х	Х
Mount (available for IS mount		Flat mount	Flat mount	Flat mount	Flat mount	Flat mount	Flat mount
Piston		2	2	2	2	2	2
Piston m	naterial	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
	MONO-BODY		-	-	-	-	-
Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodizing	Anodizing	Anodizing	Anodizing	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Caliper fixing bolt	Tool size	4 mm	4 mm	4 mm	4 mm	4 mm	4 mm
	Anti loosen method	Bolt fix pin/snap ring	Bolt fix pin	Bolt fix pin/snap ring	Bolt fix pin	Bolt fix pin/snap ring	Bolt fix pin
Pad m	ount	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average	weight	255 g/pair	255 g/pair	280 g/pair	280 g/pair	290 g/pair	290 g/pair
No	te						

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Brake (Hydraulic disc brake)

Brake type	RS405-F BR-RS405-R lic disc brake Hydraulic disc brake ark Grey Dark Grey BH59-J-SS SM-BH59-J-SS SM-BH59-JK-SS traight Straight Black Black X X 25-Resin K02S-Resin 24-Resin L02A-Resin
1	Dark Grey Dark Grey
Color 2	BH59-J-SS SM-BH59-J-SS SM-BH59-JK-SS SM-BH59-JK-SK SM-BH59-JK-SK SM-BH59-JK-SK SM-BH59
SM-BH59-J-SS SM-BH59-J-SS SM-BH59-J-SS SM-BH59-J-SS SM-BH59-J-SS SM-BH59-J-SS SM-BH59-JK-SS SM	BH59-J-SS SM-BH59-J-SS SM-BH59-JK-SS SM-BH59
Brake hose (kit)	BH59-J-SS SM-BH59-J-SS SM-BH59-JK-SS SM-BH59
SM-BH59-JK-SS SM-BH59-JK-S	#H59-JK-SS SM-BH59-JK-SS traight Straight Black Black
The second color (kit) The second color (k	Black Black -
Brake hose color (kit) 2	X X X 2\$-Resin K025-Resin
CE TECHNOLOGIES X	X X 25-Resin K025-Resin
Standard 1	2\$-Resin K02\$-Resin
Standard 2	L02A-Resin
Description Goza-Resin Goza-Resin Koza-Resin Koza-Resin Loza	2A-Resin L02A-Resin x - x
Option 1 G02A-Resin G01A-Resin K02S-Resin K02S-Resin L02 Option 2 G03S-Metal G03S Metal K04S-Metal K04S-Metal 10mm mount - - - x 15mm mount - - - x 20mm mount - - - x	- x - x
10mm mount x 15mm mount x 20mm mount x	- x
15mm mount x 20mm mount x	- x
20mm mount - x	
25	- x
75mm mount	
Fixing bolt spec for 25mm mount - X	- x
rear mount x	- x
35mm mount x	- x
15.2mm - x	
18.7mm x	
	r-RS405 ST-RS405 L-RS600 BL-RS600
	M-RT81 SM-RT81 nm/160 mm) (140 mm/160 mm)
Oil SHIMANO Mineral SHIMANO Mineral SHIMANO Mineral SHIMANO Mineral SHIMANO Mineral	NO Mineral SHIMANO Mineral
ONE WAY BLEEDING X X X X	X X
Mount type (available for IS mount with mount adapter) Post-mount Post-mount Flat mount Flat mount Flat mount	t mount Flat mount
Piston 2 2 2 2	2 2
Piston material Ceramic Ceramic Ceramic Geramic F	Resin Resin
MONO-BODY	
Caliper Material Aluminum Aluminum Aluminum Aluminum Aluminum Aluminum	uminum Aluminum
Finish Painted	ainted Painted
Material Steel Steel Steel Steel S	Steel Steel
Caliper fixing bolt Tool size 5 mm 5 mm 4 mm 4 mm 4	4 mm 4 mm
Anti loosen method Snap ring Snap ring Bolt fix pin/snap ring Bolt fix pin Bolt fix p	pin/snap ring Bolt fix pin
Pad mount Pad axle Pad axle Pad axle Pad axle Pad	ad axle Pad axle
Average weight 271 g/pair 271 g/pair 290 g/pair 290 g/pair	
Note	

ROAD

Brake (Mechanical disc brake)

Sei	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	BR-CX77	BR-R317	BR-RS305-F	BR-RS305-R
Brake	туре	Mechanical disc brake	Mechanical disc brake	Mechanical disc brake	Mechanical disc brake
c.l.	1	Glossy Gray	Silver	Black	Black
Color	2	-	Black	-	-
Compa	tibility	NEW SUPER SLR	NEW SUPER SLR	NEW SUPER SLR	NEW SUPER SLR
	NOLOGIES tible caliper	-	-	Х	Х
	Standard	G01A Resin	G01S Resin	K02S-R	K02S-R
D-4	Option 1	G03Ti	-	L02A-R	L02A-R
Pad	Option 2	-	-	-	-
	Option 3	-	-	-	-
	10 mm mount	-	-	-	х
	15 mm mount	-	-	-	х
Fixing bolt spec for	20 mm mount	-	-	-	Х
rear mount	25 mm mount	-	-	-	X
	30 mm mount	-	-	-	х
	35 mm mount	-	-	-	X
Recommende	d Brake Lever	ST-9001/ST-6800/ ST-6870/ST-6700/ ST-6770/ BL-R780	ST-3500/2400 BL-R2000	ST-3500	ST-3500
Recommende	d Brake Rotor	SM-RT81 (140mm/160mm)	SM-RT54 (160mm) SM-RT81 (140mm)	SM-RT54/56 (160mm) SM-RT81 (140mm/160mm)	SM-RT54/56 (160mm) SM-RT81 (140mm/160mm)
Moun	t Type	Post mount	Post mount	FLAT mount	FLAT mount
Pis	ton	1	1	1	1
Piston r	naterial	-	·	-	-
	MONO-BODY	-	-	-	-
Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel
Caliper fixing bolt	Tool size	5 mm	5 mm	4 mm	4 mm
	Anti loosen method	Snap ring	Snap ring	Bolt fix pin/snap ring	Bolt fix pin
Pad n	nount	Pad axle	Pad axle	Pad axle	Pad axle
Average	weight	159 g	-	-	-
No	ote	Cyclecross usage	SHIMANO logo		

BL

BK

RK

BR

DD

ED

rc

HВ

EH

WH

WH

Brake (V-BRAKE)

Ser	Series						
Mode	Model no.						
	1	Silver					
Color	2	Black					
	3	-					
Brake	Brake type						
	Standard 1	\$70T					
Brake shoe	Standard 2	-					
brake snoe	Option 1	M70T4					
	Option 2	-					
Cartridge s	hoe holder	-					
Arch siz	ze (mm)	90					
Engage time	X type	х					
Spacer type	Y type	-					
Compatible lead	pipe angle (deg.)	45/90/135					
Sleeve & Br	ushing axle	х					
V-arm/Caliper	Material	Aluminum					
v-arm/canper	Finish	Painted					
Fixing bolt length	16	x					
(mm)	25	х					
	Material	Steel					
Fixing bolt	Finish	Plated (Black)					
	Chamfered bolt	-					
Link	wire	-					
Reinfor	-						
Parall	-						
POWER MO	-						
Linear	х						
Threaded bra	х						
Average	weight						
No	SHIMANO logo						

Brake (Cantilever Brake)

Ser	Series							
Mode	Model no.							
Color	1	Silver						
Color	2							
Brake	type	Cantilever						
Rea	ach	-						
Brake shoe	R50T2							
Brake snoe	Optional choice	-						
Compa	NEW SUPER SLR							
Assembly piv	vot nut (mm)	-						
Cartridge s	hoe holder	-						
Tire guide	bumpers	-						
Q	R	-						
Toe-in	adjust	X						
Spring tensi	on adju <mark>sting</mark>	Х						
Cantridge above bolden	Material	-						
Cartridge shoe holder	Finish							
Cantilever	Material	Aluminum						
Cantilever	Anodized							
Average	weight	175 g						
No	ote	Cyclecross usage						

Brake Cable

Sei	ries	DURA-ACE	SHIMANO	SHIMANO
Mode	el no.	BC-9000	BC-R680	BC-1051
	High-te <mark>ch Gra</mark> y	х	Х	Х
	Black	х	Х	Х
	White	Х	Х	X
Color	Red	Х	Х	X
Color	Blue	-	Х	Х
	Lime-Green	-	Х	Х
	Orange	-	Х	Х
	Yellow	-	Х	Х
Brake	type	Caliper	Caliper	Caliper
Inner cable	Material	Stainless steel	Stainless steel	Steel
inner Cable	Coated	Polymer-coated cable	Polymer-coated cable	-
Outor casing	Material	Steel (Plated)	Steel (Plated)	Steel
Outer casing	Prelubricated casings	х	Х	-
No	ote			

BR

BR

ВС

RD

FD

НВ

FH

WH

WH

Rear Derailleur

Se	ries	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Mod	el 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
e.i.	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Rear	speeds	11	11	11	11	11	11
Compati	ble chain	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11
	Direct attachment (Conventional)	X*	Х	X*	X*	Х	х
Mount	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Cable a	adjuster	Х	Х	Х	Х	X	Х
Max. front	difference	16T	16T	16T	16T	16T	16T
Total c	apacity	35T	33T	35T	39T	33T	37T
Lauren	Max.	30T	28T	30T	34T	28T	32T
Low sprocket	Min.	25T	23T	25T	28T	23T	28T
T	Max.	14T	14T	14T	12T	14T	12T
Top sprocket	Min.	11T	11T	1ÎT	11T	11T	11T
Fluoric coated	l link bushings	4	4	4	4	4	4
	G pulley bearing	Х	Х	X	Х	х	х
	T pulley bearing	Х	Х	x	Х	х	х
Pulley	Teeth	11T	11T	11T	11T	11T	11T
runcy	Bolts material	SUS	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	Х	х	х	Х	х	х
	Material	Aluminum		-	-	-	-
Bracket	Finish	Anodized	-	-	-	-	-
	Hollow axle	х	х	х	Х	Х	х
B-axle	Material	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized		-	-	-	-
	Hollow axle	-		-	-	-	-
B-axle 2	Material	Aluminum	-	-	-	-	-
	Finish	Anodized	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Bracket body	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
P-axle	Finish	Plated	Plated	Plated	Plated	Plated	Plated
	Material	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
Plate body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer link	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner link	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
Outer plate	Finish	Clear Coated	Clear Coated	Painted	Painted	Painted	Painted
	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
Inner plate	Finish	Clear Coated	Clear Coated	Painted	Painted	Painted	Painted
Average	weight	158 g	158 g	200 g	210 g	195 g	207 g
	ote	*w/o bracket spec available	9	*w/o bracket spec available	*w/o bracket spec available	9	9

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Rear Derailleur

Series		105	105	105	105	105	TIAGRA
Mode	el no.	RD-5800-SS	RD-5800-GS	RD-5701-SS	RD-5701-GS	RD-5701-GS	RD-4700-SS
Pulley	r cage	SS	GS	SS	GS(Front double)	GS(Front triple)	SS
Calan	1	Black	Black	Black	Black	Black	Series color
Color	2	Silver	Silver	Silver	Silver	Silver	-
Rear s	peeds	11	11	10	10	10	10
Compatil	ble chain	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG 10-speed	HG 10-speed	HG 10-speed	HG-X Chain
	Direct attachment (Conventional)	Х	X	X	Х	Х	Х
Mount	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Cable a	djuster	X	Х	Х	х	Х	Х
Max. front	difference	16T	16T	16T	16T	22T	16T
Total ca	apacity	33T	37T	34T	40T	40T	33T
Low sprocket	Max.	28T	32T	30T	32T	30T	28T
	Min.	23T	28T	25T	27T	25T	25T
Top sprocket	Max.	14T	12T	14T	12T	14T	14T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated	link bushings	2	2	2	2	2	2
	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-		-	-	-
Pulley	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	Х	Х	х	х	Х	Х
Bracket	Material	-		-	-	-	-
brucket	Finish	-	-	-	-	-	-
	Hollow axle	-	-	-	-	-	-
B-axle	Material	Steel	Steel	Steel	Steel	Steel	Stainless steel
	Finish	Plated	Plated	Plated	Plated	Plated	-
	Hollow axle	-		-	-	-	-
B-axle 2	Material		-	-	-	-	-
	Finish		-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Diachet body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
I -unie	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Plate body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
. late body	Fin <mark>ish</mark>	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer link	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel
ci mik	Finish	Painted	Painted	Plated	Plated	Plated	Plated
Outer plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
Outer plate	Finish	Painted	Painted	Painted	Painted	Painted	Plated
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
iiiiei piate	Finish	Painted	Painted	Painted	Painted	Painted	Plated
Average	weight	234 g	250 g	230 g	243g	243 g	-
No	ote						

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Rear Derailleur

Series		TIAGRA	TIAGRA	TIAGRA	TIAGRA	TIAGRA	SORA
Model no.		RD-4700-GS	RD-4700-GS	RD-4601-SS	RD-4601-GS	RD-4601-GS	RD-R3000-SS
Pulle	y cage	GS(Front double)	GS(Front triple)	SS	GS(Front double)	GS(Front triple)	SS
	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
Rear	speeds	10	10	10	10	10	9
Compati	ble chain	HG-X Chain	HG-X Chain	HG 10-speed	HG 10-speed	HG 10-speed	HG 9-speed
-	Direct attachment (Conventional)	Х	X	Х	X	X	x
Mount	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Cable a	adjuster	Х	х	Х	Х	Х	х
Max. fron	t difference	16T	20T	16T	16T	22T	16T
Total o	apacity	41T	41T	34T	40T	40T	37T
	Max.	34T	32T	30T	32T	30T	32T
Low sprocket	Min.	28T	25T	25T	27T	25T	25T
	Max.	12T	12T	14T	12T	14T	14T
Top sprocket	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated	I I link bushings	2	2	2	2	2	2
	G pulley bearing	_	_			_	_
	T pulley bearing	_	_		-	_	_
	Teeth	11T	11T	111	11T	11T	11T
Pulley	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel
	Sunken type pulley bolt	X	X	x	X	X	-
	Material	-	-	-	-	-	-
Bracket	Finish	-		-	-	-	-
	Hollow axle	-	-	-	-	-	-
B-axle	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Stainless steel
	Finish	-	-	Plated	Plated	Plated	_
	Hollow axle			-	-	-	-
B-axle 2	Material		-	-	-	-	-
D UNIC 2	Finish			_	_	_	_
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Bracket body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
P-axle	Finish	Plated	Plated	Plated	Plated	Plated	Plated
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Resin
Plate body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer link	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Inner link	Finish	Plated	Plated	Plated	Plated	Plated	Painted
	Material	Steel	Steel	Steel		Steel	Steel
Outer plate					Steel		
	Finish	Plated	Plated	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Painted
Δverag	e weight	-	-	-	-	-	-

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Rear Derailleur

Series		SORA	SHIMANO	CLARIS	CLARIS	TOURNEY A070
Mod	el no.	RD-R3000-GS	RD-R350-GS	RD-R2000-SS	RD-R2000-GS	RD-A070
Pulle	y cage	GS	GS	SS	GS	Smart
Calan	1	Series color	Black	Series color	Series color	Series color
Color 2		-	-	-	-	-
Rear	speeds	9	9	8	8	7
Compati	ble chain	HG 9-speed	HG 9-speed	HG 8-speed	HG 8-speed	HG
	Direct attachment (Conventional)	Х	Х	Х	Х	Х
Mount	Riveted adapter (Road type)	-	-	-	-	х
	Riveted adapter (BMX-Track type)	-	-	-	-	-
Cable a	adjuster	Х	Х	Х	Х	Х
Max. front	difference	20T	20T	16T	20T	20T
Total c	apacity	43T	41T	37T	43T	37T
Low sprocket	Max.	34T	32T	32T	34T	28T
20.7 Sprocket	Min.	28T	25T	25T	28T	28T
Top sprocket	Max.	14T	14T	13T	13T	14T
тор эргоскес	Min.	11T	11T	11T	11T	11T
Fluoric coated	l link bushings	2	2	-	-	-
	G pulley bearing	-	-		-	-
	T pulley bearing	-	_		-	-
Pulley	Teeth	11T	11T	11T	11T	11/13T
•	Bolts material	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley bolt	-	Х	Х	Х	-
Bracket	Material	-	-	-	-	-
Didence	Finish	-	-	-	-	-
	Hollow axle	-	-	-	-	-
B-axle	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel
	Finish	-	-	Plated	Plated	MnPO4
	Hollow axle		-	-	-	-
B-axle 2	Material	-	-	-	-	-
	Finish		-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Resin
2. acree body	Finish	Painted	Painted	Painted	Painted	-
P-axle	Material	Steel	Steel	Steel	Steel	Steel
i -unic	Finish	Plated	Plated	Plated	Plated	Plated
Plate body	Material	Resin	Resin	Resin	Resin	Resin
ate bouy	Finish	Painted	Painted	Painted	Painted	-
Outer link	Material	Aluminum	Aluminum	Steel	Steel	Steel
Juter min	Finish	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Steel
er mik	Finish	Painted	Painted	Painted	Painted	Zinc plated
Outer plate	Material	Steel	Steel	Steel	Steel	Steel
oute, plate	Finish	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel
iiiiei piate	Finish	Painted	Painted	Painted	Painted	Painted
Average	e weight	-	-	-	-	-
Ne	ote		SHIMANO logo			
N			JilliviANO logo			

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Seri	ies		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	
1		Series color	Series color	Series color	Series color	Series color	Series color	
Color	2	!	-	-	-	-	-	-
	Fro	nt	2	2	2	2	2	2
Speeds	Re	ar	11	11	11	11	11	11
Compatib	ole chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11
	TOP S	WING	-	-	-	-	-	-
Action	Down	Swing	Х	Х	Х	Х	Х	Х
	a.	28.6	-	X (w/ S size adapter)	-	X (w/ S size adapter)	-	X (w/ S size adapter)
	Clamp Band	31.8	-	Х	-	Х	-	Х
Mount	(mm)	34.9	-	х	-	х	-	Х
ļ	Braze	d-On	Х	-	х	-	х	-
Cable a	adjust		х	х	-	4	х	Х
Top-Pull exclu	usive optior	1	-	-	-		-	-
Chain lin	ne (mm)		43.5	43.5	43.5	43.5	43.5	43.5
Chain sta	y angle		61-66	61-66	61-66	61-66	61-66	61-66
Top gea	r teeth		50-55T	50-55T	50-55T	50-55T	46-53T	46-53T
Total ca	pacity		16T	16T	16T	16T	16T	16T
Applicable Top-Mic	d tooth diffe	erence	-	-	_	-	-	-
Angled clamp	band desig	n	-	-		-	-	-
Multi-Bearing	constructio	n	2	2		-	-	-
Link bu	shings		8	8	7	7	8	8
	Mate	erial	-	Aluminum	-	Aluminum	-	Aluminum
Front clamp band	Fin	ish	-	Painted	-	Anodized	-	Painted
Rear clamp band,	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Anodized	Anodized	Painted	Painted
0 . ". !	Mate	erial	CFRF	CFRF	Aluminum	Aluminum	GFRP	GFRP
Outer link -	Fin	ish	Plated/Painted	Plated/Painted	Anodized	Anodized	Painted	Painted
Inna Pol	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner link	Fin	ish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Chain cuide	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
Chain guide Finish		Nickel plated	Nickel plated	Nickel plated	Nickel plated	Chrome plated	Chrome plated	
Cable fiving half	Mate	erial	Stainless steel					
Cable fixing bolt Finish		-	-	-	-	-	-	
Stroke Adjusting	Mate	erial	Steel	Steel	Aluminum	Aluminum	Stainless steel	Stainless steel
Screw Finish		Black	Black	Anodized	Anodized	Black	Black	
Average (Band type: L size, D		w/ bolt)	70 g	85 g	66 g	78 g	92 g	106 g
No	te							

To To To To To To To To	Ser	ies		ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Color	Model no.		FD-6800-F	FD-6800-B	FD-6700-F	FD-6700-B	FD-6703-F	FD-6703-B	
Profession Pr			Series color	Series color	Silver	Silver	Silver	Silver	
Speeds	Color		-	-	Glossy Gray	Glossy Gray	Glossy Gray	Glossy Gray	
Rest 1 10 10 10 10 10 10 10	Front		2	2	2	2	3	3	
Action TOP > Wind Fig. 11	Speeds	Re	ar	11	11	10	10	10	10
Action Dows Maria Za.6 -	Compatil	ole chain				HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed
Mount Mou		TOP S	WING	-	-	-	-	-	-
Mount Clamp Band Mount Moun	Action	Down	Swing	Х	Х	Х	Х	Х	Х
Mounthead Martial Aluminum			28.6	-	X (w/ S size adapter)	-	X (w/ S size adapter)	-	X (w/ S size adapter)
Mount Mou			31.8	-	-	-	-	-	-
Cable adjust	Mount	(mm)	34.9	-		-		-	
Top-Pull exclusive option		Braze	d-On	х	-	Х	-	X	-
Top-Pull exclusive option	Cable	adjust		-	-	-	4	7.	-
Chain stay angle 61-66 61-66 61-66 61-66 63-66 63-66 63-66 Top gear teeth 46-53T 46-53T 50-56T 50-56T 52T 52T Total capacity 16T 16T 16T 16T 16T 16T Applicable Top-Mild tooth difference - - - - 13T 13T Angled clamp band design - - - - - - - Multi-Bearing construction -	Top-Pull excl	usive optior	1	-	-	-		-	-
Top gear teeth	Chain lir	ne (mm)		43.5	43.5	43.5	43.5	45	45
Total capacity 16T 13T	Chain sta	ay angle		61-66	61-66	61-66	61-66	63-66	63-66
Applicable Top-Mid tooth difference	Top gea			46-53T	46-53T	50-56T	50-56T	52T	52T
Angled clamp band design -	Total ca	apacity		16T	16T	16T	16T	16T	16T
Multi-Bearing construction	Applicable Top-Mi	d tooth diffe	erence	-	-		·	13T	13T
Link bushings 7 7 7 7 7 7 7 7 7	Angled clamp	band desig	n	-	-		-	-	-
Front clamp band Finish - Painted -	Multi-Bearing	constructio	n	-	-		-	-	-
Front clamp band, Bear clamp band, base bracket Rear clamp band, base bracket Finish Painted Paint	Link bu	shings		7	7	7	7	7	7
Rear clamp band, base bracket Finish Painted		Mate	erial	-	Aluminum	-	Aluminum	-	Aluminum
Painted Pain	Front clamp band	Finish		-	Painted	-	Painted	-	Painted
base bracketFinishPaintedPaintedPaintedPaintedPaintedPaintedOuter linkMaterialAluminumAluminumAluminumAluminumAluminumAluminumAluminumInner linkMaterialAluminumAluminumAluminumAluminumAluminumFinishPaintedPaintedPaintedPaintedPaintedChain guideFinishChrome platedChrome platedChrome platedChrome platedChirome platedChrome platedChrome platedChrome platedChrome platedCable fixing boltMaterialStainless steelStainless steelStainless steelStainless steelStroke Adjusting ScrewMaterialStainless steelStainless steelStainless steelStainless steelStroke ScrewFinishAverage weight (Band type: L size, Direct type; w/ bolt)89 g104 g89 g104 g114 g131 g	Rear clamp band.	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer linkFinishPaintedPaintedPaintedPaintedPaintedPaintedPaintedPaintedPaintedInner linkMaterialAluminum <t< td=""><td></td><td>Fin</td><td>ish</td><td>Painted</td><td>Painted</td><td>Painted</td><td>Painted</td><td>Painted</td><td>Painted</td></t<>		Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Finish Painted Paint		Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner link Finish Painted Pain	Outer link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Finish Painted Steel Steel Steel Steel Steel Steel Steel Painted Paint		Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Cable fixing bolt Cable fixing bolt Stroke Adjusting Screw Finish Average weight (Band type: L size, Direct type: w/ bolt) Chrome plated Stainless steel Inner link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted	
Finish Chrome plated Chrome pl	el di di	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
Cable fixing bolt Finish Material Stainless steel	Chain guide	Fin	ish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Stroke Adjusting Screw Material Stainless steel Stainless ste	California (Color	Mate	erial	Stainless steel	Stainless steel		Stainless steel		
Screw Finish - - - - - - - - -			-	-	-	-	-	-	
Screw Finish -	Stroke Adjusting	Mate	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
(Band type: L size, Direct type: w/ bolt) 89 9 104 9 114 9 131 9		Fin	ish		-	-	-	-	-
Note			w/ bolt)	89 g	104 g	89 g	104 g	114 g	131 g
	No	te							

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Color - Speeds - Compatible	1 2 Fro	nt	FD-CX70-F-T Gray - 2	FD-CX70-F-D Gray	FD-CX70-B-T Gray	FD-CX70-B-D Gray	FD-5801-F	FD-5801-B
Speeds	2 Fro	nt	-		Gray	Grav		
Speeds	Fro Rea	nt		-		l diay	Black	Black
	Rea		2		-	-	Silver	Silver
		ar		2	2	2	2	2
Compatibl	e chain		10	10	10	10	11	11
			HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11
	TOP SV	WING	-	-	-	-	-	-
Action	Down 9	Swing	Х	Х	Х	Х	Х	Х
		28.6	-	-	X (w/ S size adapter)	X (w/ S size adapter)	-	X (w/ S size adapter)
	Clamp Band	31.8	-	-	Х	Х	-	Х
Mount	(mm)	34.9	-	-	Х	х	-	Х
	Braze	d-On	Х	Х	-	-	X	-
Cable ac	djust		-	-	-	<u></u>	х	Х
Top-Pull exclus	sive option		Х	-	Х	-		-
Chain line	e (mm)		43.5	43.5	43.5	43.5	43.5	43.5
Chain stay	y angle		63-66	63-66	63-66	63-66	61-66	61-66
Top gear	teeth		46-52T	46-52T	46-52T	46-52T	46-53T	46-53T
Total cap	pacity		16T	16T	16T	16T	16T	16T
Applicable Top-Mid tooth difference		-	-			-	-	
Angled clamp b			-	-		-	-	-
Multi-Bearing c	construction	n	-	-		-	-	-
Link busl	hings		7	7	7	7	7	7
	Mate	erial	-	-	Aluminum	Aluminum	-	Aluminum
Front clamp band	Fini	sh	-	-	Painted	Painted	-	Painted
Rear clamp band,	Mate	rial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fini	sh	Painted	Painted	Painted	Painted	Painted	Painted
	Mate	rial	Aluminum	Aluminum	Aluminum	Aluminum	GFRP	GFRP
Outer link	Fini	sh	Painted	Painted	Painted	Painted	Painted	Painted
	Mate	rial	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
Inner link	Fini	sh	Painted	Painted	Painted	Painted	Plating	Plating
	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide	Fini	sh	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
	Mate		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cable fixing bolt	Fini	sh		-	-	-	-	-
Stroke Adjusting	Mate	rial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Screw	Fini	sh	-	-	-	-	Black	Black
Average v (Band type: L size, Dir		v/ bolt)	92 g	87 g	108 g	103 g	98 g	112 g
Note	e							

Ser	ies		105	105	105	105	105	105
Model no.		FD-5800-F	FD-5800-B	FD-5700-F	FD-5700-B	FD-5703-F	FD-5703-B	
	1	l	Black	Black	Black	Black	Black	Black
Color	2	2	Silver	Silver	Silver	Silver	Silver	Silver
	Fro	ont	2	2	2	2	3	3
Speeds	Re	ar	11	11	10	10	10	10
Compati	ble chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed
	TOP S	WING	-	-	-	-	-	-
Action	Down	Swing	Х	Х	Х	Х	Х	х
	C I	28.6	-	X*	-	X (w/ S size adapter)	-	X (w/ S size adapter)
	Clamp Band	31.8	-	Х	-	Х	-	Х
Mount	(mm)	34.9	-	Х	-	Х	-	х
	Braze	d-On	Х	-	Х	-	Х	-
Cable	adjust		-	-	-	4	-	-
Top-Pull excl	usive option	n	-	-	-	-	-	-
Chain li	ne (mm)		43.5	43.5	43.5	43.5	45	45
Chain st	ay angle		61-66	61-66	61-66	61-66	63-66	63-66
Top gear teeth			46-53T	46-53T	50-56T	50-56T	50T	50T
Total capacity		16T	16T	16T	16T	20T	20T	
Applicable Top-Mid tooth difference		-	-		-	11T	11T	
Angled clamp band design		-	-		-	-	-	
Multi-Bearing	construction	n	-	-		-	-	-
Link bu	 Ishings		8	8	-	-	-	-
	Mate	erial	-	Aluminum	-	Aluminum	-	Aluminum
Front clamp band	Fin	ish	-	Painted	-	Painted	-	Painted
Rear clamp band,	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chair	Mat	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide	Fin	ish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cabla fining bal	Mat	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cable fixing bolt	Fin	ish	-	-	-	-	-	-
Stroke Adjusting	Mate	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Screw	Fin	ish	-	-	-	-	-	-
Average (Band type: L size, I	weight Direct type:	w/ bolt)	89 g	104 g	89 g	105 g	114 g	132 g
No.	te			* w/Adapter				

ROAD

Front Derailleur

Sei	ries		TIAGRA	TIAGRA	TIAGRA	TIAGRA	TIAGRA	TIAGRA
Mode	el no.		FD-4700-F	FD-4700-B	FD-4703-F	FD-4703-B	FD-4600-F	FD-4600-B
	1		Series color	Series color	Series color	Series color	Series color	Series color
Color	2	!	-	-	-	-	-	-
	Fro	nt	2	2	3	3	2	2
Speeds Rear		10	10	10	10	10	10	
Compati	ble chain		HG-X chain/ CN-HG500	HG-X chain/ CN-HG500	HG-X chain/ CN-HG500	HG-X chain/ CN-HG500	HG 10-speed	HG 10-speed
	TOP S	WING	-	-	-	-	-	-
Action	Down	Swing	Х	Х	Х	Х	Х	х
	a.	28.6	-	X*	-	X*	-	X (w/ S size adapter)
	Clamp Band	31.8	-	Х	-	Х	-	Х
Mount	(mm)	34.9	-	Х	-	X	-	Х
	Braze	d-On	Х	-	х	-	X	-
Cable	adjust		-	-	-	4	-	-
Top-Pull exc	usive optior	1	-	-	-	-	- /	-
Chain li	ne (mm)		43.5	43.5	45	45	43.5	43.5
Chain st	ay angle		61-66	61-66	63-66	63-66	61-66	61-66
Top gea	ar teeth		46-52T	46-52T	50T	50T	50-56T	50-56T
Total capacity		16T	16T	20T	20T	16T	16T	
Applicable Top-Mid tooth difference		-	-	11T	11T	-	-	
Angled clamp band design		-	_		-	-	-	
Multi-Bearing	constructio	n	-	-		-	-	-
Link bu	ushings		-	-		-	-	-
	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	-	Aluminum
Front clamp band	Fin	ish	Painted	Painted	Painted	Painted	-	Painted
Rear clamp band,	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide	Fin	ish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
	Mate	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cable fixing bolt	Fin	ish	-	-	-	-	-	-
Stroke Adjusting	Mate	erial	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Screw	Fin			-	-	-	-	-
Average (Band type: L size, I	weight		-	-	-	-	-	-
No	ote			* 28.6mm Clamp band: 31.8mm w/ Adapter		* 28.6mm Clamp band: 31.8mm w/ Adapter		

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Seri	es		TIAGRA	TIAGRA	SORA	SORA	SORA	SORA
Model no.		FD-4603-F	FD-4603-B	FD-R3000-F	FD-R3000-B	FD-R3030-F	FD-R3030-B	
6.1	1		Series color	Series color	Series color	Series color	Series color	Series color
Color	2	!	-	-	-	-	-	-
eli	Fro	nt	3	3	2	2	3	3
Speeds	Re	ar	10	10	9speed	9speed	9speed	9speed
Compatib	le chain		HG 10-speed	HG 10-speed	-	-	-	-
Author	TOP S	WING	-	-	-	-	-	-
Action	Down	Swing	Х	х	Х	Х	Х	Х
	Clamp	28.6	-	X (w/ S size adapter)	-	X (Adapter)	-	X (Adapter)
	Band	31.8	-	х	-	X (Adapter)	-	X (Adapter)
Mount	(mm)	34.9	-	Х	-	Х	-	Х
	Braze	d-On	Х	-	Х	-	Х	-
Cable a	ndjust		-	-	-	-		-
Top-Pull exclu	usive option	1	-	-	-		-	-
Chain lin	e (mm)		45	45	43.5	43.5	45	45
Chain sta	y angle		63-66	63-66	61-66	61-66	63-66	63-66
Top gea	r teeth		50T	50T	46-52T	46-52 T	50T	50T
Total capacity		20T	20T	16T	16T	20T	20T	
Applicable Top-Mid tooth difference		11T	11T	-		11T	11T	
Angled clamp band design		n	-	-	х	Х	Х	Х
Multi-Bearing	constructio	n	-	-	-	-	-	-
Link bu	shings		-	-	-	-	-	-
F	Mate	erial	-	Aluminum		Aluminum	-	Aluminum
Front clamp band	Fin	ish	-	Painted	-	Painted	-	Painted
Rear clamp band,	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outerlink	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide	Fin	ish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing bolt	Mate	erial	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
Cable fixing boil	Fin	ish	-	-	Ni plated	Ni plated	Ni plated	Ni plated
Stroke Adjusting	Mate	erial	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
Screw	Fin	ish		-	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average (Band type: L size, D	weight irect type: v	w/ bolt)	-	-	-	-	-	-
No	te							

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Seri	ies		SORA	SORA	SHIMANO	CLARIS	CLARIS	CLARIS
Model no.		FD-3500-F	FD-3500-B	FD-R353-B	FD-R2000-F	FD-R2000-B	FD-R2030-F	
Calan	1		Series color	Series color	Black	Series color	Series color	Series color
Color	2	!	-	-	-	-	-	-
Canada	Fro	nt	2	2	3	2	2	3
Speeds	Re	ar	9	9	9	8	8	8
Compatib	ole chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 8-speed	HG 8-speed	HG 8-speed
A -4!	TOP S	WING	-	-	-	-	-	-
Action	Down	Swing	Х	Х	Х	Х	Х	Х
	Clamp	28.6	-	X (w/ S size adapter)	-	-	X (Adapter)	-
Manus	Band	31.8	-	х	-	-	X (Adapter)	-
Mount	(mm)	34.9	-	х	Х	-	х	-
	Braze	d-On	Х	-	-	Х		Х
Cable a	adjust		-	-	-	-	•	-
Top-Pull exclu	usive option	1	-	-	-			<u>-</u>
Chain lin	ie (mm)		43.5	43.5	45	43.5	43.5	45
Chain sta	y angle		61-66	61-66	63-66	61-66	61-66	63-66
Top gea	r teeth		46-52T	46-52T	50T	46-52 T	46- 52 T	50T
Total ca	pacity		16T	16T	20T	16T	16T	20T
Applicable Top-Mid tooth difference		-	-	11T		-	11T	
Angled clamp	band desig	n	-	-	-	Х	Х	Х
Multi-Bearing	constructio	n	-	-	-	-	-	-
Link bu	shings		-	-	-	-	-	-
Front alama hand	Mate	erial	-	Aluminum	Aluminum	-	Steel	-
Front clamp band	Fin	ish	-	Painted	Painted	-	Painted	-
Rear clamp band,	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Mate	erial	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
inner link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide -	Fin	ish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing bolt	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
Cable lixing bolt	Fin	ish	Ni plated	Ni plated	Ni plated	Ni Plated	Ni Plated	Ni Plated
Stroke Adjusting	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
Screw	Fin	ish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average (Band type: L size, D		w/ bolt)		-	-	-	-	-
					SHIMANO logo			

Ser	ies		CLARIS	CLARIS	CLARIS	TOURNEY	TOURNEY	A050
Model no.		FD-R2030-B	FD-2400-F	FD-2400-B	FD-A070-A	FD-A073	FD-A050	
c.l.	1		Series color	Series color	Series color	Series color	Series color	Series color
Color	2	!	-	-	-	-	-	-
eti	Fro	nt	3	2	2	2	3	2 (Friction)
Speeds	Re	ar	8	8	8	7	7	7
Compatib	ole chain		HG 8-speed	HG 8-speed	HG 8-speed	HG	HG	HG
	TOP S	WING	-	-	-	-	-	-
Action	Down	Swing	Х	Х	х	Х	Х	Х
	Clamp	28.6	X (Adapter)	-	X (w/ S size adapter)	X (w/ S size adapter)	X (w/ S size adapter)	Х
	Clamp Band	31.8	X (Adapter)	-	х	X (w/ M size adapter)	X (w/ M size adapter)	Х
Mount	(mm)	34.9	Х	-	х	Х	х	-
	Braze	d-On		х	-	-	-	-
Cable a	adjust		-	-	-	-		-
Top-Pull excl	usive option	1	-	-	-	A	-	-
Chain lir	ne (mm)		45	43.5	43.5	43.5	45	43.5
Chain sta	ay angle		63-66	61-66	61-66	61-66	63-66	61-66
Top gea	r teeth		50T	46-52T	46-52T	50T	50T	53T
Total capacity		20T	16T	16T	16T	20T	16T	
Applicable Top-Mid tooth difference		11T	-	-		11T	16T	
Angled clamp band design		Х	Х	X	Х	Х	-	
Multi-Bearing	constructio	n	-	-	-	-	-	-
Link bu	shings		-	-		-	-	-
	Mate	erial	Steel	Aluminum	Steel	Steel	Steel	Steel
Front clamp band	Fini	ish	Painted	Painted	Painted	Painted	Painted	Zinc plated
Rear clamp band,	Mate	erial	Aluminum	-	Aluminum	Aluminum	Aluminum	Steel
base bracket	Fini	ish	Painted	-	Painted	Painted	Painted	Zinc plated
	Mate	erial	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel+Resin
Outer link	Fin	ish	Painted	Painted	Painted	Painted	Painted	Zinc plated
	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
Inner link	Fini	ish	Painted	Painted	Painted	Painted	Painted	Zinc plated
	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
Chain guide	Fini	ish	Chrome plated	Chrome plated	Chrome plated	Painted	Painted	Chrome plated
	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
Cable fixing bolt	Fin	ish	Ni Plated	Ni plated	Ni plated	Ni plated	Ni plated	Zinc plated
Stroke Adjusting	Mate	erial	Steel	Steel	Steel	Steel	Steel	Steel
Screw	Fini	ish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average (Band type: L size, D		w/ bolt)		-	-	-	-	-
(Band type: L size, Direct type: w/ bolt) Note								

Crankset

Ser	ries	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	105
Mode	el no.	FC-R9100	FC-R9100-P	FC-9000	FC-R8000	FC-6800	FC-5800
	1	Series color	Series color	Series color	Series color	Series color	Black
Color	2	-	-	-	-	-	Silver
Rears	peeds	11	11	11	11	11	11
		HG-EV 11-speed/	HG-EV 11-speed/	HG-EV 11-speed/	HG-EV 11-speed/	HG-EV 11-speed/	HG-EV 11-speed
Compati	ble chain	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11
Chain li	ne (mm)	43.5	43.5	43.5	43.5	43.5	43.5
P.C.D. left /		110	110	110	110	110	110
Gear ar		4	4	4	4	4	4
Geal all	ilis (pcs)	4	4	55-42T	4	4	4
		55-42T		54-42T	50-34T	50-34T	
Chain sing a	ambination	54-42T	53-39T 52-36T	53-39T	52-36T	52-36T	53-39T 52-36T
Chain ring o	compination	53-39T 52-36T	52-361 50-34T	52-38T	53-39T	53-39T	52-361 50-34T
		50-34T	30 341	52-36T	46-36T	46-36T	30 341
				50-34T	116	110.6	
Q-ta	ictor	146	146	146	146	146.6	146
	165	Х	X (only crankarm spec.)	X	X	X	X
	167.5	Х	X (only crankarm spec.)	Х	-		-
Curally same last with	170	Х	X	X	X	X	X
Crank arm length (mm)	172.5	X	Х	X	X	X	X
\ <i>\</i>	175	Х	Х	Х	X	Х	Х
	177.5	Х	X (only crankarm spec.)	Х	-	-	-
	180	Х	X (only crankarm spec.)	X	-	-	-
	With chain guard	-	-	-		-	_
Optional chain guard	Without chain guard	X	X	X	X	X	X
	Without chain guard	X	X	X	X	X	X
Crank arm fixing bolt		X -		X		X -	X
	Without		- V		-		
HOLLOV		Х	Х	Х	Х	Х	X
2-PIECE C	RANKSET	-	-	-	-	-	-
HOLLOWTEC	H crank arm	Х	X	X	X	X	X
OCTA	ALINK	-	_		-	-	-
HOLLO	WCLIDE	х	X	v	Х	Х	_
HOLLO	WGLIDE	^	^	Х	- (46-36T)	- (46-36T)	<u>-</u>
	Outboard	X	Х	Х	Х	X	X
Compatible BB type	OCTALINK	- 4		-	-	-	-
	Square	-	-	-	-	-	-
	Threaded (normal)	BB-R9100	BB-R9100	BB-R9100	SM-BBR60	SM-BBR60	SM-BBR60
Recommended BB	Pressfit	SM-BB92-41B	SM-BB92-41B	SM-BB92-41B	SM-BB72-41B	SM-BB72-41B	SM-BB72-41B
Axle length of BB-UN		5 5552 115	5 5552 115	3111 2232 112	3.11. 23.72 11.5	3 33.72 113	3 3372 113
/ ES (mm)	Threaded (normal)		•	-	-	-	-
Threaded BB shell	68	Х	Х	Х	Х	Х	Х
width (mm)	70	X	X	X	X	Х	X
,	Material	Aluminum	Aluminum		Aluminum	Aluminum	Aluminum
Crank arm				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	-	-	-	-	-	-
Spiaci aiiii	Finish		-	-	-	-	-
Cnidor arm arms	Material	-	-	-	-	-	-
Spider arm cover	Finish	-	-	-	-	-	-
	Matarial	Aluminum/CERR	Aluminum/ CERR	Aluminum/CFRP or	Aluminum/ CFRP	Aluminum/ CFRP	Aluminum/CERR
Outer ring	Ma <mark>terial</mark>	Aluminum/ CFRP	Aluminum/ CFRP	GFRP	Aluminum (46-36T)	Aluminum (46-36T)	Aluminum/GFRP
	Fini <mark>sh</mark>	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	-	-	-	-	-	-
Middle ring	Finish	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner ring	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Outer / middle ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Stainless steel
fixing bolt	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
Inner ring fixing bolt	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
crank fixing	bolt included	Х	Х	Х	Х	Х	Х
	e weight w/o BB)	621 g (53-39T) 609 g (50-34T)	691 g (53-39T) 679 g (50-34T)	639 g (55-42T) 632 g (54-42T) 618 g (53-39T) 622 g (52-38T) 618 g (52-36T) 610 g (50-34T)	690 g (53-39T) 681 g (52-36T) 674 g (50-34T) 668 g (46-36T)	696 g (53-39T) 689 g (52-36T) 681 g (50-34T) 677 g (46-36T)	776 g (53-39T) 773 g (52-36T) 757 g (50-34T)
No	ote		With power meter Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh	-	-		

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Ser	ies	SHIMANO	SHIMANO	DURA-ACE	ULTEGRA	ULTEGRA	105
Model no.		FC-RS510	FC-RS500	FC-7710	FC-6703	FC-6750	FC-5750
6.1	1	Black	Black	Series color	Glossy Gray	Glossy Gray	Black
Color	2	-	Silver	-	-	-	-
Rear s	peeds	11	11	-	10	10	10
Compatil	ole chain	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	1/2"X1/8 / 1/2"X3/32"	HG 10-speed	HG 10-speed	HG 10-speed
Chain li	ne (mm)	43.5	43.5	42.5	45	43.5	43.5
P.C.D. left /	right (mm)	110	110	144	130 / 92	110	110
Gear ari	ns (pcs)	4	5	5	5	5	5
Chain ring o	ombination	50-34T	52-36T 46-36T	45T>>55T (1/2"X1/8"/ 1/2"X3/32")	52-39-30T	50-34T	50-34T
Q-fa	ctor	150	150.3	136.3	154.8	146	146
	165	Х	Х	Х	Х	Х	Х
	167.5	-	-	Х	-	-	-
	170	Х	Х	Х	Х	X	Х
Crank arm length (mm)	172.5	Х	Х	Х	Х	Х	Х
()	175	Х	Х	Х	Х	Х	Х
	177.5	-	-	-	-		-
	180	-	-	-	-	-	-
	With chain guard	-	-	-	-		-
Optional chain guard	Without chain guard	Х	Х	Х	Х	Х	Х
	With	Х	Х	X	Х	Х	Х
Crank arm fixing bolt	Without	-	-	-	-	-	-
HOLLOV	/TECH II	-	<u>-</u>	х	Х	Х	Х
2-PIECE C	RANKSET	Х	Х	1	-	-	-
HOLLOWTEC		-	-	Х	х	Х	Х
OCTA	LINK	-	-	X	-	-	-
HOLLO		-	-	-	Х	Х	-
	Outboard	Х	Х	-	Х	X	Х
Compatible BB type	OCTALINK			Х	-		_
	Square	-			-	_	-
	Threaded (normal)	BB-RS500	BB-RS500	BB-7710 / 7700	SM-BB6700	SM-BB6700	SM-BB5700
Recommended BB	Pressfit	BB-RS500-PB	SM-BB72-41B	-	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B
Axle length of BB-UN / ES (mm)	Threaded (normal)			109.5	-	-	-
Threaded BB shell	68	х	X	Х	Х	Х	Х
width (mm)	70	X	Х	X	Х	Х	Х
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank arm	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Steel	Steel	-	Steel	Steel	Steel
Crank axle	Finish	Plated	Plated	-	Plated	Plated	Plated
	Material	-	-	-	-	-	-
Spider arm	Finish	-	-	-	-	-	-
	Material	-	_	_	-	-	-
Spider arm cover	Finish	-	-	-	-	-	-
	Material	Aluminum/Resin	Aluminum	Aluminum	Aluminum/CFRP	Aluminum/CFRP	Aluminum
Outer ring	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	-	-	-	Aluminum	-	-
Middle ring	Finish	_	-	_	Anodized	_	_
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Inner ring	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
0.1(Material	Stainless steel	Stainless steel	Stainless steel	Alluminum	Alluminum	Stainless steel
Outer / middle ring fixing bolt	Finish	-	Juniless steel		Anodized	Anodized	
		-	-	-	Aluminum	Anodized -	-
Inner ring fixing bolt	Material Finish	-	-	-	Anodized	-	-
crank fiving		X	X	X	X	X	X
crank fixing l Average (170mm,	weight	908 g (50-34T)	X 823 g (52-36T) 798 g (50-34T) 790 g (46-36T)	82 g (46T, 1 / 2"x 1 / 8")	803 g	699 g	716 g
No	te		<u> </u>				
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Ser	ies	105	SHIMANO	TIAGRA	TIAGRA	SHIMANO	SHIMANO
Mode		FC-5703	FC-CX50	FC-4700	FC-4703	FC-R460	FC-RS400
Wode							
Color	2	Black -	Silver Black	Series color	Series color	Black -	Black
Page		10	10	10	10	10	10
Rear s Compatik		HG 10-speed	HG 10-speed	Super Narrow HG	Super Narrow HG	HG-X 10-speed	HG-X 10speed
		45	42.5	10-speed	10-speed	42.5	42.5
Chain lir	` ,	45	43.5	43.5	45	43.5	43.5
P.C.D. left /	•	130 / 74	110	110	110/74	110	110
Gear arr	ns (pcs)	5	5	4 52-36T	4	5 48-34T	5
Chain ring c	ombination	50-39-30T	46-36T	50-34T	50-39-30T	46-34T	50-34T
Q-fa	ctor	154.76	150	150	158.8	149.9	150.3
	165	Х	-	Х	Х	Х	-
	167.5	-	-	-	-	-	-
[170	Х	X	Х	х	X	Х
Crank arm length (mm)	172.5	Х	X	Х	Х	-	-
(,	175	Х	X	Х	X	X	Х
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	- 1	-	-
Optional Chain guard	Without chain guard	Х	Х	X	Х	Х	Х
C	With	Х	Х	X	Х	Х	-
Crank arm fixing bolt	Without	-	-	-	-	-	-
HOLLOW	/TECH II	Х	-	-	-	-	-
2-PIECE CI	RANKSET	-	Х	Х	Х	Х	Х
HOLLOWTEC	H crank arm	Х	-		-	-	-
OCTA	LINK	-		-	-	-	-
HOLLOV	NGLIDE	-			-	-	-
	Outboard	Х	Х	Х	Х	Х	Х
Compatible BB type	OCTALINK	-	-	-	-	-	-
İ	Square	-	-	-	-	-	-
	Threaded (normal)	SM-BB5700	BB-RS500	BB-RS500	BB-RS500	BB-RS500	BB-RS500
Recommended BB	Pressfit	SM-BB71-41B	SM-BB71-41B	BB-RS500-PB	BB-RS500-PB	SM-BB71-41B	BB-RS500-PB
Axle length of BB-UN / ES (mm)	Threaded (normal)			-	-	-	-
Threaded BB shell	68	Х	X	Х	Х	Х	Х
width (mm)	70	Х	Х	Х	Х	Х	Х
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank arm	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	-
Crank axle	Finish	Plated	Plated	Plated	Plated	Plated	-
	Material	-	-	-	-	-	-
Spider arm	Finish	-	-	-	-	-	-
	Material	-	-	-	-	-	-
Spider arm cover	Finish	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum/GFRP	Aluminum/GFRP	Aluminum	Aluminum
Outer ring	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Aluminum	-	-	Aluminum	-	-
Middle ring	Finish	Anodized	-	-	Anodized	-	-
	Material	Aluminum	Aluminum	Aluminum	Steel	Aluminum	Aluminum
Inner ring	Finish	Anodized	Anodized	Anodized	Plated	Anodized	Anodized
Outer / middle ring	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	SUS
fixing bolt	Finish	-	-	-	-	-	-
	Material	Stainless steel	-	-	Stainless steel	-	-
Inner ring fixing bolt	Finish	-	-	-	-	-	-
crank fixing b		Х	Х	Х	Х	Х	X
Average							
(170mm,		831 g	798 g	-	-	-	-
	te					SHIMANO logo	

Ser	ies	SORA	SORA	SORA	SORA	SHIMANO	SHIMANO
Mode	el no.	FC-R3030	FC-R3030-CG	FC-R3000	FC-R3000-CG	FC-R350	FC-R345
	1	Series color	Series color	Series color	Series color	Black	Silver
Color	2	-	-	-	-	-	Black
Rear s	peeds	9	9	9	9	9	9
Compati	ble chain	HG 9-speed	HG 9-speed				
Chain li	ne (mm)	43.5	43.5	43.5	43.5	43.5	43.5
P.C.D. left /	right (mm)	110/74	110/74	110	110	130	110
Gear ar	ns (pcs)	4	5	4	5	5	5
Chain ring o	ombination	50-39-30T	50-39-30T	50-34T	50-34T	52-39T	50-34T
Q-fa	ctor	158.8	158.8	150	150	150.3	152.2
	165	Х	Х	Х	Х	X	-
	167.5	-	-	-	-	-	-
	170	Х	Х	Х	Х	Х	Х
Crank arm length (mm)	172.5	-	-	-	,-	-	-
(,	175	Х	Х	Х	х	Х	Х
	177.5	-	-	-	-	-	-
	180	-	-	-	-		-
0-4:	With chain guard	-	Х	-	Х	Х	Х
Optional chain guard	Without chain guard	Х	-	х	·	Х	Х
6 1 6	With	Х	Х	X	X	Х	Х
Crank arm fixing bolt	Without	-	-		-	-	-
HOLLOV	VTECH II	-	-	-	-	-	-
2-PIECE C	RANKSET	Х	Х	Х	Х	Х	-
HOLLOWTEC	H crank arm	-	-	-	-	-	-
ОСТА	LINK	-	-	-	-	-	Х
HOLLO	WGLIDE	-	-	-	-	-	-
	Outboard	Х	Х	Х	Х	Х	-
Compatible BB type	OCTALINK	-	-	-	-	-	X
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	BB-RS500	BB-RS500	BB-RS500	BB-RS500	BB-RS500	BBES300
Recommended BB	Pressfit	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	SM-BB71-41B	-
Axle length of BB-UN / ES (mm)	Threaded (normal)			-	-	-	113
Threaded BB shell	68	X	Х	Х	Х	Х	Х
width (mm)	70	Х	X	Х	Х	Х	X
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Crank arm	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	-
Crank axie	Finish	Plated	Plated	Plated	Plated	Plated	-
Spider arm	Material		-	-	-	-	-
5 F.u.c. u	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
Spiner aim core	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum/Resin	Aluminum/Resin	Aluminum/Resin	Aluminum/Resin	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
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	Material	SUS	SUS	SUS	SUS	Stainless steel	Stainless steel
fixing bolt	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	SUS	SUS	SUS	SUS	-	-
	Finish	-	-	-	-	-	-
_	bolt included	X	X	X	X	Х	X
Average (170mm,		-	-	-	-	-	-
(170IIIII),			w/CG spec		w/CG spec		
l NC			w/cd spec		w/cd spec		

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Crankset

San	ries	CLARIS	CLARIS	CLARIS	CLARIS	SHIMANO	TOURNEY A070
Mode		FC-R2000	FC-R2030	FC-R2000-CG	FC-R2030-CG	FC-RS200	FC-A070
Mode							
Color	1	Series color	Series color	Series color	Series color	Black	Series color
	. 2	8	-	-	-	-	-
	Rear speeds		8	8	8	8	7/8
Compati	ble chain	HG 8-speed	HG 8-speed	HG 8-speed	HG 8-speed	HG 8-speed	HG
Chain li	ne (mm)	43.5	43.5	43.5	43.5	43.5	43.5
P.C.D. left /	right (mm)	110	110/74	110	110/74	110	Riveted
Gear ar	ms (pcs)	4	4	4	4	5arms	5
Chain ring o	combination	50-34T	50-39-30T	50-34T	50-39-30T	50-34T 46-34T (NEW)	50-34T
Q-fa	ector	150	158.8	150	158.8	153.7	169
	165	х	Х	х	х	Х	Х
	167.5	-	-	_	-		-
	170	х	X	X	х	X	Х
Crank arm length	172.5	-	-	-	^		-
(mm)							
	175	х	Х	Х	X	Х	-
	177.5	-	-	-	-		-
	180	-	-	-	-	•	-
Optional chain guard	With chain guard	-	-	X	Х	X	Х
. , anam gaara	Without chain guard	Х	Х			Х	Х
Crank arm fiving half	With	Х	X	X	X	Х	-
Crank arm fixing bolt	Without	-	-	-	-	-	Х
HOLLOV	VTECH II	-	-	-	-	-	-
2-PIECE C	RANKSET	Х	Х	X	х	-	-
HOLLOWTEG	 CH crank arm	-				-	-
	ALINK	-			-	_	_
	WGLIDE	_			-	_	-
HOLLO	Outboard	X	Х	х	X		-
Constitution of							
Compatible BB type	OCTALINK	-	-	-	-	-	-
	Square	-	•	-	-	X	Х
Recommended BB	Threaded (normal)	BB-RS500	BB-RS500	BB-RS500	BB-RS500	BB-UN26	BB-UN26
	Pressfit	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)			-	-	MM110	MM110
Threaded BB shell	68	X	Х	Х	Х	Х	х
width (mm)							
	70	X	Х	Х		Х	
	70 Material	X Aluminum	X	X	X	X	Х
Crank arm	Material	Aluminum	Aluminum	Aluminum	X Aluminum	Aluminum	X Aluminum
Crank arm	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted	X Aluminum Painted	Aluminum Painted	X Aluminum Painted
Crank arm	Material Finish Material	Aluminum Painted Steel	Aluminum Painted Steel	Aluminum Painted Steel	X Aluminum Painted Steel	Aluminum Painted -	X Aluminum Painted
	Material Finish Material Finish	Aluminum Painted Steel Plated	Aluminum Painted Steel Plated	Aluminum Painted Steel Plated	X Aluminum Painted Steel Plated	Aluminum Painted	X Aluminum Painted -
	Material Finish Material Finish Material	Aluminum Painted Steel Plated -	Aluminum Painted Steel Plated -	Aluminum Painted Steel Plated -	X Aluminum Painted Steel Plated -	Aluminum Painted	X Aluminum Painted
Crank axle	Material Finish Material Finish Material Finish	Aluminum Painted Steel Plated	Aluminum Painted Steel Plated -	Aluminum Painted Steel Plated -	X Aluminum Painted Steel Plated	Aluminum Painted	X Aluminum Painted
Crank axle Spider arm	Material Finish Material Finish Material	Aluminum Painted Steel Plated -	Aluminum Painted Steel Plated -	Aluminum Painted Steel Plated -	X Aluminum Painted Steel Plated -	Aluminum Painted	X Aluminum Painted
Crank axle	Material Finish Material Finish Material Finish	Aluminum Painted Steel Plated	Aluminum Painted Steel Plated -	Aluminum Painted Steel Plated -	X Aluminum Painted Steel Plated -	Aluminum Painted	X Aluminum Painted
Crank axle Spider arm Spider arm cover	Material Finish Material Finish Material Finish Material Finish Material	Aluminum Painted Steel Plated	Aluminum Painted Steel Plated	Aluminum Painted Steel Plated	X Aluminum Painted Steel Plated	Aluminum Painted	X Aluminum Painted
Crank axle Spider arm	Material Finish Material Finish Material Finish Material Finish	Aluminum Painted Steel Plated	Aluminum Painted Steel Plated	Aluminum Painted Steel Plated	X Aluminum Painted Steel Plated	Aluminum Painted	X Aluminum Painted
Crank axle Spider arm Spider arm cover Outer ring	Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Painted Steel Plated Steel/Resin	Aluminum Painted Steel Plated Steel/Resin	Aluminum Painted Steel Plated Steel/Resin	X Aluminum Painted Steel Plated Steel/Resin	Aluminum Painted Steel	X Aluminum Painted Steel
Crank axle Spider arm Spider arm cover	Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Painted Steel Plated Steel/Resin Painted	Aluminum Painted Steel Plated Steel/Resin Painted	Aluminum Painted Steel Plated Steel/Resin Painted	X Aluminum Painted Steel Plated Steel/Resin Painted	Aluminum Painted Steel Painted	X Aluminum Painted Steel Painted
Crank axle Spider arm Spider arm cover Outer ring	Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material	Aluminum Painted Steel Plated Steel/Resin Painted	Aluminum Painted Steel Plated Steel/Resin Painted Steel	Aluminum Painted Steel Plated Steel/Resin Painted	X Aluminum Painted Steel Plated Steel/Resin Painted Steel	Aluminum Painted Steel Painted	X Aluminum Painted Steel Painted
Crank axle Spider arm Spider arm cover Outer ring	Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material	Aluminum Painted Steel Plated Steel/Resin Painted Steel	Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel Steel	Aluminum Painted Steel Plated Steel/Resin Painted Steel	X Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel	Aluminum Painted Steel Painted - Steel	X Aluminum Painted Steel Painted - Steel
Crank axle Spider arm Spider arm cover Outer ring Middle ring Inner ring	Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Painted Steel Plated Steel/Resin Painted Steel / Resin Painted - Steel Painted	Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel Painted	Aluminum Painted Steel Plated Steel/Resin Painted Steel / Resin Painted - Steel Painted	X Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel Painted Steel Painted	Aluminum Painted Steel Painted - Steel Painted	X Aluminum Painted Steel Painted - Steel Painted
Crank axle Spider arm Spider arm cover Outer ring Middle ring Inner ring Outer / middle ring	Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material	Aluminum Painted Steel Plated Steel/Resin Painted - Steel Painted SUS	Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel Painted Steel Painted Steel Painted	Aluminum Painted Steel Plated Steel/Resin Painted - Steel Painted SUS	X Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel Painted Steel Painted Steel Painted SUS	Aluminum Painted Steel Painted - Steel Painted Stainless steel	X Aluminum Painted Steel Painted - Steel Painted - Steel Painted Steel Painted
Crank axle Spider arm Spider arm cover Outer ring Middle ring Inner ring	Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Painted Steel Plated Steel/Resin Painted - Steel Painted SUS -	Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel Painted Steel Painted Steel Painted Steel Painted Steel Painted	Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted SUS -	X Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel Painted Steel Painted Steel Painted Steel Painted Steel Painted SUS -	Aluminum Painted Steel Painted Steel Painted - Steel Painted Stainless steel -	X Aluminum Painted Steel Painted - Steel Painted Steel Painted
Crank axle Spider arm Spider arm cover Outer ring Middle ring Inner ring Outer / middle ring fixing bolt	Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Sus - SUS	Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel Painted Steel Painted Steel Painted Steel Painted SUS	Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted - Steel Painted SUS - SUS	X Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel Painted Steel Painted SUS - SUS	Aluminum Painted Steel Painted - Steel Painted - Steel Painted Steel Painted Steel Painted	X Aluminum Painted Steel Painted Steel Painted Steel
Crank axle Spider arm Spider arm cover Outer ring Middle ring Inner ring Outer / middle ring fixing bolt	Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Painted Steel Plated Steel/Resin Painted - Steel Painted SUS -	Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel Painted Steel Painted Steel Painted SUS - SUS	Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted SUS -	X Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel Painted Steel Painted Steel Painted Steel Painted Steel Painted SUS -	Aluminum Painted Steel Painted Steel Painted - Steel Painted Stainless steel -	X Aluminum Painted Steel Painted - Steel Painted Steel Painted
Crank axle Spider arm Spider arm cover Outer ring Middle ring Inner ring Outer / middle ring fixing bolt	Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Sus - SUS	Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel Painted Steel Painted Steel Painted Steel Painted SUS	Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted - Steel Painted SUS - SUS	X Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel Painted Steel Painted SUS - SUS	Aluminum Painted Steel Painted - Steel Painted - Steel Painted Steel Painted Steel Painted	X Aluminum Painted Steel Painted Steel Painted Steel
Crank axle Spider arm Spider arm cover Outer ring Middle ring Inner ring Outer / middle ring fixing bolt Inner ring fixing bolt crank fixing Average	Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Painted Steel Plated Steel/Resin Painted Steel /Resin Painted - Steel Painted SUS - SUS -	Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel Painted Steel Painted Steel Painted SUS - SUS	Aluminum Painted Steel Plated Steel/Resin Painted Steel / Resin Painted Steel Painted SUS - SUS -	X Aluminum Painted Steel Plated Steel/Resin Painted Steel Painted Steel Painted Steel Painted Steel Painted SUS - SUS	Aluminum Painted Steel Painted - Steel Painted Steel Painted	X Aluminum Painted Steel Painted - Steel Painted

171

	Series						
	TOURNEY						
Mode	FC-A073						
Color	Series color						
	2	-					
	peeds	7/8					
	ble chain	HG					
	ne (mm)	45					
	right (mm)	Riveted 5					
	Gear arms (pcs)						
	Chain ring combination						
Q-fa	ictor	171.5					
	165	Х					
	167.5	-					
Crank arm length	170	Х					
(mm)	172.5	-					
	175	-					
	177.5	-					
	180	-					
Optional chain guard	With chain guard	Х					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Without chain guard	X					
Crank arm fixing bolt	With	-					
	Without	Х					
HOLLOV	VTECH II	-					
2-PIECE C	RANKSET	-					
HOLLOWTEG	-						
ОСТА	-						
HOLLO	WGLIDE	-					
	Outboard	-					
Compatible BB type	OCTALINK	-					
	Square	Х					
Recommended BB	Threaded (normal)	BB-UN26					
Recommended by	Pressfit						
Axle length of BB-UN / ES (mm)	Threaded (normal)	LL113					
Threaded BB shell	68	X					
width (mm)	70	Х					
Crank arm	Material	Aluminum					
Crank arm	Finish	Painted					
Crank avla	Material	-					
Crank axle	Finish						
Cuiden enne	Material						
Spider arm	Finish	-					
Cnidor arm cover	Material	-					
Spider arm cover	Finish	-					
Outor :	Material	Steel					
Outer ring	Finish	Painted					
840 1 11	Material	Steel					
Middle ring	Finish	Painted					
	Material	Steel					
Inner ring	Finish	Painted					
Outer / middle ring	Material	-					
fixing bolt	Finish	-					
	Material	-					
Inner ring fixing bolt	Finish	-					
crank fixing	crank fixing bolt included						
	Average weight						
(170mm,	w/o BB)						
l No							



ROAD

Bottom Bracket (HOLLOWTECH II)

Series		DURA-ACE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	BB-R9100	SM-BB92-41	SM-BB72-41	SM-BBR60	BB-RS500	BB-RS500-P
HOLLOWTECH II BB	Threaded BB type	Х	-	-	Х	Х	-
HOLLOWIECH II BB	Press-Fit type	-	Х	Х	-	-	Х
Threaded BB shell	68 mm	Х	-	-	X	X	-
width	70 mm	х	-	-	X	х	-
Press-Fit BB shell width	86.5 mm	-	X (SM-BB92-41B)	X (SM-BB72-41B)	-	-	X (BB-RS500-PB)
Small bal	l bearing	х	Х	х	Х	-	-
Adamtan	material	Aluminum	Resin	Resin	Aluminum	Aluminum	Resin
Adapter	finish	Anodized	-	-	Anodized	Anodized	-
Average	Average weight		54 g	69 g	77 g	92 g	71 g
No	ote						



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HP

Bottom Bracket

Series		DURA-ACE	DURA-ACE	105	TIAGRA	TOURNEY A070	
Mod	Model no.		BB-7700	BB-7710	BB-5500	BB-ES51	BB-UN26
	Hollow	spindle	Х	Х	Х	Х	-
Spindle	ОСТА	LINK	х	х	Х	Х	-
	Squar	e type	-	-	-	-	Х
	109.5	68 (BC1.37)	Х	X	X (for double)	-	-
		70 (M36)	Х	-	X (for double)	-	-
	MM110.0	68 (BC1.37)	-	-	-	-	X (for double)
		70 (M36)	-	-	-	-	X (for double)
	LL113.0	68 (BC1.37)	-	-	-	-	X (for triple)
Axle length / shell width (mm)		70 (M36)	-	-	-	-	X (for triple)
	113	68 (BC1.37)	-	-	-	X (for double)	-
		70 (M36)	-	-	-	X (for double)	-
	118.5	68 (BC1.37)	-	-	X (for triple)	-	
		70 (M36)	-	-	X (for triple)	-	-
	121	68 (BC1.37)	-	-	•	X (for triple)	-
Spindle	Mat	erial	Steel	Steel	Steel	Steel	Steel
Spinale	Fin	ish	Plated	Plated	Plated	Plated	Plated
Left hand adapter	Mat	erial	Aluminum	Aluminum	Aluminum	Resin	Resin
Lett Halla adapter	Fin	ish	Anodized	Anodized	Anodized	-	-
Averag	e weight		173 g	244 g	-	-	-
N	ote		-	For track	-	-	-



BR

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WH

WH

Cassette Sprocket

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA
Model no.		CS-R9100	CS-R9100	CS-R9100	CS-R9100	CS-R9100	CS-R8000
Тур	pe	HG-EV	HG-EV	HG-EV	HG-EV	HG-EV	HG-EV
Spe	eds	11-speed	11-speed	11-speed	11-speed	11-speed	11
Compatib	ble chain	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11
Combinat	ion name	11-25T	11-28T	11-30T	12-25T	12-28T	11-25T
Group	name	-	-	-	-	-	-
	11th	25*	28*	30*	25*	28*	25
	10th	23*	25*	27*	23*	25*	23
	9th	21*	23*	24*	21*	23*	21
	8th	19*	21*	21*	19*	21*	19
Combination	7th	17*	19*	19*	18*	19*	17
	6th	16	17	17	17	17	16
*Titanium gear	5th	15	15	15	16	16	15
	4th	14	14	14	15	15	14
	3rd	13	13	13	14	14	13
	2nd	12	12	12	13	13	12
	1st	11	11	11	12	12	11
Carbon Spider arm	QTY (pcs)	1	1	1	1	1	1
Carbon Spider arm	Finish	-	-	-		-	-
Al C-i-l	QTY (pcs)	1	1	1	1	1	1
Aluminum Spider arm	Finish	-	-	-		-	Anodized
Titanium gear	Finish	Titanium	Titanium	Titanium	Titanium	Titanium	-
Steel gear	Finish	Nickel plated					
Lock vine	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Lock ring	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Average	weight	175 g	193 g	211 g	189 g	205 g	232 g
No	te						

Ser	ies	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		CS-R8000	CS-R8000	CS-R8000	CS-R8000	CS-R8000	CS-6800
Тур	pe	HG-EV	HG-EV	HG-EV	HG-EV	HG-EV	HG-EV
Spe	eds	11	11	11	11	11	11-speed
Compatik	ole chain	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11
Combinat	ion name	11-28T	11-30T	12-25T	14-28T	11-32T	11-23T
Group	name		-	-	-	-	-
	11th	28	30	25	28	32	23
	10th	25	27	23	25	28	21
	9th	23	24	21	23	25	19
	8th	21	21	19	21	22	18
Combination	7th	19	19	18	20	20	17
[6th	17	17	17	19	18	16
*Titanium gear	5th	15	15	16	18	16	15
ĺ	4th	14	14	15	17	14	14
ĺ	3rd	13	13	14	16	13	13
ĺ	2nd	12	12	13	15	12	12
ĺ	1st	11	11	12	14	11	11
Carbon Spider arm	QTY (pcs)	1	1	1	1	1	1
Carbon Spider arm	Finish	-	-	-	-	-	-
Al Cuida	QTY (pcs)	1	1	1	1	1	1
Aluminum Spider arm	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Titanium gear	Finish	-	-	-	-	-	-
Steel gear	Finish	Nickel plated					
l ock vina	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Lock ring	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Average weight		251 g	269 g	243 g	300 g	292 g	212 g
No	te						

Cassette Sprocket

Ser	ies	SHIMANO	105	105	105	DURA-ACE	DURA-ACE
Model no.		CS-HG800-11	CS-5800	CS-5800	CS-5800	CS-7900	CS-7900
Туј	pe	HG-EV	HG-EV	HG-EV	HG-EV	HG	HG
Spe	eds	11	11-speed	11-speed	11-speed	10-speed	10-speed
Compatil	ole chain	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG 10-speed	HG 10-speed
Combinat	ion name	11-34T	11-28T	11-32T	12-25T	11-25T	11-27T
Group	name	-	-	-	-	-	-
	11th	34	28	32	25	-	-
	10th	30	25	28	23	25	27
	9th	27	23	25	21	23	24
	8th	25	21	22	19	21	21
Combination	7th	23	19	20	18	19	19
	6th	21	17	18	17	17	17
*Titanium gear	5th	19	15	16	16	15	15
	4th	17	14	14	15	14	14
	3rd	15	13	13	14	13	13
	2nd	13	12	12	13	12	12
	1st	11	11	11	12	11	11
Carbon Spider arm	QTY (pcs)	-	-	-	-	-	-
Carbon spider ann	Finish	-	-	-		-	-
Aluminum Spider arm	QTY (pcs)	2	1	1	1	2	2
Aluminum Spider arm	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Titanium gear	Finish	-	-	-	-	Titanium	Titanium
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Aluminum	Steel	Steel	Steel	Aluminum	Aluminum
Lock ring	Finish	Anodized	Nickel plated	Nickel plated	Nickel plated	Anodized	Anodized
Average	weight	335g	284 g	320 g	269 g	180 g	184 g
No	te						

					r		
Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		CS-7900	CS-7900	CS-6700	CS-6700	CS-6700	CS-6700
Туј	pe	HG	HG	HG	HG	HG	HG
Spe	eds	10-speed	10-speed	10-speed	10-speed	10-speed	10-speed
Compatil	ble chain	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed
Combinat	ion name	11-28T	12-27T	11-25T	11-28T	12-25T	12-30T
Group	name		-	-	-	-	-
	11th	-	-	-	-	-	-
	10th	28	27	25	28	25	30
	9th	24	24	23	24	23	27
	8th	21	21	21	21	21	24
Combination	7th	19	19	19	19	19	21
	6th	17	17	17	17	17	19
*Titanium gear	5th	15	16	15	15	16	17
	4th	14	15	14	14	15	15
	3rd	13	14	13	13	14	14
	2nd	12	13	12	12	13	13
	1st	11	12	11	11	12	12
Carbon Spider arm	QTY (pcs)	-	-	-	-	-	-
Carbon spider ann	Finish	-	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	2	2	1	1	1	1
Aluminum Spider ann	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Titanium gear	Finish	Titanium	Titanium	-	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Average	weight	187 g	189 g	229 g	242 g	238 g	-
No	te						

BR

WH

WH

Cassette Sprocket

Ser	ies	105	105	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		CS-5700	CS-5700	CS-HG500-10	CS-HG500-10	CS-HG500-10	CS-HG500-10
Туре		HG	HG	HG	HG	HG	HG
Spe	eds	10-speed	10-speed	10-speed	10-speed	10-speed	10-speed
Compatib	ole chain	HG 10-speed	HG 10-speed	HG-X 10-speed/HG 10-speed/CN-HG500	HG-X 10-speed/HG 10-speed/CN-HG500	HG-X 10-speed/HG 10-speed/CN-HG500	HG-X 10-speed/HG 10-speed/CN-HG500
Combinat	ion name	11-25T	11-28T	11-25T	12-28T	11-32T	11-34T
Group	name	-	-	-	-	-	-
	11th	-	-	-	-	-	-
[10th	25	28	25	28	32	34
[9th	23	24	23	25	28	30
	8th	21	21	21	23	25	26
Combination	7th	19	19	19	21	22	23
	6th	17	17	17	19	20	21
*Titanium gear	5th	15	15	15	17	18	19
	4th	14	14	14	15	16	17
	3rd	13	13	13	14	14	15
	2nd	12	12	12	13	12	13
	1st	11	11	11	12	11	11
Carbon Spider arm	QTY (pcs)	-	-	-	-	-	-
Carbon spider ann	Finish	-	-	-		-	-
Aluminum Spider arm	QTY (pcs)	1	1			-	-
Aidilliulii Spider ariii	Finish	Anodized	Anodized	-		-	-
Titanium gear	Finish	-	-	-	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
Lock ring	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Average	weight	245 g	255 g	-	-	-	-
No	te						

Ser	ies	SORA	SORA	SORA	SORA	SORA	CLARIS
Model no.		CS-HG50-9	CS-HG50-9	CS-HG50-9	CS-HG50-9	CS-HG400-9	CS-HG50-8
Туј	pe	HG	HG	HG	HG	HG	HG
Spe	eds	9-speed	9-speed	9-speed	9-speed	9-speed	8-speed
Compatil	ole chain	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	CN-HG71
Combinat	ion name	11-30T	12-25T	13-25T	14-25T	11-25T	11-28T
Group	name	bQ	-	-	G	G	bf
	11th	-	-	-	-	-	-
	10th		-	-	-	-	-
	9th	30	25	25	25	25	-
	8th	26	23	23	23	23	28
Combination	7th	23	21	21	21	21	24
	6th	20	19	19	19	19	21
*Titanium gear	5th	18	17	17	18	17	19
	4th	16	15	16	17	15	17
	3rd	14	14	15	16	13	15
	2nd	12	13	14	15	12	13
	1st	11	12	13	14	11	11
Carbon Spider arm	QTY (pcs)	-	-	-	-	-	-
Carbon Spider arm	Finish	-	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	-	-	-	-	-	-
Aluminum Spider arm	Finish	-	-	-	-	-	-
Titanium gear	Finish	-	-	-	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
Lock filig	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Average	weight	-	-	-	-	-	-
Note						NEW gear combination	

Cassette Sprocket

Seri	es	CLARIS	CLARIS	CLARIS	SHIMANO	CLARIS	CLARIS
Mode	l no.	CS-HG50-8	CS-HG50-8	CS-HG50-8	CS-HG50-8	CS-HG50-8	CS-HG50-8
Тур	oe .	HG	HG	HG	HG	HG	HG
Spec	eds	8-speed	8-speed	8	8-speed	8-speed	8-speed
Compatib	le chain	CN-HG71	CN-HG71	HG 8-speed	HG	HG	HG
Combinati	on name	11-30T	11-32T	11-34T	12-23T	12-25T	13-26T
Group	name	an	aw	Ca	U	W	V
	11th	-	-	-	-	-	-
	10th	-	-	-	-	-	-
	9th	-	-	-	-	-	-
	8th	30	32	34	23	25	26
Combination	7th	26	28	28	21	23	23
	6th	23	24	24	19	21	21
*Titanium gear	5th	20	21	21	17	19	19
	4th	17	18	18	15	17	17
	3rd	15	15	15	14	15	15
	2nd	13	13	13	13	13	14
	1st	11	11	11	12	12	13
Carbon Spider arm	QTY (pcs)	-	-	-	-		-
Carbon Spider aim	Finish	-	-	-	-	-	-
Aluminum Spider arm -	QTY (pcs)	-	-	·		-	-
Aluminum spider arm	Finish	-	-	-		-	-
Titanium gear	Finish	-	-		·	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
Lock filig	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Average	weight	-	-		-	-	-
No	te						

Ser	ries	TOURNEY A070	TOURNEY A070
Mode	el no.	CS-HG41-7	CS-HG20-7
Ту	pe	HG	HG
Spe	eds	7-spe <mark>ed</mark>	7-speed
Compati	ble chain	IG/HG	IG/HG
Combinat	ion name	11-28T	12-28T
Group	name	ac	E
	11th	-	-
	10th		-
	9th		-
	8th	-	-
Combination	7th	28	28
	6th	24	24
*Titanium gear	5th	21	21
	4th	18	18
	3rd	15	16
	2nd	13	14
	1st	11	12
Carbon Spider arm	QTY (pcs)	-	-
Carbon Spider arm	Finish	-	-
Aluminum Enidos assa	QTY (pcs)	-	-
Aluminum Spider arm	Finish	-	-
Titanium gear	Finish	-	-
Steel gear	Finish	Nickel plated	Brown&Black
	Material	Steel	Steel
Lock ring	Finish	Manganese phosphate	Zinc phosphate
Average	weight	-	-
No	te		

ROAD

BR

BR

BR

RD

FD

WH

WH

Front Hub (Rim/Disc Brake)

Sei	ies		DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	105	SHIMANO
Mode	el no.		HB-9000	HB-7710	HB-7600	HB-6800	HB-5800	HB-RS400
Color	1	1	Series color	Silver	Silver	Series color	Black	Black
Color	2	2	-	-	-	-	Silver	Silver
Brake	Туре		Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
O.L.D.	(mm)		100	100 (Front) 120 (Rear)	100 (Front) 120 (Rear)	100	100	100
	24	 \$Н	Х	-	-	-	-	-
	28		X	Х	Х	_	-	Х
Spoke hole		ΣH	X	X	Х	Х	Х	X
		<u></u> БН	X	X	X	X	X	X
	Fixing		QR	NUT	NUT	QR	QR	QR
	QR	129		-	-	-	-	-
	skewer length (mm)	133	x	-	-	Х	х	Х
Axle	Length	n (mm)	108	142 (M9) (Front) 164 (M10) (Rear)	142 (M9) (Front) 164 (M10) (Rear)	108	108	108
Axie	Diamet	er (mm)	14.8	9 (Front) 10 (Rear)	9 (Front) 10 (Rear)	14	9	9
	Thru Axle	100 x 8	-	-	-	-	-	-
	Length x Inner	100 x 12	-	-	-	-	-	-
	x inner Diameter	100 x 15	-	-	-	-	-	-
	(mm)	110 x 20	-	-			-	-
Flange dist	tance (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	71.6
Offset (mm)			0	0(Front)/2.75 (Single Thread, Rear)/ 0 (Double Thread, Rear)	0(Front)/5.25(Rear)	0	0	0
P.C.D. Left/Right (mm)			38	38 (Front) 44 (Rear)	67	40	38	38
Flange diameter (mm)		48.4	46 (Front) 52 (Rear)	75	50.4	48.4	48.4	
Se	al		Labyrinth and Contact	Dust Cap	Dust Cap	Labyrinth and Contact	Labyrinth and Contact	Contact
Internal gr	ease sleeve		Х	-	-	Х	Х	X
Digital adjus	tment syster	m	Х	-	-	X	-	-
	Stainle	ess ball	X	X	X	-	-	-
Bearing	Cı	лb	Super Finishing **	Polish	CBN/Polish	Polish	Polish	Polish
	Co	ne	CBN/Po <mark>lish</mark>	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	CBN
	CENTE	R LOCK		-	-	-	-	-
	External rotor lo	serration ock ring		-	-	-	-	-
Disc mount		OCK mount option	-	-	-	-	-	-
		olt		-	-	-	-	-
	140 mm c	disc brake mpatible	-	-	-	-	-	-
Unib shall	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Fin	ish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Mat	erial	Aluminum	Steel	Steel	Aluminum	Steel	Steel
Axle	Fin	ish	Anodized	Plating	Plating	Anodized	w/Plated Nut	-
		erial	Aluminum	-	-	Aluminum	Aluminum	Aluminum
QR lever		ish	Anodized	-	-	Anodized	Anodized	Painted
		lor	Silver	-	-	Gray	Black	Black
		erial	Anodized	-	-	Aluminum	Aluminum	Aluminum
QR housing		ish	Silver	-	-	Anodized	Anodized	Painted
		erial	Anodized	-	-	Resin	Resin	Resin
QR nut		ish	Silver	_	-	Black	Black	Black
Padial	lacing		X	_	-	X	X	Х
Average	weight)	120 g	298 g (rear w/ lockring) 203 g (front)	313 g (rear LF w / lock ring) 241 g (front LF)	158 g	155 g	-
(w/o axle and lock ring) Note			* Aero spoke hole available(18H/24H) ** Super Finishing	For Track * Dishing Distance R (Single Thread): 2.75mm / (Double Thread): 0				

179

Front Hub (Rim/Disc Brake)

Color Brake			HB-RS300			
Brake `			115 115500	HB-RM40	HB-RS770	HB-RS505
Brake `			Silver	Black	Black	Black
	2	!	Black	Silver	Silver	-
חוח	Туре		Rim brake	Rim brake	CENTER LOCK disc brake	CENTER LOCK disc
J.L.D.	(mm)		100	100	100	100
	24	Н	-	-	-	-
	28	Н	Х	-	х	х
Spoke hole	32	Н	Х	Х	Х	Х
Ī	36	Н	Х	Х	х	Х
	Fixing r	nethod	QR QR 12mm E-THR		12mm E-THRU	QR
	QR	129	Х	Х	-	-
	skewer length (mm)	133	х	Х	-	х
	Length	(mm)	108 (M9)	108 (M9)	100	108
Axle	Diamete		9	9	15	9
-	100 v 8		-	-	-	
	Thru Axle Length	100 x 12	-	_	x	
	x Inner Diameter	100 x 12	-	-	-	
	(mm)	110 x 20		<u> </u>		
Flange dista	ance (mm)	110 % 20	71.6	71.6	59.6	59.6
Offset			0	0	6	6
				· · · · · · · · · · · · · · · · · · ·		44 (left) /
P.C.D. Left/R	tignt (mm)		38	38	44/44	44 (right)
Flange diam	Flange diameter (mm)		48.4	46	52.8 (left) / 52.8 (right)	52.8 (left) / 52.8 (right)
Sea	al 		Contact	-	Labyrinth & Contact	Contact
Internal gre	ase sleeve		-	-	-	Х
Digital adjustr	ment syster	n	-	-	-	-
Ļ	Stainle	ss ball		-	-	-
Bearing	Cı	ıp	·	-	CBN	Polish
	Cone		-	·	CBN	CBN
Ļ	CENTE	LOCK	• _	-	х	Х
	External rotor lo	serration ck ring	Y	-	-	-
Disc mount	CENTER LC cover	CK mount option		-	-	-
	6-b	olt		-	-	-
		lisc brake npatible	-	-	х	Х
Hub shell	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum
HUD SHEH	Fin	ish	Anodized	Anodized	Anodized	Anodized
Axle	Mat	erial	Steel	Steel	Aluminum	Steel
AAIG	Fin	ish	-	-	Anodized	-
Ţ	Mat	erial	Aluminum	Steel	-	Aluminum
QR lever	Fin	ish	Painted	Plated	-	Painted
	Co	lor	Black	Silver	-	Black
OR housing	Mat	erial	Steel	Steel	-	Aluminum
QR housing	Fin	ish	Painted	Plated	-	Painted
OP	Mat	erial	Resin	Resin	-	Resin
QR nut	Fin	ish	Black	Black	-	Black
Radial I	lacing		х	-	-	-
Average (w/o axle and			-	-	125 g	185 g

ST

BR

BR

BR

RD

FD

НВ

FΗ

WH

WH

FREEHUB (Rim/Disc Brake)

Sei	ries		DURA-ACE	ULTEGRA	105	SHIMANO	SHIMANO	TOURNEY A070
Mode	el no.		FH-9000	FH-6800	FH-5800	FH-RS400	FH-RS300	FH-RM30-7-QR
	1	l	Series color	Series color	Black	Black	Silver	Silver
Color	2	 2	-	-	Silver	Silver	Black	-
Brake			Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
	peeds		11/10*	11/10*	11/10*	10 / 11	8/9/10-speed	7
	(mm)		130	130	130	130	130	130
0.2.0	24		X	-	-	-	-	-
	28		X	-	_	X	X	_
Spoke hole								
	32		X	X	X	X	X	Х
	36		Х	X	X	Х	X	-
External serration	wi		-	-	-	-	-	-
rotor lock ring		nout	-	-	-	-	-	-
Internal serration	wi		-	-	-	-	-	-
rotor lock ring	with	nout	-	-	-	-	-	-
CENTER LOCK mo	unt cover o	ption	-	-	-	-	_	-
	Fixing r	method	QR	QR	QR	QR	QR	QR
		161	-	-	-		-	Х
		163	Х	Х	Х	X	Х	-
	QR skewer	166	-	-	-	-		-
	length	168	Х	X	X	X	х	-
	(mm)	170	-	-	-	-		-
Axle		173	_	-	A .		_	_
		135 x 10	-	-			-	-
	Thru Axle							
	Length	135 x 12	-	-	-	-	-	-
	x Inner Diameter	142 x 12	-	-	•	-	-	-
	(mm)	148 x 12	-	-		-	-	-
		150 x 12	-	-	-	-	-	-
Flange dis	tance (mm)		56.9 **	56.9	56.9	56.9	57.9	59.2
Offset	t (mm)		9.75 **	9.7	9.75	9.75	8.4	5.5
P.C.D. left /	right (mm)		44 / 45	44 / 45	44 / 45	44 / 45	45	45
Flange diameter	left / right ((mm)	52.8/53.8	52.8/53.8	52.8/53.8	52.8 / 53.8	53.8	53.8
e d	Hub		Contact	Contact	Contact	Contact	Contact	-
Seal	Free hu	b body	Contact	Contact	Contact	Contact	Contact	-
Internal gr	ease sleeve		Х	Х	Х	Х	Х	-
Digital adjus		m	Х	Х	-	-	-	-
<u> </u>	Stainle		Х		_	-	_	_
Bearing	Cı	ın	CBN	Polish	Polish	Polish	_	_
Dearing	Co		CBN	CBN	CBN	CBN	_	_
		erial						Steel
FREEHUB body			Titanium	Steel	Steel	Steel	Steel	Steel
	Fin		A1 ·	A1 .	A1 :	- Al :	- Al :	Al. 1 72
Hub shell		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum/2pc
	Fin		Anodized	Anodized	Anodized	Anodized	Anodized	Shiny
Axle		erial	Aluminum	Aliminum	Steel	Steel	Steel	Steel
-	Fin	ish	Anodized	Anodized	w/Plated Nut	-	-	-
	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
QR lever	Fin	ish	Anodized	Anodized	Anodized	Painted	Painted	Plated
	Co	lor	9000SLV	Black	Black	Black	Black	Black
OP havein-	Mate	erial	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
QR housing	Fin	ish	Anodized	Anodized	Anodized	Painted	Painted	Painted
A F :	Mat	erial	Aluminum	Resin	Resin	Resin	Resin	Resin
QR nut	Fin	ish	Anodized	Black	Black	Black	Black	Black
		erial	-	-	-	-	-	-
Rotor lock ring	Fin		-	-	-	-	-	-
Radial			-	-	-	_	-	-
Radial Lacing Average weight								
)	247 g	330 g	368 g	-	-	-
(w/o axle and lock ring) Note		* Can be used for 10-speed with an additional spacer. ** Aero spoke hole available *** Flange Distance:56.5, Dish:9.95(only for	* 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.			

FREEHUB (Rim/Disc Brake)

Ser	ries		SHIMANO	SHIMANO
Mode			FH-RS770	FH-RS505
		l .	Silver	Black
Color	-	 2	Black	-
Brake	туре		CENTER LOCK disc	CENTER LOCK disc
Rear s	peeds		11/10*	11 / 10
O.L.D.	. (mm)		142	135
	24	iH	-	-
	28	BH	Х	Х
Spoke hole	32	 2H	Х	Х
	36H X		Х	Х
External serration	wi	th	-	-
rotor lock ring	with	nout	-	-
Internal serration	with		-	-
rotor lock ring	without		Х	Х
CENTER LOCK mo	unt cover o	ption	-	-
		nethod	12mm E-THRU	QR
	j	161	-	-
		163	-	-
	QR skewer	166	-	-
	length	168	-	х
	(mm)	170	_	-
Axle		173	_	Х
		135 x 10	_	-
	Thru Axle	135 x 12	_	_
	Length x Inner	142 x 12	X	-
	Diameter	142 x 12		_
	(mm)	150 x 12	-	_
Flange dist	tanco (mm)	130 X 12	55.7	55.65
Flange dist	t (mm)		7.5	7.4
P.C.D. left /			44 / 45	44 / 45
Flange diameter		(mm)	52.8/53.8	52.8 / 53.8
rialige dialileter	Hi		Contact	Contact
Seal		b body	Contact	Contact
Internal ar	ease sleeve	D Dody		X
Digital adjust				-
Digital aujus	Stainle			
Bearing		ıp	CBN	Polish
Dearing		ne	CBN	CBN
	-	erial	Steel	Steel
FREEHUB body		ish	3(66)	J.CCI
		erial	Aluminum	Aluminum
Hub shell		ish	Anodized	Anodized
		erial	Aluminum	Steel
Axle		ish	Anodized	Jieer
		erial	Anodized	Aluminum
QR lever	_	ish	-	Painted
QR lever	· ·	$\overline{}$		
		lor erial	-	Black Aluminum
QR housing			-	
		ish orial	-	Painted
QR nut	-	erial ish	-	Resin
			-	Black
Rotor lock ring		erial	-	-
- " .		ish	-	-
	Lacing		-	-
Average (w/o axle ar	weight nd lock ring))	302 g	-
No	ote		* Can be used for 10-speed with an additional spacer.	
			For Disc Brake/ CENTER LOCK mount	



ROAD

FH

WH

Ser	ios	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Mode		WH-R9100-C60	WH-R9100-C60	WH-R9100-C60	WH-R9100-C60	WH-R9100-C40	WH-R9100-C40
SP	EC	CL-F	CL-R	TU-F	TU-R	CL-F	CL-R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Front		Front	Rear Rim brake	Front	Rear Dim broke	Front	Rear Dim broke
Brake Spe		Rim brake	10*/11	Rim brake	Rim brake 10*/11	Rim brake	Rim brake 10*/11
O.L.D.		100	130	100	130	100	130
Whee		622x17C	622x17C	700C	700C	622x15C	622x15C
	Height (mm)	50	50	60	60	35	35
.	Width (mm)	22.4	22.4	28	28	20.8	20.8
Rim	Rim joint	Sleeved	Sleeved	-	-	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
	Number	16	21	16	21	16	21
Spokes	Bladed	X	X	Х	X	X	Х
	Butted	X	X	X	X	X	X
Axle Fixin		QR	QR	QR	QR	QR	QR
	129 133	- X	-	- X	-	- X	-
	161		-	-	-		-
QR skewer length	163	-	X	-	X		X
(mm)	166	-	-	-	^	-	-
······,	168	-	X	-	X	-	X
	170	-	-	-	-	-	-
	173	-	-	-	-		-
Axle Len		108	141	108	141	108	141
Axle Diam	, ,	15	15	15	15	15	15
	100 x 8	-	-			-	-
	100 x 12	-	-	-		-	-
Thru Axle	100 x 15	-	-	-		-	-
Length x Inner Diameter	110 x 20	-	-		•	-	-
x Inner Diameter (mm)	135 x 10	-	-	-	-	-	-
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	135 x 12 142 x 12	-	-		-	-	-
	150 x 12	-	-			-	-
	Stainless ball	Х	Х	X	Х	X	Х
Bearing	Cup	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
	CENTER LOCK	-	-	-	-	-	-
	CENTER LOCK mount				_	_	_
Disc mount	cover option			-	-	-	-
	140 mm Disc brake	-	-	-	_	_	-
OPT	rotor compatible	-	Х	_	Х	_	X
D2		X	X	X	X	-	-
OFFSE		^	-	-	-	-	X
Digital adjust		Х	Х	Х	Х	Х	X
	Hub	Contact	Contact	Contact	Contact	Contact	Contact
Seal	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal gre	ease sleeve	-	-	-	-	-	-
Requires	•	Х	X	-	-	X	X
	Туре	Clincher	Clincher	Tubular	Tubular	Clincher	Clincher
Tire	Dogwood 1 1	23-622	23-622	23-28"	23-28"	23-622	
	Recommended size	22 522	-			23-022	23-622
		₹/-h//	37-622	- 28-28"	- 28-28"	-	-
Rim	Material	32-622 Carbon+AL	32-622 Carbon+AL	28-28" Carbon	- 28-28" Carbon	23-022 - 28-622 Carbon+AL	- 28-622
	Material Finish	Carbon+AL painting	32-622 Carbon+AL painting	28-28" Carbon painting	- 28-28" Carbon painting	- 28-622	-
Cmaka		Carbon+AL	Carbon+AL	Carbon	Carbon	- 28-622 Carbon+AL	- 28-622 Carbon+AL
Spoke	Finish Material Color	Carbon+AL painting Stainless steel Black	Carbon+AL painting Stainless steel Black	Carbon painting Stainless steel Black	Carbon painting Stainless steel Black	28-622 Carbon+AL painting Stainless steel Black	28-622 Carbon+AL painting Stainless steel Black
	Finish Material Color Material	Carbon+AL painting Stainless steel Black Aluminum	Carbon+AL painting Stainless steel Black Aluminum	Carbon painting Stainless steel Black Aluminum	Carbon painting Stainless steel Black Aluminum	28-622 Carbon+AL painting Stainless steel Black Aluminum	28-622 Carbon+AL painting Stainless steel Black Aluminum
Spoke Nipple	Finish Material Color Material Color	Carbon+AL painting Stainless steel Black Aluminum Silver	Carbon+AL painting Stainless steel Black Aluminum Silver	Carbon painting Stainless steel Black	Carbon painting Stainless steel Black Aluminum Silver	28-622 Carbon+AL painting Stainless steel Black	28-622 Carbon+AL painting Stainless steel Black Aluminum Black
	Finish Material Color Material Color Material Material	Carbon+AL painting Stainless steel Black Aluminum Silver	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium	Carbon painting Stainless steel Black Aluminum Silver	Carbon painting Stainless steel Black Aluminum	28-622 Carbon+AL painting Stainless steel Black Aluminum	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium
Nipple	Finish Material Color Material Color Material Finish	Carbon+AL painting Stainless steel Black Aluminum Silver	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium	Carbon painting Stainless steel Black Aluminum Silver -	Carbon painting Stainless steel Black Aluminum Silver Titanium	28-622 Carbon+AL painting Stainless steel Black Aluminum Black -	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium
Nipple	Finish Material Color Material Color Material Finish Material	Carbon+AL painting Stainless steel Black Aluminum Silver Aluminum	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum	Carbon painting Stainless steel Black Aluminum Silver - Aluminum	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium - Aluminum
Nipple FREEHUB body Hub shell	Finish Material Color Material Color Material Finish Material Finish	Carbon+AL painting Stainless steel Black Aluminum Silver Aluminum Anodized	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized	Carbon painting Stainless steel Black Aluminum Silver Aluminum Anodized	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum Anodized	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium - Aluminum Anodized
Nipple FREEHUB body	Finish Material Color Material Color Material Finish Material Finish Material Material	Carbon+AL painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum	Carbon painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum Anodized Aluminum	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium - Aluminum Anodized Aluminum
Nipple FREEHUB body Hub shell Axle	Finish Material Color Material Color Material Finish Material Finish	Carbon+AL painting Stainless steel Black Aluminum Silver Aluminum Anodized	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized	Carbon painting Stainless steel Black Aluminum Silver Aluminum Anodized	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum Anodized	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium - Aluminum Anodized
Nipple FREEHUB body Hub shell	Finish Material Color Material Color Material Finish Material Finish Material Finish Material Finish	Carbon+AL painting Stainless steel Black Aluminum Silver - Aluminum Anodized Aluminum Anodized	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized	Carbon painting Stainless steel Black Aluminum Silver - Aluminum Anodized Aluminum Anodized	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized	28-622 Carbon+AL painting Stainless steel Black Aluminum Black - Aluminum Anodized Aluminum Anodized Aluminum	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium - Aluminum Anodized Aluminum
Nipple FREEHUB body Hub shell Axle QR lever	Finish Material Color Material Color Material Finish Material Finish Material Finish Material Finish Material	Carbon+AL painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Carbon painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium - Aluminum Anodized Aluminum Anodized Aluminum
Nipple FREEHUB body Hub shell Axle	Finish Material Color Material Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Carbon+AL painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized	Carbon painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized
Nipple FREEHUB body Hub shell Axle QR lever QR housing	Finish Material Color Material Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Carbon+AL painting Stainless steel Black Aluminum Silver	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Carbon painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum
Nipple FREEHUB body Hub shell Axle QR lever	Finish Material Color Material Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Carbon+AL painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color	Carbon painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color
Nipple FREEHUB body Hub shell Axle QR lever QR housing	Finish Material Color Material Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish	Carbon+AL painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW	Carbon painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Carbonized Aluminum Anodized Aluminum Anodized Aluminum Carbonized Aluminum Carbonized Aluminum Carbonized Aluminum Series color CATEYE RR-550-WUW	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Canodized Aluminum	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Carbon Carbon Carbon Carbon
Nipple FREEHUB body Hub shell Axle QR lever QR housing	Finish Material Color Material Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Color	Carbon+AL painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Carbon Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW	Carbon painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Candized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW
Nipple FREEHUB body Hub shell Axle QR lever QR housing	Finish Material Color Material Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Color	Carbon+AL painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Candized Aluminum Anodized Aluminum Candized Aluminum Anodized Aluminum Anodized Aluminum Carteye RR-550-WUW SW CATEYE RR-550-WUA	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Carbon Anodized Aluminum Anodized Aluminum Carbon Carbon Carbon Sw Carbon Car	Carbon painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Anodized Aluminum Cares color CATEYE RR-550-WUW SW CATEYE RR-550-WUA	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Cartes color CATEYE RR-550-WUW SW	Z8-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Canodized Aluminum Canodized Aluminum Canodized Aluminum Carteye RR-550-WUW SW CATEYE RR-550-WUA	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Caluminum Anodized Aluminum Caluminum Caluminum Caluminum Caluminum Caluminum Caluminum Caluminum Caluminum Caluminum Series color CATEYE RR-550-WUA
Nipple FREEHUB body Hub shell Axle QR lever QR housing QR nut	Finish Material Color Material Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Color JIS/CPSC	Carbon+AL painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Canodized Aluminum Canodized Aluminum Care Ranodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Control Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Control Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA	Carbon painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Anodized Aluminum Carbon Carbon Sw CATEYE RR-550-WUA SW	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Control Careye RR-550-WUW SW CATEYE RR-550-WUA SW	Z8-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Canodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium Anodized Aluminum Anodized Aluminum Anodized Aluminum Candized Aluminum Anodized Aluminum Candized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUA SW
Nipple FREEHUB body Hub shell Axle QR lever QR housing QR nut	Finish Material Color Material Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Color JIS/CPSC	Carbon+AL painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Candized Aluminum Anodized Aluminum Candized Aluminum Anodized Aluminum Anodized Aluminum Carteye RR-550-WUW SW CATEYE RR-550-WUA	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Carbon Anodized Aluminum Anodized Aluminum Carbon Carbon Carbon Sw Carbon Car	Carbon painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Anodized Aluminum Cares color CATEYE RR-550-WUW SW CATEYE RR-550-WUA	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Cartes color CATEYE RR-550-WUW SW	Z8-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Canodized Aluminum Canodized Aluminum Canodized Aluminum Carteye RR-550-WUW SW CATEYE RR-550-WUA	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium Anodized Aluminum Anodized Aluminum Anodized Aluminum Candized Aluminum Anodized Aluminum Candized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUM SW CATEYE RR-550-WUA
Nipple FREEHUB body Hub shell Axle QR lever QR housing QR nut Reflector Average (w/o QR, rim tape, tub)	Finish Material Color Material Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Color JIS/CPSC	Carbon+AL painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Control Aluminum Anodized Aluminum Anodized Aluminum Control Careye RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-517-WUA	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Carbon Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA	Carbon painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Columinum Anodized Aluminum Anodized Aluminum Anodized Aluminum Columinum Anodized Aluminum Columinum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Control Aluminum Anodized Aluminum Anodized Aluminum Control Control Cateye RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-5317-WUA	Z8-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Cares color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-517-WUA	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium Anodized Aluminum Anodized Aluminum Anodized Aluminum Candized Aluminum Anodized Aluminum Candized Aluminum Candized Aluminum Candized Aluminum Candized Aluminum Carteye RR-550-WUW SW CATEYE RR-550-WUA
Nipple FREEHUB body Hub shell Axle QR lever QR housing QR nut Reflector	Finish Material Color Material Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Color JIS/CPSC	Carbon+AL painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Candized Aluminum Anodized Aluminum Anodized Aluminum Cares color CATEYE RR-550-WUM SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Control Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	Carbon painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Anodized Aluminum Carteye RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Colored Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Colored Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	Z8-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Canodized Aluminum Canodized Aluminum Canodized Aluminum Carteye RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Carteye Re-550-WUM SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW
Nipple FREEHUB body Hub shell Axle QR lever QR housing QR nut Reflector Average (w/o QR, rim tape, tub)	Finish Material Color Material Color Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material Color JIS/CPSC AS DIN weight eless tape, valve stem, ring)	Carbon+AL painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Candized Aluminum Anodized Aluminum Anodized Aluminum Cares color CATEYE RR-550-WUM SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	Carbon+AL painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Carbon Aluminum Anodized Aluminum Anotized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA	Carbon painting Stainless steel Black Aluminum Silver Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Anodized Aluminum Carteye RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	Carbon painting Stainless steel Black Aluminum Silver Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Anodized Aluminum Carber Solor CATEYE RR-550-WUM SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	Z8-622 Carbon+AL painting Stainless steel Black Aluminum Black Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Canodized Aluminum Anodized Aluminum Canodized Aluminum Canodized Aluminum Canodized Aluminum Carteye RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	28-622 Carbon+AL painting Stainless steel Black Aluminum Black Titanium - Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Carbon Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Carbon Aluminum Anodized Aluminum Anodi

Ser	ies	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO	SHIMANO
Mode		WH-R9100-C40	WH-R9100-C40	WH-R9100-C24	WH-R9100-C24	WH-RS700-C30	WH-RS700-C30
SP		TU-F	TU-R	CL-F	CL-R	TL-F	TL-R
Color	1 2	Series color	Series color	Series color	Series color	Black -	Black -
Front		Front	Rear	Front	Rear	Front	Rear
Brake	Туре	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
Spe		-	10*/11	-	10*/11	-	10*/11
O.L.D.		100 700C	130	100	130	100	130
Whee	Height (mm)	700C 37	700C 37	622x15C 21	622x15C 24	622x15C 24	622x15C 28
	Width (mm)	28	28	20.8	20.8	20.8	20.8
Rim	Rim joint	-	-	Sleeved	Sleeved	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
Spokes	Number Bladed	16 X	21 X	16 X	20 X	16 X	21 X
Spokes	Butted	X	X	X	X	X	X
Axle Fixin		QR	QR	QR	QR	QR	QR
	129	-	-	-	-	-	-
	133 161	X -	-	X -	-	X	-
QR skewer length	163	-	- X	-	- X		- X
(mm)	166	-	-	-	,	-	-
	168	-	Х	-	X	-	X
	170	-	-	-	-		-
Axle Lend	173	- 100	- 141	- 100	1/11	100	- 141
Axle Leng	, , , , , , , , , , , , , , , , , , ,	108 15	141 15	108 15	141 15	108 15	141 15
AAIC DIUII	100 x 8	-	-	-	- 13	-	-
	100 x 12	-	-	-		-	-
Thru Axle	100 x 15	-	-	-	·	-	-
Length x Inner Diameter	110 x 20 135 x 10	-	-	-	-	-	-
(mm)	135 x 10	-	-		-	-	-
` ,	142 x 12	-	-		-	-	-
	150 x 12	-	-	-	-	-	-
	Stainless ball	X	X	X	X	-	-
Bearing	Cup Cone	CBN finish CBN finish	CBN finish CBN finish	CBN finish CBN finish	CBN finish CBN finish	CBN finish CBN finish	CBN finish CBN finish
	CENTER LOCK	-	-	-	-	-	-
	CENTER LOCK mount				_		_
Disc mount	cover option			-	-	-	
	140 mm Disc brake rotor compatible	-	-	-	-	-	-
OPT		-	Х	-	-	-	Х
D2		-	-	-	-	-	-
OFFSE			X	-	X	-	X
Digital adjust	ment system Hub	X Contact	X Contact	X Contact	X Contact	- Contact	- Contact
Seal	FREEHUB body	- Contact	Contact	-	Contact	-	Contact
Internal gre		-	-	•	-	-	-
Requires			-	Х	Х	X	X
	Туре	Tubular	Tubular	Clincher	Clincher	Tubeless	Tubeless
Tire	Recommended size	23-28"	23-28"	23-622	23-622	23-622 - 28-622	23-622 - 28-622
		28-28"	28-28"	28-622	28-622		
Rim	Material	Carbon	Carbon	Carbon+AL	Carbon+AL	Carbon+AL	Carbon+AL
	Finish Material	painting Stainless steel	painting Stainless steel	painting Stainless steel	painting Stainless steel	painting Stainless steel	painting Stainless steel
Spoke	Color	Black	Black	Black	Black	Black	Black
Nimala	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Nipple	Color	Black	Black	Black	Black	Black	Black
FREEHUB body	Material	-	Titanium	-	Titanium	-	Steel
=	Fig.1-b						
	Finish Material	- Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum	
Hub shell	Finis <mark>h</mark> Material Finish	- Aluminum Anodized	- Aluminum Anodized	- Aluminum Anodized	- Aluminum Anodized	- Aluminum Anodized	Aluminum Anodized
	Material Finish Material	Aluminum Anodized Aluminum	Aluminum Anodized Aluminum	Aluminum Anodized Aluminum	Aluminum Anodized Aluminum	Anodized Aluminum	Aluminum Anodized Aluminum
Hub shell Axle	Materi <mark>al</mark> Finish Material Finish	Aluminum Anodized Aluminum Anodized	Aluminum Anodized Aluminum Anodized	Aluminum Anodized Aluminum Anodized	Aluminum Anodized Aluminum Anodized	Anodized Aluminum Anodized	Aluminum Anodized Aluminum Anodized
	Materi <mark>al</mark> Finish Material Finish Material	Aluminum Anodized Aluminum Anodized Aluminum	Aluminum Anodized Aluminum Anodized Aluminum	Aluminum Anodized Aluminum Anodized Aluminum	Aluminum Anodized Aluminum Anodized Aluminum	Anodized Aluminum Anodized Aluminum	Aluminum Anodized Aluminum Anodized Aluminum
Axle QR lever	Materi <mark>al</mark> Finish Material Finish	Aluminum Anodized Aluminum Anodized	Aluminum Anodized Aluminum Anodized	Aluminum Anodized Aluminum Anodized	Aluminum Anodized Aluminum Anodized	Anodized Aluminum Anodized	Aluminum Anodized Aluminum Anodized
Axle	Material Finish Material Finish Material Finish Material Finish Material Finish	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum
Axle QR lever QR housing	Material Finish Material Finish Material Finish Material Finish Material Finish Material	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin
Axle QR lever	Material Finish Material Finish Material Finish Material Finish Material Finish Color	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color	Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin Black	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Black
Axle QR lever QR housing	Material Finish Material Finish Material Finish Material Finish Material Finish Material	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum	Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin
Axle QR lever QR housing QR nut	Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material JIS/CPSC	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Ceries color CATEYE RR-550-WUW	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW	Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin Black CATEYE RR-550-WUW	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin Black CATEYE RR-550-WUW
Axle QR lever QR housing	Material Finish Material Finish Material Finish Material Finish Material Finish Color	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Ceries color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Control Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Ceries color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Carles color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW	Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin Black CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin Black CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW
Axle QR lever QR housing QR nut	Material Finish Material Finish Material Finish Material Finish Material Finish Material Finish Material JIS/CPSC	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Coriced Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Control Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Control Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA	Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin Black CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-551-WUA	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin Black CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-551-WUA
Axle QR lever QR housing QR nut Reflector	Material Finish Material Finish Material Finish Material Finish Material Color JIS/CPSC AS DIN weight	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Control Con	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Control Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin Black CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin Black CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW
Axle QR lever QR housing QR nut Reflector	Material Finish Material Finish Material Finish Material Finish Material Color JIS/CPSC AS DIN	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Coriced Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Cortest Color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW 747 g	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Control Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Ceries color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW 835 g	Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin Black CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-551-WUA	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin Black CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW 924 g
Axle QR lever QR housing QR nut Reflector Average (w/o QR, rim tape, tub	Material Finish Material Finish Material Finish Material Finish Material Color JIS/CPSC AS DIN weight eless tape, valve stem, ring)	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Control Con	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Control Aluminum Anodized Aluminum Series color CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin Black CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW	Aluminum Anodized Aluminum Anodized Aluminum Anodized Aluminum Anodized Resin Black CATEYE RR-550-WUW SW CATEYE RR-550-WUA SW CATEYE RR-317-WUA SW

BR

WH

Sai	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode		WH-RS500	WH-RS500	WH-RS330	WH-RS330	WH-RS11	WH-RS11
	EC	TL-F	TL-R	CL-F	CL-R	CL-F	CL-R
Color	1	Grey	Grey	Black	Black	Black	Black
Color	2	-	-	White	White	Silver	Silver
Front	/ Rear	Front	Rear	Front	Rear	Front	Rear
Brake	Туре	Rim brake	Rim brake				
Spe	eds	i,	10*/11	-	10*/11	-	10*/11
O.L.D.	. (mm)	100	130	100	130	100	130
Whee	el Size	622x15C	622x15C	622x15C	622x15C	622x15C	622x15C
	Height (mm)	24	24	30	30	24	24
Rim	Width (mm)	20.8	20.8	20.8	20.8	20.8	20.8
KIIII	Rim joint	Welded	Welded	Sleeved	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	Х	X	-	-	-	-
	Number	16	20	16	21	16	20
Spokes	Bladed	X	X	X	X	X	X
	Butted	X	X	X	X	-	-
Axle Fixin	g method	QR	QR	QR	QR	QR	QR
	129	-	-	-	-	-	-
	133	X	-	X	-	Х	-
	161	i	-	-	-		-
QR skewer length	163	-	X	-	X		X
(mm)	166	-	-	-	-	-	-
	168	-	X	-	X	-	Х
	170	-	-	-	-	-	-
	173	=	-	-	-	-	-
Axle Len	gth (mm)	108	141	108	141	108	141
Axle Diam	eter (mm)	14	14	9	10	9	10
	100 x 8	-	-	-		-	-
	100 x 12	=	-	-		-	-
Thru Axle	100 x 15	-	-	-		-	-
Length	110 x 20	-	-		-	-	-
x Inner Diameter	135 x 10	-	-	-	-	-	-
(mm)	135 x 12	=	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
	150 x 12	-	-	-	-	-	-
	Stainless ball	i		-	-	-	-
Bearing	Cup	Polish	Polish	Polish	Polish	Polish	Polish
	Cone	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	CBN finish	CBN finish
	CENTER LOCK	-	-	-	-	-	-
	CENTER LOCK mount			_	_	_	_
Disc mount	cover option				-	-	-
	140 mm Disc brake	_	_ `		_	_	-
	rotor compatible						
OPT		-	-	-	X	-	-
D2		-	-	-	-	-	-
	T RIM	-	X	-	X	-	X
Digital adjust	tment system	X	X	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-	Contact
	ease sleeve	X	X	X	X	- X	X
Kequires	rim tape	-	- -		* * *		X
Tire	Type	Tubeless	Tubeless	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	23-622 - 32-622
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum Black: Anodized
Rim	Finish	Anodized	Anodized	Painted	Painted	Black: Anodized Silver: Anodized	Silver: Anodized
	FIIIISII	Allouizeu	Allouized	ranneu	ranneu	White: Painted	White: Painted
	Material	Stainless steel	Stainless steel				
Spoke	Color	Black	Black	Black	Black	Black	Black
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Nipple	Color	Black	Black	Black	Black	Black	Black
	Material	-	Steel	-	Steel	-	Steel
FREEHUB body	Finish	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Alminium	Alminium	Steel	Steel	Steel	Steel
Axle	Finish	Anodized	Anodized	-	-	-	-
05.1	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
QR lever	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
On to the	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
QR housing	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
OD	Material	Resin	Resin	Resin	Resin	Resin	Resin
QR nut	Color	Black	Black	Black	Black	Black	Black
		CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW
	JIS/CPSC	SW	SW	SW	SW	SW	SW
Reflector	AC	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA
Reflector	AS	SW	SW	SW	SW	SW	SW
	DIN	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA
		SW	SW	SW	SW	SW	SW
Average	e weight eless tane, valve stem.	705 g	944 g	875 g	1,176 g	816 g	1,087 g
(w/o QR, rim tape, tub							
			* The adapter is		* The adapter is		* The adapter is

Ser Mode		SHIMANO WH-RS010	SHIMANO WH-RS010	SHIMANO WH-R501-A	SHIMANO WH-R501-A	SHIMANO WH-R501	SHIMANO WH-R501
SP		CL-F	CL-R	CL-F	CL-R	CL-F	CL-R
	1	Black	Black	Black	Black	Black	Black
Color	2	-	-	Silver	Silver	Silver	Silver
Front	/ Rear	Front	Rear	Front	Rear	Front	Rear
Brake		Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
Spe		-	10*/11	-	8/9/10	-	8/9/10
O.L.D.		100	130	100	130	100	130
Whee		622x15C	622x15C	622x15C	622x15C	622x15C	622x15C
	Height (mm)	24	24	24	24	24	24
Rim	Width (mm)	20.8	20.8	20.8 Sleeved	20.8 Sleeved	20.8	20.8 Sleeved
	Rim joint Brazed reinforcement	Sleeved -	Sleeved -	- Sieeved	- Sieeved	Sleeved -	sieeved -
	Number	20	24	20	24	20	24
Spokes	Bladed	-	-	X	X	-	-
Sportes	Butted	-	-	-	-	-	-
Axle Fixin	g method	QR	QR	QR	QR	QR	QR
	129	-	-	-	-	-	-
	133	Х	-	Х	-	Х	-
	161	-	-	-	-		-
QR skewer length	163	-	Х	-	X	-	Χ
(mm)	166	-	-	-	-	-	-
	168	-	Х	-	X	-	X
	170	-	-	-	-	-	-
	173	-	-	-		-	-
Axle Len	<u> </u>	108	141	108	141	108	141
Axle Diam		9	10	9	10	9	10
	100 x 8	-	-			-	-
	100 x 12	-	-	-		-	-
Thru Axle	100 x 15 110 x 20	-	-	-		-	-
Length x Inner Diameter	110 X 20 135 X 10	-	-	-	-	-	-
(mm)	135 x 10	-	-		-	-	-
(,	142 x 12	_	-			-	_
	150 x 12	_	-	-	-	_	_
	Stainless ball	-			-	-	-
Bearing	Cup	Polish	Polish	Polish	Polish	Polish	Polish
_	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
	CENTER LOCK	-	-	-	-	-	-
	CENTER LOCK mount			_	_	_	_
Disc mount	cover option	-	-		-	-	-
	140 mm Disc brake	_			_	-	_
	rotor compatible						
	BAL	-	-	-	-	-	-
OFFSE	rim T DIM		- X	-	-	-	-
Digital adjust			٨	-	-	-	-
	Hub	Contact	Contact	Contact	Contact	Contact	Contact
Seal	FREEHUB body	- Contract	Contact	-	Contact	-	Contact
Internal gre	ease sleeve	-	•	-	-	-	-
Requires	rim tape	Х	X	X	Х	X	Х
Tire	Туре	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
Tille	Recommended size	23-622 - 32-622	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	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Color	Black	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass	Brass
• •	Color	Silver -	Silver	Silver -	Silver	Silver -	Silver
FREEHUB body	Mat <mark>erial</mark> Fini <mark>sh</mark>	-	Steel -	-	Steel -	-	Steel -
	Material	- Aluminum	Aluminum	- Aluminum	Aluminum	- Aluminum	- Aluminum
Hub shell	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Axle	Finish	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
QR lever	Finish	Painted	Painted	Painted	Painted	Painted	Painted
OB 5	Material	Steel	Steel	Steel	Steel	Steel	Steel
QR housing	Finish	Painted	Painted	Painted	Painted	Painted	Painted
QR nut	Material	Resin	Resin	Resin	Resin	Resin	Resin
Qn nut	Color	Black	Black	Black	Black	Black	Black
	JIS/CPSC	CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW
		SW SW	SW SW	SW SW	SW SATEVE BRIDGE MAILA	SW SW	SW SW
Reflector	AS	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA
		SW CATEYE RR-317-WUA	SW CATEYE RR-317-WUA	SW CATEYE RR-317-WUA	SW CATEYE RR-317-WUA	SW CATEYE RR-317-WUA	SW CATEYE RR-317-WUA
	DIN	SW	SW	SW	SW	SW	SW
(w/o QR, rim tape, tub	e weight eless tape, valve stem,	818 g	1,102 g	820 g	1,069 g	820 g	1,069 g
lock No			* The adapter is needed to use				
, No			10-speed CS				

ROAD

BR

WH

Wheel (Disc Brake)

Ser	ries	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Mode		WH-R9170-C60	WH-R9170-C60	WH-R9170-C60	WH-R9170-C60	WH-R9170-C40	WH-R9170-C40
	EC	TL-F12	TL-R12	TU-F12	TU-R12	TL-F12	TL-R12
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
Color	2	-	-	-	-	-	-
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
		brake -	brake 10*/11	brake	brake 10*/11	brake	brake 10*/11
O.L.D.	eds (mm)	100	142	100	142	100	142
Whee		622x17C	622x17C	700C	700C	622x17C	622x17C
Wilco	Height (mm)	60	60	60	60	37	37
D'	Width (mm)	24	24	28	28	24	24
Rim	Rim joint	-	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-	-
	Number	24	24	24	24	24	24
Spokes	Bladed	X	X	X	X	X	X
Avla Eivin	Butted g method	X 12mm E-THRU	X 12mm E-THRU	X 12mm E-THRU	X 12mm E-THRU	X 12mm E-THRU	X 12mm E-THRU
ANICHAII	129	-	-	-	-	-	-
	133	-	-	-	-	-	-
	161	-	-	-	-		-
QR skewer length	163	-	-	-	4	-	-
(mm)	166	-	-	-	-	-	-
	168	-	-	-	-	-	-
	170	-	-	-	-		-
	173	-	- 142	-	142	-	- 142
Axle Len		100 15	142 15	100 15	142 15	100 15	142 15
Ахіе ріап	100 x 8	-	-	15	-	-	-
	100 x 12	Х	_	X		Х	-
Thru Axle	100 x 15	-	-	-		-	-
Length	110 x 20	-	-	-	-	-	-
x Inner Diameter	135 x 10	-	-	-	-	-	-
(mm)	135 x 12	-	-	-	-	-	-
	142 x 12	-	X	-	Х	-	X
	150 x 12	- X	V	- X	- X	- X	- X
Bearing	Stainless ball Cup	CBN finish	X CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
Bearing	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
	CENTER LOCK	X	X	X	X	X	X
	CENTER LOCK mount						
Disc mount	cover option	-	-	-	-	-	-
	140 mm Disc brake	X	x	Х	x	X	Х
ОРТ	rotor compatible		Х	-	X	_	Х
D2		X	X	X	X	-	-
OFFSE			-	-	-	-	Х
Digital adjust	tment system		·	-	-	-	=
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal gr		X	- X	-	-	- X	- X
Requires	rim tape Type	Tubeless	Tubeless	Tubular	Tubular	Tubeless	Tubeless
T:	3,7-	23-622	23-622	23-28"	23-28"	23-622	23-622
Tire	Recommended size	-	-	-	-	-	-
		32-622	32-622	28-28"	28-28"	32-622	32-622
Rim	Material	Carbon	Carbon	Carbon	Carbon	Carbon	Carbon
	Finish Material	Painted Stainless steel	Painted Stainless steel	Painted Stainless steel	Painted Stainless steel	Painted Stainless steel	Painted Stainless steel
Spoke	Color	Black	Black	Black	Black	Black	Black
M' · · · I ·	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Nipple	Color	Silver	Silver	Silver	Silver	Black	Black
FREEHUB body	Material	=	Titanium	-	Titanium	-	Titanium
,	Finish	- Aluminum	- Aluminum	- Aluminum	A luminum	Aluminum	- Aluminum
Hub shell	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Axle	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
OP !	Material	-	-	-	-	-	-
QR lever	Finish	-	-	-	-	-	-
QR housing	Material	-	-	-	-	-	-
4ousning	Finish	-	-	-	-	-	-
QR nut	Material	-	-	-	-	-	-
	Color	- CATEYE RR-550-WUW	- CATEYE RR-550-WUW	- CATEYE RR-550-WUW	- CATEYE RR-550-WUW	- CATEYE RR-550-WUW	CATEYE RR-550-WUV
	JIS/CPSC	SW	SW	SW	SW	SW	SW
Doflosto:	A.C.	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA
Reflector	AS	SW	SW	SW	SW	SW	SW
	DIN	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA
		SW	SW	SW	SW	SW	SW
Average	weight	745 g	902 g	671 g	829 g	721 g	865 g
w/o QR, rim tape, tub lock	ring)	7.13 9	* The adapter is		* The adapter is		* The adapter is
w/o QR, rim tape, tub lock		7.13 9		,	* The adapter is needed to use 10-speed CS		* The adapter is needed to use 10-speed CS

Wheel (Disc Brake)

Ser Mode		DURA-ACE WH-R9170-C40	DURA-ACE WH-R9170-C40	SHIMANO WH-RS770	SHIMANO WH-RS770	SHIMANO WH-RX830	SHIMANO WH-RX830
SPI		TU-F12	TU-R12	TL-F12	TL-R12	TL-F	TL-R
Color	1	Series color	Series color	Black	Black	Black	Black
	2		-		-		-
Front	/ Rear	Front CENTER LOCK disc	Rear CENTER LOCK disc	Front CENTER LOCK disc	Rear CENTER LOCK disc	Front CENTER LOCK disc	Rear CENTER LOCK disc
Brake	Туре	brake	brake	brake	brake	brake	brake
Spe	eds	-	10*/11	-	10*/11	-	10*/11
O.L.D.		100	142	100	142	100	135
Whee	l Size	700C	700C	622x17C	622x17C	622x17C	622x17C
	Height (mm)	37	37	28	28	35	35
Rim	Width (mm)	28	28	23	23	23	23
	Rim joint	-	-	Welded -	Welded	Welded -	Welded -
	Brazed reinforcement Number	24	- 24	24	24	24	24
Spokes	Bladed	X X	X X	X X	X X	X X	X X
Spokes	Butted	X	X	X	X	X	X
Axle Fixin	g method	12mm E-THRU	12mm E-THRU	12mm E-THRU	12mm E-THRU	QR	QR
	129	-	-	-	-	-	-
	133	-	-	-	-	X	-
l	161	-	-	-	-		-
QR skewer length	163	-	-	-	-	-	-
(mm)	166 168	-	-	-		-	- X
	170	-	-	-	-	•	- X
j ł	173	-	-	-			X
Axle Leng		100	142	100	142	108	146
Axle Diam		15	15	15	15	14	14
	100 x 8	-	-		·	-	-
[100 x 12	Х	-	X		-	-
Thru Axle	100 x 15	-	-	-		-	-
Length x Inner Diameter	110 x 20	-	-	-	-	-	-
(mm)	135 x 10 135 x 12	-	-	-	-	-	-
()	142 x 12	_	X		X		_
İ	150 x 12	-	-	-	-	-	-
	Stainless ball	Х	Χ		-	-	-
Bearing	Cup	CBN finish	CBN finish	CBN finish	CBN finish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN/Polish	CBN/Polish
	CENTER LOCK	X	X	X	X	X	X
Di	CENTER LOCK mount	-			-	-	-
Disc mount	cover option 140 mm Disc brake		*				
	rotor compatible	X	X	X	X	X	X
OPT		-	Х	-	Х	-	-
D2	rim	-	-	-	-	-	-
OFFSE		-	X	-	-	-	-
Digital adjust				-	-	-	-
Seal	Hub	Contact -	Contact	Contact -	Contact	Contact -	Contact
Internal gre	FREEHUB body		Contact	<u>-</u>	Contact -	X	Contact X
Requires				-	-	-	-
	Туре	Tubular	Tubular	Tubeless	Tubeless	Tubeless	Tubeless
T:		23-28"	23-28"	1000000		7.000.000	
Tire	Recommended size	-	-	25-622 - 38-622	25-622 - 38-622	25-622 - 38-622	25-622 - 38-622
ļ		28-28"	28-28"	6.1	6 1	6.1	
Rim	Material	Carbon	Carbon	Carbon+AL	Carbon+AL	Carbon+AL	Carbon+AL
 	Finish Material	Painted Stainless steel	Painted Stainless steel	Painted Stainless steel	Painted Stainless steel	Painted Stainless steel	Painted Stainless steel
Spoke	Color	Black	Black	Black	Black	Black	Black
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Nipple	Color	Black	Black	Black	Black	Black	Black
EDEETIID Pade	Material	-	Titanium	-	Steel	-	Steel
FREEHUB body	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 Material	Anodized	Anodized	Anodized	Anodized	Anodized Aluminum	Anodized Aluminum
QR lever	Finish	-	- -	-	-	Anodized	Anodized
—	Material	-	-	-	-	Aluminum	Aluminum
QR housing	Finish	-	-	-	-	Anodized	Anodized
00	Material	-	-	-	-	Resin	Resin
QR nut	Color	-	-	-	-	Black	Black
	JIS/CPSC	CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW	CATEYE RR-550-WUW
	J.3/CI 3C	SW SATEVE BRIDER	SW SATEVE BRIDER	SW SATEVE BRIDER	SW SATEVE BRIDER	SW SATEVE BRIDER	SW SATEVE BRIEFO WILL
Reflector	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
		CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA
	DIN	SW	SW	SW	SW	SW	SW
Average (w/o QR, rim tape, tube lock i	eless tape, valve stem,	626 g	774 g	735 g	904 g	829 g	993 g
IOCK	····y/		* The adapter is		* The adapter is		* The adapter is
No	te		needed to use 10-speed CS		needed to use 10-speed CS		needed to use 10-speed CS

ROAD

BR

WH

WH

Wheel (Disc Brake)

Ser		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode		WH-RX31-CL-F12	WH-RX31-CL-R12	WH-RX31-CL-F	WH-RX31-CL-R	WH-RS170	WH-RS170
SPI	1	CL-F12 Black	CL-R12 Black	CL-F Black	CL-R Black	CL-F12 Black	CL-R12 Black
Color	2	- DIdCK	DIACK -	DIdCK	DIdCK -	White	White
Front		Front	Rear	Front	Rear	Front	Rear
		CENTER LOCK disc	CENTER LOCK disc	CENTER LOCK disc	CENTER LOCK disc	CENTER LOCK disc	CENTER LOCK disc
Brake	туре	brake	brake	brake	brake	brake	brake
Spe		-	10*/11	-	10*/11	-	10*/11
O.L.D.		100	142	100	135	100	142
Whee		622x17C	622x17C	622x17C	622x17C	622x17C	622x17C
-	Height (mm) Width (mm)	24	24 23	24	24	24	24
Rim	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved
İ	Brazed reinforcement	-	-	-	-	-	-
	Number	24	24	24	24	28	28
Spokes	Bladed	-	-	-	-	-	-
	Butted	-	-	-	-	-	-
Axle Fixin		12mm E-THRU	12mm E-THRU	QR	QR	12mm E-THRU	12mm E-THRU
	129	-	-	-	-	-	-
	133	-	-	X	-	-	-
	161	-	-	-	-		-
QR skewer length (mm)	163 166	-	-	-	-	-	-
\'''''')	168	-	-	-	- X	-	-
ŀ	170	-	-	-			-
ŀ	173	-	-	-	X		-
Axle Leng		100	142	108	146	100	142
Axle Diam		15	15	15	15	15	15
	100 x 8	-	-	-	-	-	-
į	100 x 12	Х	-			х	-
Thru Axle	100 x 15	-	-	-		-	-
Length	110 x 20	-	-	-	-	-	-
x Inner Diameter	135 x 10	-	-	-	-	-	-
(mm)	135 x 12	-	- V		-	-	-
}	142 x 12 150 x 12	-	X		-	-	X -
	Stainless ball	-	_		-	-	-
Bearing	Cup	Polish	Polish	Polish	Polish	Polish	Polish
bearing	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
	CENTER LOCK	X	X	X	X	X	Х
İ	CENTER LOCK mount						
Disc mount	cover option	-		-	-	-	-
	140 mm Disc brake	x	х	Х	x	x	х
	rotor compatible						
OPT		-	-	-	-	-	-
D2 I			-	-	-	-	-
Digital adjust				_	_	_	-
	Hub	Contact	Contact	Contact	Contact	Contact	Contact
Seal	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal gre	ease sleeve	X	Х	X	X	Х	Х
Requires		X	Х	Х	X	Х	Х
ļ	Туре	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
Tire	Docommondo de ales	25-622	25-622	25-622	25-622	25-622	25-622
	Recommended size	- 38-622	- 38-622	- 38-622	- 38-622	- 38-622	- 38-622
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rim						Anodized (Black)/	Anodized (Black)/
	Finish	Anodized	Anodized	Anodized	Anodized	Painted (White)	Painted (White)
Snoko	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Spoke	Color	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Brass	Brass
	Color	Black	Black	Black	Black	Silver	Silver
FREEHUB body	Material	-	Steel -	-	Steel	-	Steel
-	Finish Material	- Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum
Hub shell	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Steel	Steel	Aluminum	Aluminum	Steel	Steel
Axle	Finish	-	-	Anodized	Anodized	-	-
QR lever	Material	-	-	Aluminum	Aluminum	-	-
Qr lever	Finish	-	-	Anodized	Anodized	-	-
QR housing	Material	-	-	Aluminum	Aluminum	-	-
ζ	Finish	-	-	Anodized	Anodized	-	-
QR nut	Material	-	-	Resin	Resin	-	-
	Color	- CATEYE RR-550-WUW	- CATEYE RR-550-WUW	Black CATEYE RR-550-WUW	Black CATEYE RR-550-WUW	- CATEYE RR-550-WUW	- CATEYE RR-550-WUW
	JIS/CPSC	SW	SW	SW	SW	SW	SW
5.0.	4.5	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA	CATEYE RR-550-WUA
Reflector	AS	SW	SW	SW	SW	SW	SW
İ	DIN	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA
		SW	SW	SW	SW	SW	SW
Average w/o QR, rim tape, tubo lock i	eless tape, valve stem,	873 g	1,072 g	899 g	1,093 g	942 g	1,149 g
	te		* The adapter is needed to use				* The adapter is needed to use

Wheel (Disc Brake)

c	ries	SHIMANO	SHIMANO
	el no.	WH-RX010	WH-RX010
SPEC		CL-F	CL-R
Color	1	Black	Black
2		White	White
Front	/ Rear	Front CENTER LOCK disc	Rear CENTER LOCK disc
Brake	е Туре	brake	brake
Spe	eds	-	10*/11
	. (mm)	100	135
Whee	el Size	622x17C	622x17C
	Height (mm)	24	24
Rim	Width (mm) Rim joint	Sleeved	Sleeved
	Brazed reinforcement	-	-
	Number	28	28
Spokes	Bladed	-	-
	Butted	-	-
Axle Fixin	ig method 129	QR	QR
	133	X	-
	161	-	-
QR skewer length	163	-	-
(mm)	166	-	-
	168	-	Х
	170	-	- V
Avla Lan	173 gth (mm)	108	X 146
	neter (mm)	10	10
7411	100 x 8	-	-
	100 x 12	-	-
Thru Axle	100 x 15	-	-
Length	110 x 20	-	-
x Inner Diameter (mm)	135 x 10 135 x 12	-	-
()	142 x 12	<u> </u>	-
	150 x 12	-	-,
	Stainless ball	-	-
Bearing	Cup	Polish	Polish
	Cone	CBN finish	CBN finish
	CENTER LOCK CENTER LOCK mount	X	Х
Disc mount	cover option	-	-
2.50	140 mm Disc brake		v
	rotor compatible	Х	X
	BAL	-	-
	rim ET RIM		-
	tment system		
	Hub	Contact	Contact
Seal	FREEHUB body	-	Contact
Internal gr	ease sleeve		Х
Requires	rim tape	X	X
Tire	Type Recommended size	Clincher 25-622 - 38-622	Clincher 25-622 - 38-622
	Material Material	Aluminum	Aluminum
Rim	Finish	Anodized (Black)/	Anodized (Black)/
		Painted (White)	Painted (White)
Spoke	Material	Stainless steel	Stainless steel
•	Color Material	Black Brass	Black Brass
Nipple	Color	Silver	Silver
EDEELIID k - J	Material	-	Steel
FREEHUB body	Fini <mark>sh</mark>	-	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Axle	Material Finish	Steel	Steel
	Material	Aluminum	Aluminum
QR lever	Finish	Painted	Painted
QR housing	Material	Steel	Steel
Qit ilousing	Finish	Painted	Painted
QR nut	Material	Resin	Resin
	Color	Black CATEYE RR-550-WUW	Black CATEYE RR-550-WUW
	JIS/CPSC	SW	SW
Reflector	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIM	CATEYE RR-317-WUA	CATEYE RR-317-WUA
	DIN	SW	SW
(w/o QR, rim tape, tub	e weight eless tape, valve stem, ring)	982 g	1,177 g
	ote		* The adapter is needed to use 10-speed CS

Head Parts

Ser	DURA-ACE				
Mode	Model no.				
Si	JIS ENGLISH				
Thr	ead	BC1"x24T.PT.I.			
Sealed cartri	dge bearings	Х			
Stack hei	37.6				
Lock nut	Material	Aluminum			
LOCK HUL	Finish	Anodized			
	Material	Aluminum			
Upper / Lower cups	Finish	Anodized			
Unner stem sens	Material	Aluminum			
Upper stem cone	Finish	Anodized			
Stem cone	Material	Aluminum			
Stem cone	Finish	Anodized			
Average	101 g				
No	te				

URBAN SPORT

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Front Derailleur	195	FD
Rear Derailleur	196	RD
Wheel (Disc Brake)	197	WH

Shifting/Brake Lever (Hydraulic disc brake)

Se	ries		METREA	METREA	
Mod	Model no.		ST-U5060-R	ST-U5060-L	
C-1		1	Series color	Series color	
Color		2	-	-	
Bracket cover color	1 2		Black	Black	
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER	
	Front	speeds	-	2	
	Front speeds Rear speeds		11	-	
		converter	-	-	
		tiple shifts ver / rear)	2	-	
	Compat	ible rear	Road 11-speed RD	-	
	Compati	ur type ble front	-	FD-6800/5800	
		ur type			
		mpatible g lever	-	-	
		n adjust	-	-	
	·	MULTI	_	_	
	l <u>.</u> .	RELEASE	-	-	
	Release function	INSTANT RELEASE	-	-	
		2WAY- RELEASE	-	-	
Shifting lever		With	-	-	
J	OPTICAL GEAR	With (remov-	-	-	
	DISPLAY	able) Without	Х	Х	
	Multi-	Bearing	X	Χ	
		uction	-	-	
	Shifting lever outer casing		SP41	SP41	
	Shifting lever cable	Polymer-			
		coated cable	-		
		OPTISLICK	Х	Х	
		SIL-TECH	-	-	
		Stainless	-	- 4	
		Steel	-	-	
	61.16.1	Included		-	
	Shifting lever	Pre			
	cable	assem-	X	Х	
	Lever size (Finger)			-	
		ose (Kit)	SM-BH59-JK-SS	SM-BH59-JK-SS	
		joint	Straight	Straight	
	Brake	1	Black	Black	
	hose	2	Diucil	Diack.	
	color (kit)			-	
Brake lever		nded brake per	BR-U5000	BR-U5000	
PI GRE IEVEL	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	
	Reach	Tool less	-	-	
	adjust	Tool	X	X	
		oleeding	Х	X	
		ke adjust	-	-	
		WAVE	-	-	
Clamp band		clamp PEC	-	-	
Clamp band		er (mm)	29.8-30.2	29.8-30.2	
		erial	Aluminum	Aluminum	
Bracket		ish	Painted	Painted	
Dualis Is.	Material		Aluminum	Aluminum	
Brake lever	Fin	ish	Painted	Painted	
Shifter lever body		ain	Aluminum	Aluminum	
Similar level bouy		ease	Steel & Resin	Steel & Resin	
Master cylinder		erial	Aluminum	Aluminum	
Finish			Painted	Painted X	
	a bard				
Clamp	band weight		X 743 g/pair		
Clam _i Average	band e weight ote		743 g/pair Need 10 mm spanner	743 g/pair Need 10 mm spanne	





Brake (Hydraulic disc brake)

Ser	METREA				
	Model no.				
Brake	Hydraulic disc brake				
	1	Series color			
Color	2	-			
	3	-			
Brake h	ose (kit)	SM-BH59-JK-SS			
Hose	Straight				
	1	Black			
Brake hose color (kit)	2	-			
ICE TECHI pad compa	NOLOGIES tible caliper	-			
	Standard 1	K02S-R			
Buoke Dad	Standard 2	-			
Brake Pad	Option 1	K04S-R			
	Option 2	-			
	10 mm mount	Х			
	15 mm mount	х			
Fixing bolt spec for	20 mm mount	Х			
rear mount	25 mm mount	Х			
	30 mm mount	Х			
	35 mm mount	Х			
Recommende	d brake lever	ST-U5060 BL-U5010 BL-U5000			
Recommende	d brake rotor	SM-RT500-SS			
0	il	SHIMANO Mineral			
ONE WAY	BLEEDING	Х			
	t type t with mount adapter)	Flat mount			
Pis	ton	2			
Piston r	naterial	Ceramic			
	MONO-BODY	-			
Caliper	Material	Aluminum			
	Finish	Painted			
	Material	Steel			
Caliper fixing bolt	Tool size	4mm			
	Anti loosen method	Spring washer			
Pad n	nount	Pad axle			
Average	161 g/pc				



BR

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RD

WH

Note

Brake Lever (Hydraulic disc brake)

Series		METREA	METREA	METREA
Model no.		BL-U5010-L	BL-U5000-R	BL-U5000-L
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size	e (Finger)	-	2.5	2.5
	1	Series color	Series color	Series color
Color	2	-	-	-
	3	-	-	-
Brake h	ose (Kit)	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose	joint	Straight	Straight	Straight
B l . l l (120)	1	Black	Black	Black
Brake hose color (kit)	2	-	-	-
Recommended	l brake caliper	BR-U5000	BR-U5000	BR-U5000
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		Х	Х	Х
Bereit of Prof	Toolless	-	-	-
Reach adjust	Tool	Х	Х	Х
Free stro	ke adjust	-	-	-
SERVO	WAVE	-	-	-
Cl l l	Open clamp	-	Х	Х
Clamp band	I-SPEC	-	-	-
ell.	Material	Steel	Steel	Steel
Clamp bolt	Finish	Plated	Plated	Plated
Bullet I.	Material	Aluminum	Aluminum	Aluminum
Brake lever	Finish	Painted	Anodized	Anodized
Maria Pala	Material	Aluminum	Aluminum	Aluminum
Master cylinder	Finish	Painted	Painted	Painted
Average weight		333 g/pc	133 g/pc	133 g/pc
Note		Use with ST-U5060-R Need 10mm spanner to fix the clamp bolt		

Shifting Lever

		METREA	I METREA
	ies	METREA	METREA
Mode		SL-U5000-R	SL-U5000-L
Color	1	Series color	Series color
	2	-	•
Shifte		RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front		-	2
Rear s	peeds	11	-
Compatible rea	derailleur type	Road 11-speed RD	-
Compatible fron	t derailleur type	-	FD-U5000-F FD-6800 FD-5800
Shifting lever	position adjust		-
Shifting leve	r cable adjust	Х	X
Max. multiple shift	s (Main lever/ rear)	4	-
	MULTI RELEASE	X**	X
Release function	INSTANT RELEASE	Х	X
	2WAY-RELEASE	Х	X
	with	-	-
OPTICAL GEAR DISPLAY	with (removable)	-	-
DISTERT	without	Х	Х
Multi-Bearing	construction	2	2
Shifting lever bracket	Material	Aluminum	Aluminum
Simuling lever bracket	Finish	Painted	Painted
Main lever body	Material	Aluminum	Aluminum
ivialii lever body	Finish	Painted	Painted
Dalanca lawar hl	Material	Steel & Resin	Steel & Resin
Release lever body	Finish	-	-
Chifting laws at 11	Material	Stainless steel	Stainless steel
Shifting lever cable	Finish	OPTISLICK	OPTISLICK
Recommended shifti	ng lever outer casing	OT-SP41	OT-SP41
Average	weight	220 g/pair	220 g/pair
No	ote	* I-SPEC II ** pull:shingle, Push:double	* I-SPEC II

URBAN SPORTS

Crankset

Sei	ries	METREA	METREA	
	el no.	FC-U5000-2	FC-U5000-1	
Woder no.		Series color	Series color	
Color	2	Series Color	Jeries Color	
Rear speeds		-	-	
		11 Super Narrow HG for	11 Super Narrow HG for	
	ble chain	11-speed	11-speed	
	ne (mm)	43.5	46.6	
P.C.D. left /		96	96	
	ms (pcs)	4 arms	4 arms	
Chain ring o	combination	46-32T	42T	
Q-fa	ictor	158	158	
	165	-	-	
	167.5	-	-	
Crank arm langth	170	Х	Х	
Crank arm length (mm)	172.5	-	-	
	175	Х	Х	
	177.5	-	-	
	180	-	-	
Optional chain guard	With chain guard	Х	Х	
Optional Chain guard	Without chain guard	-	-	
Cuank aum fiving halt	With	X	Х	
Crank arm fixing bolt	Without	-	-	
HOLLOWTECH II		-	-	
2-PIECE C	RANKSET	Х	Х	
HOLLOWTEC	H crank arm	-	-	
OCTA	ALINK	-	-	
HOLLO	WGLIDE	-	-	
	Outboard	Х	Х	
Compatible BB type	OCTALINK	-		
	Square	-	-	
	Threaded (normal)	SM-BBR60	SM-BBR60	
Recommended BB	Pressfit	SM-BB72-41B	SM-BB72-41B	
Axle length of BB-UN / ES (mm)	Threaded (normal)			
Threaded BB shell	68	х	X	
width (mm)	70	Х	X	
	Material	Aluminum	Aluminum	
Crank arm	Finish	Anodized	Anodized	
	Material	Steel	Steel	
Crank axle	Finish	Plated	Plated	
	Material	Aluminum	Aluminum	
Spider arm	Finish	Anodized	Anodized	
	Material	-	-	
Spider arm cover	Finish	-	_	
	Material	Aluminum	Aluminum	
Outer ring	Finish	Anodized	Anodized	
	Material	Anodized	Anodized	
Middle ring	Finish	_	-	
	Material	Aluminum	-	
Inner ring	Finish	Anodized	-	
Outer / middle ring fixing bolt	Material	SUS	SUS	
	Finish	-	-	
Inner ring fixing bolt	Material	-	-	
	Finish	-	-	
	bolt included	Х	Х	
	weight w/o BB)	1,036 g	912 g	
No	ote	Chain guard Material: Aluminum Finish: Anodized	Chain guard Material: Aluminum Finish: Anodized	

Front Derailleur

Sei	METREA				
Mode	FD-U5000-F				
Color		1	Series color		
Color	2		-		
Carrella	Front		2		
Speeds	Re	ear	11		
Compati	Compatible chain				
Action	TOP 9	WING	-		
Action	Down	Swing	х		
	Clamp	28.6	-		
Mount	Band	31.8	-		
Wount	(mm)	34.9	-		
	Braze	ed-On	Х		
Top-Pull exc	usive optio	n	-		
Chain li	Chain line (mm)				
Chain st	63-66				
Top gea	Top gear teeth				
Total c	14T				
Applicable Top-Mi	-				
Angled clamp	Angled clamp band design				
Multi-Bearing	-				
Link bu	ushings		-		
Front clamp band	Material		-		
Hont clamp band	Fir	nish	-		
Rear clamp band,	Material		Aluminum		
base bracket	Finish		Painted		
Outer link	Mat	erial	Aluminum		
Outer link	Fir	ish	Painted		
Inner link	Mat	erial	Aluminum		
iiiilei iiiik	Fir	ish	Painted		
Chain guide	Mat	erial	Steel		
Chain guide	Fir	ish	Chrome plated		
Cable fixing bolt	Mat	erial	Stainless steel		
Cable lixing bolt	Fir	ish	-		
Stroke Adjusting	Mat	erial	Steel		
Screw	Fir	nish	Chrome plated		
Average (Band type: L size, D	e weight Pirect type: v	w/o bolt)	94 g		
No	Note				

ST

BR

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DD

WH

Rear Derailleur

Ser		METREA				
Mode	RD-U5000-SS					
Pulley	SS					
T unes	1					
Color						
Rear s	Rear speeds					
Compati	-	11 HG-X11				
	Direct attachment (Conventional)	-				
Mount	Riveted adapter (Road type)	-				
	Riveted adapter (BMX-Track type)	-				
Cable a	djuster	Х				
Max. front	difference	14T				
Total ca	apacity	35T				
	Max.	32T				
Low sprocket	Min.	28T				
	Max.	11T				
Top sprocket	Min.	11T				
Fluoric coated	link bushings	2				
	G pulley bearing	-				
	T pulley bearing	-				
	Teeth	11T				
Pulley	Bolts material	Steel				
	Sunken type pulley bolt	х				
	Material	-				
Bracket	Finish	-				
	Hollow axle	-				
B-axle	Material	SUS				
	Finish					
	Hollow axle	-				
B-axle 2	Material	-				
	Finish	-				
	Material	Aluminum				
Bracket body	Finish	Painted				
	Material	Steel				
P-axle	Finish	Plated				
	Material	Aluminum				
Plate body	Finish	Painted				
	Material	Aluminum				
Outer link	Finish	Painted				
	Material	Steel				
Inner link	Finish	Painted				
_	Material	Steel				
Outer plate	Finish	Painted				
	Material	Steel				
Inner plate	Finish	Painted				
Average	weight	280.5 g				
	ote					



URBAN SPORTS

Wheel (Disc Brake)

no. C 1 2 Rear	METREA WH-U5000 CL-F Series color	METREA WH-U5000 CL-R Series color	METREA WH-U5000 CL-F12 Series color	METREA WH-U5000 CL-R12
1 2 Rear				
2 Rear	Series color	Series color	Series color	
Rear	-			Series color
		-	-	-
Tuno.	Front CENTER LOCK disc	Rear CENTER LOCK disc	Front CENTER LOCK disc	Rear CENTER LOCK disc
ype	brake	brake	brake	brake
ds	-	11	-	11
O.L.D. (mm)		135	100	142
Size	622x17C	622x17C	622x17C	622x17C
Height (mm)	40	40	40	40
Width (mm)			23	23
			Sleeved	Sleeved
			-	-
				24
				X
				E-THRU
				-
	Х	-	Х	-
	-	-	-	4 -
163	-	-	-	
166	-	-	-	-
168	-	Х	-	X
170	-	-	-	-
173	-	X	-	X
th (mm)	108	146	100	142
ter (mm)	9	10	12	12
100 x 8	-	-	-	
	-	-	X	·
				-
				-
				X
				-
	_			_
	Polish	Polish	Polish	Polish
	CBN finish	CBN finish	CBN finish	CBN finish
CENTER LOCK	Х	X	Х	Х
CENTER LOCK mount				
cover option	-	-		-
140mm disc brake	X	-	X	_
				-
				-
_			-	-
	Contact	Contact	Contact	Contact
	-		-	Contact
_	X		Х	Х
im tape	X	Х	X	Х
Туре	Clincher	Clincher	Clincher	Clincher
	25-622	25-622	25-622	25-622
Recommended size		-	-	-
Material				38-622
				Aluminum Anodized
				Stainless steel
			Polished	Polished
Material	Aluminum	Aluminum	Aluminum	Aluminum
Color	Anodized	Anodized	Anodized	Anodized
Material	-	Steel	-	Steel
Finish	-	-	-	-
Material	Aluminum	Aluminum	Aluminum	Aluminum
Finish	Anodized	Anodized	Anodized	Anodized
Material	Steel	Steel	Steel	Steel
Finish	-	-	-	-
Material	Aluminum	Aluminum	-	-
				-
				-
				-
			-	-
			CATEVE DD-550 WILLIAN	CATEYE RR-550-WUW
JIS/CPSC				SW
				CATEYE RR-550-WUA
AS	SW	SW SW	SW	SW
DIN	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA	CATEYE RR-317-WUA
DIN	SW	SW	SW	SW
weight less tape, valve stem, ng) e	1,093 g	1,287 g	1,071 g	1,261 g
	Height (mm) Width (mm) Rim joint razed reinforcement Number Bladed Butted method 129 133 161 163 166 168 170 173 h (mm) er (mm) 100 x 8 100 x 12 100 x 15 110 x 20 135 x 10 135 x 12 142 x 12 150 x 12 Stainless ball Cup Cone CENTER LOCK CENTER LOCK CENTER LOCK Material Finish	Height (mm)	Height (mm)	Height (mm)

ST

BR

BL

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FC

ED

RD

WH



GENERAL

	Page
Chain	200 CN
Chain Quick Link	200 SMCN
Disc Brake Rotor	201 RT
Disc Brake Hose	202 вн
Disc Brake Rotor Adapter	203 RTAD
Outer Casing	203 от
Cable adjuster	204 SMCB SMCA
POWER MODULATOR	204 PM
Hub Dynamo	205 DH
Light	211 📭
Light (SMRTX2)	214 SMRTX2
E-THRU axle (AX)	215 SMAX
Cycle Computer	216 sc
Pedal (SPD)	217 PD
Pedal (CLICK'R)	218 PD
Pedal (Flat Pedal)	219 PD
Pedal (SPD-SL)	219 PD

Chain

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CN-HG901-11	CN-HG701-11	CN-HG601-11	CN-E6090-10	CN-HG95	CN-HG54
Туре	HG-X11	HG-X11	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
E-BIKE RD system compatible	Х	х	Х	Х	-	-
Pin link plate	SIL-TEC	SIL-TEC	-	SIL-TEC	SIL-TEC	Gray
Roller link plate	SIL-TEC	SIL-TEC	SIL-TEC	SIL-TEC	SIL-TEC	Brown
Roller	SIL-TEC	-	-	-	-	-
Chromizing treatment link pin	Х	х	Х	Х	Х	Х
Hollow pin	Х	-	-	-	-	-
Average weight (114 links)	247 g	257 g	257 g	276 g	273 g	273 g
Note					_	

Series	ULTEGRA	ULTEGRA	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CN-6701	CN-6600	CN-HG93	CN-E6070-9	CN-HG53	CN-HG71
Туре	HG 10-speed	HG 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG
E-BIKE RD system compatible	-	-	-	X	-	-
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 link pin	х	Х	х	х	Х	Х
Hollow pin	-	-	-	-	-	-
Average weight (114 links)	267 g	273 g	299 g	276 g	299 g	324 g
Note		For triple				

Series	SHIMANO	NEXUS
Model no.	CN-HG40	CN-NX10
Туре	HG	Single speed 1/2"x1/8"
E-BIKE RD system compatible		
Pin link plate	Gray	-
Roller link plate	Brown	-
Roller		-
Chromizing treatment link pin	-	-
Hollow <mark>pin</mark>	-	-
Average weight (114 links)	324 g	-
Note		

Chain Quick Link

Series	SHIMANO
Model no.	SM-CN900-11
Туре	HG 11-speed
Pin link plate	SIL-TEC
Roller link plate	-
Roller	-
Chromizing treatment link pin	X
Hollow pin	-
Note	QUICK-LINK for SHIMANO 11-speed chain

GENERAL

Disc Brake Rotor

Ser	ies	XTR/SAINT	XTR/SAINT	SHIMANO	SHIMANO	SAINT/DEORE XT	SAINT/DEORE XT
Mode	el no.	SM-RT99	SM-RT99-A	SM-RT900	SM-RT800	SM-RT86	SM-RT81
CENTER LOCK		Х	х	х	х	-	Х
6-bolt (P.C	.D. 44mm)	-	-	-	-	x	-
ICE TECHN	IOLOGIES	Х	Х	Х	Х	Х	Х
ICE TECHNOLO	OGIES FREEZA	х	х	х	x	-	-
	203 mm	Х	-	-	-	X	X
Outside diameter	180 mm	Х	-	-	-	х	Х
Outside diameter	160 mm	х	-	Х	х	х	X
	140 mm	-	X*	Х	х	-	X*
Alloy lo	ock ring	Х	х	Х	Х	X	Х
Adapter	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Adapter	Finish	Painted	Painted	Anodized	Painted	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	Polished	Polished	Polished	Polished	Polished
Dad sammatibility	Metal	X	X	Х	X	X	X
Pad compatibility	Resin	X	X	х	X	X	X
Average weight (w/o lock ring)		173.0g (203mm) 132.3g (180mm) 118.1g (160mm)	95.0g (140 mm)	118g (160 mm) 100g (140 mm)	128g (160 mm) 108g (140 mm)	187.0 g (203 mm) 154.0 g (180 mm) 135.0 g (160 mm)	173.0 g (203 mm) 149.0 g (180 mm) 122.0 g (160 mm) 100.5 g (140 mm)
No	te	w/ Radiator fin	w/ Radiator fin *for rear only in MTB usage		-	With anti loosen tightening plate	*for rear only in MTB usage

Ser	ies	DEORE XT	SHIMANO	SLX/DEORE	DEORE	METREA	SHIMANO
Mode	el no.	SM-RT76	SM-RT70	SM-RT66	SM-RT64	SM-RT500-SS	SM-RT56
CENTER	RLOCK	-	X	-	Х	Х	-
6-bolt (P.C.	.D. 44mm)	Х	-	X	-	-	х
ICE TECHN	IOLOGIES	-	X	-	-	Х	-
ICE TECHNOLO	OGIES FREEZA		-	-	-	-	-
	203 mm	X	X	X	X	-	-
Outside diameter	180 mm	X	X	х	Х	-	Х
Outside diameter	160 mm	×	Χ	x	X	-	Х
	140 mm	-	-	-	-	X	-
Alloy lo	ock ring	-	-	-	-	Х	-
Adamtau	Material	Aluminum	Alloy	-	Aluminum	Allminum	-
Adapter	Finish	Painted	Painted	-	Painted	Painted	-
Rotor	Material	Stainless steel	Stainless steel/ Aluminum/ Stainless steel	Stainless steel	Stainless steel	Stainless steel/ Aluminum/ Stainless steel	Stainless steel
	Finish	Polished	Polished	Polished	Polished	Polished	Polished
Pad compatibility	Metal	х	X	х	Х	X	-
Resin	Resin	Х	X	Х	Х	Х	Х
Average weight	(w/o lock ring)	209 g (203 mm) 169 g (180 mm) 141 g (160 mm)	197 g (203 mm) 163 g (180 mm) 133 g (160 mm)	-	-	102.9 g	-
No	te	With anti loosen tightening plate	-	With anti loosen tightening plate	-	-	With anti loosen tightening plate

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Disc Brake Rotor

Ser	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-RT54	SM-RT30	SM-RT26	SM-RT10	SM-RTC60
CENTE	R LOCK	Х	Х	-	Х	-
6-bolt (P.C	.D. 44mm)	-	-	Х	-	-
ICE TECH	NOLOGIES	-	-	-	-	-
ICE TECHNOL	OGIES FREEZA	-	-	-	-	-
	203 mm	-	-	-	-	-
Outside diameter	180 mm	Х	Х	Х	Х	-
Outside diameter	160 mm	Х	Х	Х	Х	Х
	140 mm	-	-	-	-	-
Alloy lo	Alloy lock ring		-	-	-	-
Adontos	Material	Aluminum	Stainless steel	-	Steel	Steel
Adapter	Finish	Painted	Painted	-	Painted	Painted
Rotor	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
KOLOF	Finish	Polished	Polished	Polished	Polished	Polished
Dad assessabilities	Metal	-	-	-	7-	X
Pad compatibility	Resin	Х	Х	Х	X	X
Average weight (w/o lock ring)		-	-	-	-	-
Note		-	-	With anti loosen tightening plate		Disc brake rotor is fixed by 5-bolts with 74 mm PCD.

Disc Brake Hose

Sei	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBS	SM-BH90-SB	SM-BH90-SS	SM-BH59-JK-SS
	1	Black	Black	Black	Black	Black	Black
Color	2		-	White	White	White	White
	3	-		-	-	-	-
Hose inint	Brake lever	Straig <mark>ht</mark>	Straight	Straight	Straight	Straight	Straight
Hose joint	Brake caliper	Banjo	Banjo	Banjo	Banjo	Straight	Straight
Rigi	dity	High power	High power	High power	High power	High power	Standard
	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
Ponio	Length	Standard	Long	Standard	Standard	-	-
Banjo	Banjo bolt length	Long	Short	Short	Long	-	-
	Banjo bolt material	Steel	Steel	Steel	Steel	-	-
Connecting bolt	Material	Stainless	Stainless	Stainless	Stainless	Stainless	Stainless
No	ote						

Ser	SHIMANO				
Mode	el no.	SM-BH59-SB			
	1	Black			
Color	2	White			
	3	-			
	Brake lever	Straight			
Hose joint	Brake caliper	Banjo			
Rigi	Rigidity				
	Material	-			
Bania	Length	-			
Banjo	Banjo bolt length	-			
	Banjo bolt material	-			
Connecting bolt	Connecting bolt Material				
No	Note				

GENERAL

Disc Brake Rotor Adapter

Ser	ries	SHIMANO			
Mode	el no.	SM-RTAD05			
	1	Black			
Color	2	-			
	3	-			
Lock ring	Туре	External serration			
LOCK TING	Material	Steel			
Rotor mou	Rotor mount method				
	-				
6	SM-RT76	-			
Compatibility (Rotor)	SM-RT66	Х			
	SM-RT56	Х			
	F20 Thru	Х			
	F15 E-THRU	Х			
	F9 QR	Х			
Compatibility (Axle)	R12 E-THRU	Х			
	R12 Thru	Х			
	R10 Thru	Х			
	R10 QR	х			
No	Use this disc brake rotor adapter to attach the 6-bolt mount type rotor to CENTER LOCK mount type hub. Cannot be used with the 6-bolt rotor that is installed with an Aluminum adapter. (SM-RT86/76)				



Outer Casing

Se	eries	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Мос	Model no.		OT-SP41	OT-SP40	OT-SIS40
	Black	Х	Х	Х	Х
	White	Х	Х	Х	х
	Yellow	-	х	-	-
Color	Red	Х	X	-	-
Color	Blue	-	х	-	-
	Green	-	х	-	-
	Orange	-	x	-	-
	High-tech gray	X	х	-	-
Outer	SP type	-	х	х	-
Outer	Coil type	х	-	-	x
Liner	Material	Polyethylene	Polyethylene	Polyethylene	Polyethylene
_	Special grease	Х	Х	-	-
Cable grease	Premium grease	-	-	Х	х
	Entirely greased	Х	Х	-	-
N	lote				

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Cable adjuster

Sei	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	SM-CB90	SM-CB70	SM-CA70	SM-CA50
Shiftin	g cable	-	-	х	х
Brake	cable	х	X	-	-
Quick release function		Х	-	-	-
Outer adjust bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum
Outer adjust boil	Finish	Anodized	Anodized	Anodized	Anodized
D. d.	Material	Aluminum	Aluminum	Aluminum	Resin
Body	Finish	Anodized	Anodized	Anodized	-
OB	Material	Stainless steel	-	-	-
QR	Finish	-	-	-	-
No	ote				

POWER MODULATOR

Se	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mod	el no.	SM-PM70	SM-PM60	SM-PM50	SM-PM40
Modula	tor level	Standard	High*	Standard	Standard
Mour	it type	Lead pipe	Outer casing	Outer casing	Lead pipe
Available lead pipe	90°	Х	-	-	х
angle	135°	X	-	-	Х
	V-BRAKE	X**	X**	-	X**
	Mechanical disc brake (MTB)	-		X**	-
	Mechanical disc brake (Road)	-	-	-	-
Compatible Brake	Caliper (NEW SUPER SLR)	·	-	-	-
	Caliper (SUPER SLR)	-		-	-
	Cantilever brake	-	-	-	-
	Roller brake	-	-	-	-
	V-BRAKE 4-finger	X***	X***	X***	X***
Compatible Brake	V-BRAKE 3-finger	X***	X***	X***	X***
Lever	V-BRAKE 2-finger	Х	x	х	x
	Road		-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum
Body	Finish	Anodized + Laser Marking	Barrel and Sticker	Barrel and Printed	Barrel and Sticker
Lead pipe	Mater <mark>ial</mark>	Stainless steel	-	-	Stainless steel
Ne	ote	** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	* City use for Japan market ** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake

Ser	ies		DEORE XT	DEORE XT	DEORE LX	DEORE LX	DEORE LX	ALIVIO
Mode			DH-T8000-3D	DH-T785-1D	DH-T675	DH-T670-3N	DH-T670-2N	DH-T4050-1D
111000		'ZO	X	X	X	X	-	X
	TP		-	-	-	-	-	-
Regulation	<u>.</u> Ji		_	_	_	_	_	
			-	-	-	-	-	-
	Oth							
		1	Series color	Silver	Silver	Silver	Silver	Silver
Color		2	-	Black	Black	Black	Black	Black
		3	-	-	-		-	
Ту			Disc brake	Disc brake	Disc brake	Regular	Regular	Disc brake
CENTER LOCK		e	Х	Х	Х	-	-	X
Voltag			6	6	6	6	6	6
Outpu			3	1.5	3	3	2.4	1.5
	26-28 inch		Х	-	Х	Х	Х	-
	20-28 inch		-	Х	-	-		-
	18-28	inch	-	-	-	<u> </u>	-	Х
	16-28	inch	-	-	-	-	-	-
Wheel size	24-28	3 inch	-	-	-	-		-
	20-24	linch	-	-	-	-	-	-
	16-20) inch	-	-			-	-
	Compatil size	ole wheel (mm)	(646-716)	(492-716)	(646-716)	(646-716)	(646-716)	(448-716)
QR t	уре		Х	Х	X	Х	Х	X
Nut	type		-	-	-	-	-	-
O.L.D.	(mm)		100	100	100	100	100	100
Flange Dist	ance (mm)		52.1	54	52.1	60	60	51
Offset	Offset (mm)		4	3.1	4	0	0	1.9
Hole P.C.	Hole P.C.D. (mm)		70	57	70	70	70	67
Axle leng	ıth (mm)		108	108	108	108	108	108
	Spoke size		#14	#14	#14	#14	#14	#14
	24H		-	-	-	-	-	-
	28H		-		-	-	-	-
Spoke hole	Finish		Х	Х	Х	Х	Х	Х
	36H		Х	Х	Х	Х	Х	Х
Se			Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact
	More	High		-	-	-	-	-
Roller brake	than 26	Standard			-	_	-	
modulator grade	inch			-			-	-
<u> </u>		inch	-	-	-	-	-	-
		ype	-	-	-	-	-	-
Electric power output		ype		-	-	-	-	-
connector		ype	Х	Х	Х	Х	Х	X
		ners	-	-	-	-	-	-
Hub shell		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Fin	ish	Anodized & Painted	Anodized & Painted	Anodized & Painted	Anodized & Painted	Anodized & Painted	Painted
	Axle	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
		Finish	Chromating	Zinc plated				
		Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	QR lever	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	E-Coating
		Color	Black	Black	Silver	Silver	Silver	Black
QR	QR	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
"	housing	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	E-Coating
	OP n+	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	QR nut	Finish	-	-	-	-	-	-
	QR	129	-	-	-	-	-	-
	Skewer Length (mm)	133	х	Х	х	х	х	Х
Average			503 g	425 g	559 g	550 g	550 g	565 g
			505 g	72.3	333 9	330 9	330 g	* For LED light use
Note								only

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Ser	ies		ALIVIO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.		DH-T4000-1N	DH-3D72	DH-3D37-QR	DH-3D37-NT	DH-3D32-QR	DH-3D32-NT
	StV	ZO	Х	Х	Х	Х	Х	Х
	TPO	GBi	-	Х	-	-	-	-
Regulation	JI		-	-	-	-	-	-
	Oth		-	-	-	-	-	-
	1		Silver	Silver	Silver	Silver	Clear	Clear
Color			Black	Black	Black	Black	Black	Black
COIOI	3		-	-	-	-	-	-
		,		Disc brake	Disc brake	Disc brake	Disc brake	Disc brake
			Regular -	X	X	X		- Disc brake
CENTER LOCK		e	6		6	6		
Volta				6			6	6
Outpu			1.5	3	3	3	3	3
	26-28		-	Х	-	-	-	-
	20-28		Х	-	-	-		-
	18-28		-	-	-	_	-	-
	16-28	inch	-	-	X	X	Х	X
Wheel size	24-28	inch	-	-	-	-	·	-
	20-24	linch	-	-	-	-	-	-
	16-20) inch	-	-	-	-		-
		ole wheel	(448-716)	(646-716)	(400-716)	(400-716)	(400-716)	(400-716)
00.0	size ((ınm)						-
QR1			X	Х	Х	-	Х	
Nut			-	-		Х	-	X
O.L.D.			100	100	100	100	100	100
Flange Dist			56.0	52.1	51	51	51.1	51.1
Offset	Offset (mm)		0	3.8	4	3.6	4	3.6
Hole P.C.D. (mm)		67	70	74	74	74	74	
Axle leng	gth (mm)		108	108	108	140	108	140
Spok	e size		#14	#14	#14	#14	#14	#14
	24H		-	-	-	-	-	-
Carlo hala	28H		-	-	-	-	-	-
Spoke hole	Finish		X	Х	Х	Х	Х	Х
	36	5H	Х	Х	Х	Х	Х	Х
Se	al		Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact
	More	High	-	-	-	-	-	-
Roller brake	than 26 inch	Standard		_	_	-	_	_
modulator grade		inch						
			•	-	-	-	-	-
	J1 t	_	•	-	-	-	-	-
Electric power output connector		ype	-	-	-	-	-	-
connector		ype	X	Х	Х	Х	X	Х
	Oth		-	-	-	-	-	-
11. 1	Mat	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Fin	ish	Painted	Anodized & Painted / Anodized	Painted	Painted	Painted	Painted
		Material	Steel	Steel	Steel	Steel	Steel	Steel
	Axle							
		Finish	Zinc plated	Zinc plated	Zinc plated	Manganese Phosphate Coated	Zinc plated	Manganese Phosphate Coated
		Material	Aluminum	Aluminum	Steel	-	Steel	-
	QR lever	Finish	E-Coating	Anodized	Nickel plated	-	Nickel plated	
		Color	-	Silver / Black	-	-	-	-
OP.	QR	Material	Steel	Aluminum	Steel	-	Steel	-
QR	QK housing	Finish	E-Coating	Anodized	Nickel plated	-	Nickel plated	-
	_	Material	Resin & Steel	Resin & Steel	Resin & Steel	-	Resin & Steel	-
	QR nut	Finish	-			-		-
	QR	129		-	-	-	-	
	Skewer	123	-	-	-	-	-	-
	Length (mm)	133	X	х	X	-	x	-
A	(mm)		F90 ~	FF0 ~	650 ~	COO ~	COF ~	705 ~
Average	weignt		580 g	559 g	650 g	680 g	685 g	705 g
No	te		* For LED light use only					
		Omy.				<u>L</u>		

	•		CUINANIO	CARREO	CUINANIO	A LEINIE	ALEME	NEVUE
	ries		SHIMANO	CAPREO	SHIMANO	ALFINE	ALFINE	NEXUS
Mode			DH-3N72	DH-F703	DH-F703-S	DH-S701	DH-S501	DH-C6000-3N-NT
	StV	/ZO	Х	Х	Х	X	X	Х
Regulation	TP	GBi 	-	-	-	-	-	X
	JI	IS	-	-	-	-	-	-
	Oth	ners	-	-	-	-	-	-
	1	1	Silver	Silver	Silver	Silver	Silver	Silver
Color	- 7	2	Black	-	-	Piano Black	Piano Black	Black
	3	3	-	-	-	-	-	-
Ту	pe		Regular	Regular	Regular	Disc brake	Disc brake	Regular
CENTER LOCK	C mount typ	e	-	-	-	х	X	-
Volta	ge (V)		6	6	6	6	6	6
Outpo	ut (W)		3	3	3	1.5	3	3.0
	26-28	3 inch	Х	-	-	-	Х	-
	20-28	3 inch	-	-	-	х		
	18-28	3 inch	-	-	-	A 1	-	-
	16-28	3 inch	-	-	-			Х
Wheel size		3 inch	-	-	-	-		-
		4 inch	-	-	-	-	-	-
) inch	-	Х	х		-	<u>-</u>
		ble wheel						
00.	size		(646-716)	(400-536)	(400-536)	(492-716)	(646-716)	(400-716)
	type		X	X	X	Х	X	-
	type		-	-		-	-	X
	. (mm)		100	74	74	100	100	100
	Flange Distance (mm)		60.0	44.6	44.6	54	52.1	60.0
	t (mm)		0	0	0	3.1	3.8	1.0
Hole P.C.D. (mm)		70	74	74	57	70	74	
Axle len	gth (mm)		108	82	82	108	108	140
Spok	Spoke size		#14	#14	#14	#14	#14	#14
	24H		-	X	Х	-	-	-
Spoke hole	28H		-	-	Х	-	-	X
Jene noie	Fin	ish	X	-	-	Х	Х	Х
	36	6H	X		-	Х	X	Х
Se	eal		Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact
	More	High		-	-	-	-	-
Roller brake modulator grade	than 26 inch	Standard			-	-	-	-
inodulator grade		inch		-	-	_	-	-
		уре		-	-	-	-	-
Electric name:		уре		-	-	-	-	-
Electric power output connector		type	X	X	X	X	X	X
		ners		-	-		-	-
		erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell		nish						
	rin		Anodized & Painted	Anodized	Painted	Anodized	Anodized	Painted
	Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	AVIC	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Manganese Phosphate Coated
		Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	-
	QR lever	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
		Color	Silver	Black	Black	Silver	Silver	-
QR	QR	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	-
	housing	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
	00	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	-
	QR nut	Finish	-	-	-	-	-	-
	QR	129	-	-	-	-	-	-
	Skewer Length (mm)	133	х	Х	х	х	х	-
Average	weight	l	560 g	590 g	590 g	430 g	564 g	712 g
			500 g	590 g	330 g	* For LED light use	304 g	/12 y
Note						only		

CN

SMCN

RT

ВН

RTAD

OT

SMCB SMCA

PM

DH

LP

SMRTX2

SMAX

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ID

Ser	ies		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Mode	l no.		DH-C6000-2N-NT	DH-C6000-2R	DH-C6000-1R	DH-C6000-1N	DH-C3000-3N-QR	DH-C3000-3N-NT
	StV	ZO ZO	-	-	Х	Х	Х	Х
	TPC	GBi	-	-	-	-	Х	Х
Regulation	JI	S	-	-	-	-	-	
	Oth	ers	-	-	-	-	-	-
	1	l	Silver	Silver	Silver	Silver	Silver	Silver
Color		2	Black	Black	Black	Black	Black	Black
	3	3	-	-	-	-	-	-
Туј	oe .		Regular	Hub Roller Brake	Hub Roller Brake	Regular	Regular	Regular
CENTER LOCK	mount typ	e	-	-	-	-	-	
Voltag	je (V)		6	6	6	6	6	6
Outpu	it (W)		2.4	2.4	1.5	1.5	3.0	3.0
	26-28	inch	-	Х	Х	-	-	-
	20-28	inch	-	-	-	х		-
	18-28	inch	-	-	-		-	-
ĺ	16-28	inch	Х	-	-	-	Х	Х
Wheel size	24-28	inch	-	-	-	-		-
	20-24	inch	-	-	-	-	-	-
	16-20	inch	-	-	-	-	-	-
	Compatib		(400-716)	(646-716)	(646-716)	(448-716)	(400-716)	(400-716)
	size ((mm)						
QR t			-	-	- V	- V	X	- V
Nut			X	X	X	X	-	X
O.L.D.			100	100	100	100	100	100
Flange Dist			60.0	58.1	58.1	56.0	60.0	60.0
Offset (mm)			1.0	4.7	4.7	0	0.6	1.0
Hole P.C.D. (mm)		74	76	76	67	74	74	
	Axle length (mm)		140	140	140	140 #14	108	140
зроке П	Spoke size		#14	#14	#14	#14	#14	#14
-	24H 28H		-	-	-	-		- X
Spoke hole	Finish			X	X	X	- X	X
ŀ	36H		X	X	X	X	X	X
l		""	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact
36	More High		Jingie contact	X	X	-	-	-
Roller brake	than 26	Standard			X			
modulator grade	inch			Х		-	-	-
	20-24		-	-	-	-	-	-
	J1 t	$\overline{}$		-	-	-	-	-
Electric power output connector	J2 t		-	-	-	-	-	-
	_	ype	Х	Х	X	X -	Х	Х
	Oth	erial	- Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum
Hub shell	Fin		Painted	Painted	Painted	Painted	Painted	Painted
	Fin	Material	Steel	Steel	Steel	Steel	Steel	
	Axle	Finish	Manganese	Manganese	Manganese	Manganese	Manganese	Steel Manganese
			Phosphate Coated	Phosphate Coated	Phosphate Coated	Phosphate Coated	Phosphate Coated	Phosphate Coated
		Material	-	-	-	-	Steel	-
	QR lever	Finish	-	-	-	-	Nickel plated	-
QR		Color	-	-	-	-	-	-
	QR	Material	-	-	-	-	Steel	-
	housing	Finish	-	-	-	-	Nickel plated	-
	QR nut	Material	-	-	-	-	Resin & Steel	-
ļ		Finish	-	-	-	-	-	-
	QR Skewer	129	-	-	-	-	Х	-
	Length (mm)	133	-	-	-	-	Х	-
Average	weight		712 g	960 g	960 g	630 g	700 g	712 g
Average weight Note				* For LED light use	* For LED light use			



Ser	inc		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
			-			-		
Mode			DH-C3000-2N-QR	DH-C3000-2N-NT	DH-C3000-1N	DH-C2100-N	DH-C2100-NC	DH-C2100-N-QR
		/ZO	-	-	Х	-	-	-
Regulation		GBi	-	-	-	-	-	-
		IS					-	
	Oth		-	-	-	VIA	VIA	VIA
		1	Silver	Silver	Silver	Silver	Silver	Silver
Color		2	Black	Black	Black	Black	Black	Black
		3	-	-	-	-	-	-
Ту			Regular	Regular	Regular	Regular	Regular	Regular
CENTER LOCK		e	-	-	-	-	-	-
Voltag			6	6	6	6	6	6
Outpu) in als	2.4	2.4	1.5	0.9	0.9	0.9
	26-28		-	-	-	-	-	-
		3 inch	-	-	X	-		-
		3 inch	-	-	-	-	-	-
Wheel size		3 inch	X	X	-	- V		- V
1111001 5120		3 inch	-	-	-	X	V	Х
		linch	-	-	-		X	-
) inch	-	-	-	.		-
	Compatib size	ole wheel (mm)	(400-716)	(400-716)	(448-716)		-	-
QR1	ype		Х	-	, ,		-	Х
Nut			-	Х	х	Х	Х	-
O.L.D.			100	100	100	93	93	100
Flange Dist			60.0	60.0	56.0	58	58	58
Offset			0.6	1.0	0	0.5	0.5	0.5
Hole P.C.			74	74	67	60	60	60
	Axle length (mm)		108	140	140	155 /150	155 / 150	108
Spok			#14	#14	#14	#13/#14	#13/#14	#13 / #14
·	24	1H	-	-	-	-	-	-
	28H		-	-		-	Х	-
Spoke hole	Finish		х	Х	Х	-	-	Х
	36H		Х	Х	Х	Х	-	Х
Se	al		Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact
	More	High		-	-	-	-	-
Roller brake	than 26	Standard			-	_	_	-
modulator grade	inch			_				
		l inch			-	-	-	=
<u> </u>		ype	•	-	-	-	-	-
Electric power output connector		ype	- V	- X	- X	-	-	-
		type ners	X	X -	- X	- X (J2-A)	X (J2-A)	- X (J2-A)
	_	erial	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell						Painted (Black) /	Painted (Black) /	Painted (Black) /
	Fin	ish	Painted	Painted	Painted	Passivation (Silver)	Passivation (Silver)	Passivation (Silver)
		Material	Steel	Steel	Steel	Steel	Steel	Steel
	Axle	Finish	Manganese	Manganese	Manganese	Plating	Plating	Manganese
			Phosphate Coated	Phosphate Coated	Phosphate Coated	-	-	Phosphate Coated
		Material	Steel	-	-	-	-	Steel
	QR lever	Finish	Nickel plated	-	-	-	-	Plated
		Color	-	-	-	-	-	Silver
QR	QR housing	Material	Steel	-	-	-	-	Steel
	housing	Finish	Nickel plated	-	-	-	-	Plated
	QR nut	Material	Resin & Steel	-	-	-	-	Resin & Steel
	_	Finish	-	-	-	-	-	-
	QR Skewer	129	Х	-	-	-	-	х
	Length	133	х	-	-	_	-	х
	(mm)		700	707				
Average	weight		700 g	705 g	600 g	491 g	491 g	474 g
No	te				* For LED light use only	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market
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SMCN

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DH

LP

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DD

PD

Ser	ries		NEXUS	SHIMANO	NEXUS	NEXUS	SHIMANO	SHIMANO
Mode	el no.		DH-C2100-N-QRC	DH-C2100-D-NT	DH-2N40-J	DH-2N40-JC	DH-2N40-JW	DH-2N40-JWC
	StV	/ZO	-	-	-	-	-	-
	TP	GBi	-	-	-	-	-	-
Regulation	JI	IS	-	-	Х	Х	Х	Х
	Oth	ners	VIA	VIA	-	-	-	-
		1	Silver	Silver	Silver	Silver	Silver	Silver
Color	2	2	Black	Black	Black	Black	Black	Black
		3	-	-	-	-	-	-
Ту	pe		Regular	Disc brake	Regular	Regular	Regular	Regular
CENTER LOCK	C mount typ	e	-	Х	-	-	-	-
Volta	ge (V)		6	6V	6	6	6	6
Outpu	ut (W)		0.9	0.9W	2.4	2.4	2.4	2.4
	26-28	3 inch	-	-	-	-	-	-
	20-28	3 inch	-		-	-	<u> </u>	-
	18-28	3 inch	-	-	-	<u></u>	-	-
	16-28	3 inch	-	-	-			-
Wheel size		3 inch	-	Х	Х	-	х	-
		l inch	Х	-	-	X		Х
) inch	-	-	-	-		-
	Compatil							
	size		-	-			-	-
QR 1	type		Х	-		-	-	-
Nut	type		-	-	Х	Х	Х	Х
O.L.D.	(mm)		100	100	93	93	100	100
Flange Dist	tance (mm)		58	52.5	60.0	60.0	60.0	60.0
Offset	(mm)		0.5	4.8	0	0	3	3
Hole P.C.	.D. (mm)		60	60	69	69	69	69
Axle lenç	gth (mm)		108	140	155 / 150	150	140	140
Spok	e size		#13 / #14	#13 / #14	#13 / #14	#14	#14	#14
	24	1H	-	-	-	-	-	-
Carlo bala	28H		-	-	-	Х	-	-
Spoke hole	Finish		Х	Х	-	-	-	-
	36	5H	Х	Х	Х	-	Х	Х
Se	al		Single Contact					
	More	High	-	-	-	-	-	-
Roller brake	than 26 inch	Standard			-	-	-	-
modulator grade		l I inch		_	-	-	-	-
		уре	-	-	-	-	-	-
Electric power autout		уре		-	X	X	Х	Х
Electric power output connector		уре		-	-	-	-	-
		ners	X (J2-A)	X (J2-A)	-	-	-	-
		erial	Aluminum	Aluminum	Aluminum & Steel	Aluminum & Steel	Aluminum & Steel	Aluminum & Steel
Hub shell			Painted (Black) /	Painted (Black) /				
	Fin	ish	Passivation (Silver)	Passivation (Silver)	Painted / Passivation	Painted / Passivation	Painted / Passivation	Painted / Passivation
		Material	Steel	Steel	Steel	Steel	Steel	Steel
	Axle	Finish	Manganese	Plating	Zinc plated	Zinc plated	Zinc plated	Zinc plated
			Phosphate Coated		·		•	·
		Material	Steel	-	-	-	-	-
	QR lever	Finish	Plated	-	-	-	-	-
		Color	Silver	-	-	-	-	-
QR	QR housing	Material	Steel	-	-	-	-	-
	nousing	Finish	Plated	-	-	-	-	-
	QR nut	Material	Resin & Steel	-	-	-	-	-
		Finish	-	-	-	-	-	-
	QR Skewer	129	Х	-	-	-	-	-
	Length	133	x	-	-	-	-	-
_	(mm)							
Average	weight		474 g	500 g	630 g	630 g	630 g	630 g
No	te		* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market
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Light

Ser	ies	NEXUS	SHIMANO	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		LP-C2207-B	LP-C2207-C	LP-C2200-S	LP-C2200-B	LP-C2201-S	LP-C2201-B
Function name		HILMO	HILMO	HILMO	HILMO	HILMO	HILMO
Auto	light	-	-	_	-	-	-
	Front	Х	Х	X	X	Х	X
Type of light	Tail(Rear)	-	-	-	-	-	-
Hub dynar	no output	0.9 W					
Main	light	High Power LED					
Brightness (At 5 m dis		40 lx					
Lighting	pattern	WIDE	WIDE	WIDE	WIDE	WIDE	WIDE
Sub I	light	-	-	-	-	-	-
Stand light (LED f	lashing) function	-	-	-	-	-	-
Reflector in	ntegration	-	-	х	х	Х	Х
Florado	Tab-on type	-	-	-	4	-	-
Electric power input	Connector type	J2-A	J2-A	J2-A	J2-A	J2-A	J2-A
Light body	y material	Resin	Resin	Resin	Resin	Resin	Resin
	1	Silver/Black/Black	CP/Silver/Black	СР	СР	СР	CP/Black
ļ	2	Black/Gray/Black	CP/Silver/White	Silver(Painted)	Silver(Painted)	Silver(Painted)	Silver(Painted)
.	3	-	-	White	White	White	White
Color	4	-	-	Black	Black	Black	Black
Ī	5	-	-	Gray	Gray	Gray	Gray
	6	-	-		-	-	-
	Light stay	-	_	X		х	-
İ	Below basket	Х	-	-	х	-	х
İ	Fork center	-	X	-	-	-	-
Attachment position	Handle bar	-	-	-	-	-	-
İ	on mud guard	-	-	-	-	-	-
	mud guard style stay	-	-	-	-	-	-
İ	seat stay	-	-	-	-	-	-
	13			-	-	-	-
Compatible seat stay diameter (mm)	16	-		-	-	-	-
diameter (mm)	19	-	-	-	-	-	-
	22.2		-	-	-	-	-
Compatible handle bar diameter (mm)	25.4		-	-	-	-	-
par urameter (mm)	31.8	-	-	-	-	-	-
	Auto	-	-	-	-	-	-
	Manual (on)	-	-	-	-	-	-
Switch	Manual (off)	-	-	-	-	-	-
Ì	Permanent	Х	Х	X	X	Х	х
	Black	-	Х	-	-	-	-
Electric wire color	grey	Х	-	Х	Х	Х	х
Electric wire	Tab-on type	-	-	-	-	-	-
length(mm)	Connector type	710	500	405	715	405	715
EZ cable		-	-	-	-	-	-
Cord lengt	· · · · · · · · · · · · · · · · · · ·	-	-	-	-	-	-
Compatible		-	-	-	-	-	-
No		* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market

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SMCB SMCA

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Light

Ser	ies	SHIMANO	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Mode		LP-C2250-H	LP-C2111-S	LP-C2111-B	LP-X101-H	LP-X101	LP-X100
Function name		HILMO	HILMO FLASH	HILMO FLASH	-	-	-
Auto		-	-	-	X	X	Х
	Front	Х	Х	X	X	X	X
Type of light	Tail(Rear)	-	-	-	-	-	-
Hub dynar	no output	0.9 W	6 V-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					
Brightness (At 5 m di		40 lx	40 lx	40 lx	80 lx	80 lx	80 lx
Lighting	pattern	WIDE	Normal	Normal	Normal	Normal	Normal
Sub	light	-	-	-	-	-	-
Stand light (LED f	lashing) function	-	Х	x	-	-	-
Reflector i	ntegration	-	Х	x	x		-
Electric name: !	Tab-on type	-	-	-	Х	X	Х
Electric power input	Connector type	J2-A	J2A	J2A	X	X	Х
Light bod	y material	Resin	Resin	Resin	Resin	Resin	Resin
	1	CP/Black	СР	СР	Silver(Painted)	Silver(Painted)	Silver(Painted)
	2	-	Silver(Painted)	Silver(Painted)	White(Painted)	White(Painted)	White(Painted)
6.1	3	-	White	White	Black	Black	Black
Color	4	-	Black	Black	Gray	Gray	Gray
	5	-	Gray	Gray	-	-	-
	6	-	-		-	-	-
	Light stay		X	-	х	Х	х
	Below basket	-		Х	-	-	-
	Fork center	-	-	-	-	-	-
Attachment position	Handle bar	Х	-	-	-	-	-
	on mud guard	-	-	-	-	-	-
	mud guard style stay	-	-	-	-	-	-
	seat stay	·	-	-	-	-	-
	13			-	-	-	-
Compatible seat stay diameter (mm)	16	-		-	-	-	-
,	19	- 4	-	-	-	-	-
	22.2	х	-	-	-	-	-
Compatible handle bar diameter (mm)	25.4	X	-	-	-	-	-
	31.8	Х	-	-	-	-	-
	Auto	-	-	-	Х	Х	Х
Switch	Manual (on)		-	-	Х	Х	Х
Switch	Manual (off)	-	-	-	-	-	-
	Permanent	Х	Х	Х	-	-	-
Electric wire color	Black	Х	-	-	Х	х	х
Liceane Wife Color	grey	-	Х	Х	-	-	-
Electric wire	Tab-on type	-	-	-	410	400	675
length(mm)	Connector type	783	405	715	160	120	125
EZ cable	e clamp	Х	-	-	-	-	-
Cord lengt	h adjuster	-	-	-	-	-	-
Compatible	wheel size	-	-	-	-	-	-
No	ote	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market

GENERAL

Light

Sei	ries	NEXUS	TOURNEY	
Mode	el no.	LP-NX60-R	LP-RTX2	
Functio	n name	-	-	
Auto	light	-	-	
Type of light	Front	Х	-	
	Tail(Rear)	-	Х	
	mo output	6 V-2.4 W	6 V-2.4 W	
	light	Super Bright Red LED	Super Bright Red LED	
	stance, JIS standard = lx)	-	-	
Lighting	pattern	-	-	
Sub	light	-	-	
Stand light (LED i	flashing) function	X (if used with LP-X103)	X (if used with LP-X103)	
Reflector i	ntegration	-	-	
Electric power input	Tab-on type	-	-	
	Connector type	х	Х	
Light bod	y material	Resin	Resin	
	1	Silver(Painted)	Black	
	2	White(Painted)	-	
Color	3	Black(Painted)	-	
	4	-	-	
	5	-	-	
	6	-	-	
	Light stay Below basket	-	-	
	Fork center	-		
Attachment position	Handle bar	-		
Actuelinent position	on mud guard	X *	_	
	mud guard style stay		X	
	seat stay		X (seat stay type)	
	13		X (seat stay type)	
Compatible seat stay diameter (mm)	16	-	X (seat stay type)	
diameter (iiii)	19	-	X (seat stay type)	
	22.2		-	
Compatible handle bar diameter (mm)	25.4	-	-	
	31.8	-	-	
	Auto	•	-	
Switch	Manual (on)	-	-	
	Manual (off)	-	-	
	Permanent	X	X	
Electric wire color	Black	X	X (see to store to see)	
	grey	Х	X (seat stay type)	
Electric wire length(mm)	Tab-on type	- Available	910	
J,	Connector type	Available	1140 / 1240 (seat stay type)	
EZ cabl	e clamp	-	3 5 (seat stay type)	
Cord lengt	th adjuster	-	х	
Compatible	wheel size	22/24/26/27 inch	20/22/24 inch CTB - (seat stay type)	
No	ote	* Specification for Japan market (attached with special stay. 2 kinds of stays are available. One for IHG, another for RH/FH)	* Specification for Japan market	

CN

RT

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RTAD

SMCB SMCA

PM

LP

Light (SMRTX2)

Sei	TOURNEY		
Mode	Model no.		
Color	1	Black	
Color	2	Gray	
	13	Х	
Size (mm)	16	х	
	19	Х	
No	Frame clip		



GENERAL

E-THRU axle (AX)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	SM-AX720-100x12	SM-AX720-142x12	AX-MT700-142x12	AX-MT700-148x12	SM-AX78	SM-AX78-B
	135 x 10 mm	-	-	-	-	-	-
	100 x 12 mm	Х	-	-	-	-	-
Axle type	135 x 12 mm	-	-	-	-	-	-
	142 x 12 mm	-	Х	Х	-	Х	-
	148 x 12 mm	-	-	-	X	-	Χ
Lever positio	Lever position adjust type		Х	I-type (left housing)	I-type (left housing)	I-type (left housing)	l-type (left housing)
	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	166	172
Axle	Hollow axle	Х	Х	Х	X	Х	X
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Level	Finish	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)
Housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Housing	Finish	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)
Fining and	Material	-	-	-	1	-	-
Fixing nut	Finish		-	-	-	-	-
Average	weight	65 g	74 g	75 g	76 g	77 g	78 g
No	ote						

Se	ries	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mod	lel no.	AX-MT500-142x12	AX-MT500-148x12	SM-AX58	SM-AX58-B	SM-AX76	SM-AX76-B
	135 x 10 mm	-	-	-	-	-	-
	100 x 12 mm	-	-	-	-	-	-
Axle type	135 x 12 mm	-	-	-	-	-	-
	142 x 12 mm	Х		Х	-	Х	-
	148 x 12 mm	-	Х	-	Х	-	Х
Lever position	on adjust type	l-type (left housing)	I-type (left housing)	I-type (left housing)	I-type (left housing)	Right fixing nut	Right fixing nut
	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)	166	172	166	172	171	177
Axle	Hollow axle	X	Х	Х	Х	Х	Х
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized (Silver)	Anodized (Silver)	Anodized (Silver)	Anodized (Silver)	Anodized (Black)	Anodized (Black)
1	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Lever	Finish	Painted (Black)	Painted (Black)	Painted (Black)	Painted (Black)	Anodized (Black)	Anodized (Black)
Harrahan	Material	Alumin <mark>um</mark>	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Housing	Finish	Painted (Black)	Painted (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)
Fining and	Material		-	-	-	Aluminum	Aluminum
Fixing nut	Finish		-	-	-	Anodized (Black)	Anodized (Black)
Averag	Average weight		80 g	81 g	82 g	69 g	71 g
N	ote						

	1	
ries	SHIMANO	SHIMANO
el no.	SM-AX56	SM-AX56-B
135 x 10 mm	-	-
100 x 12 mm	-	-
135 x 12 mm	-	-
142 x 12 mm	Х	-
148 x 12 mm	-	Х
on adjust type	Right fixing nut	Right fixing nut
Thread pitch	M12 x 1.5	M12 x 1.5
Length (mm)	171	177
Hollow axle	Х	Х
Material	Aluminum	Aluminum
Finish	Anodized (Silver)	Anodized (Silver)
Material	Aluminum	Aluminum
Finish	Painted (Black)	Painted (Black)
Material	Aluminum	Aluminum
Finish	Painted (Black)	Painted (Black)
Material	Aluminum	Aluminum
Finish	Anodized (Black)	Anodized (Black)
e weight	75 g	77 g
ote		
	100 x 12 mm 135 x 12 mm 142 x 12 mm 148 x 12 mm on adjust type Thread pitch Length (mm) Hollow axle Material Finish Material Finish Material Finish Material Finish Material	el no. SM-AX56 135 x 10 mm

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SMCB SMCA

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LP

SMRTX2

SMAX

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PD

Cycle Computer

Model no. Compatible system Mechanical Attachement position Battery type CR2032 Charging for cycle computer Rear speeds Front speeds Number of programable wheel size Wheel size range Remote switch Communications Mired Memory capacity PC software available Detachable X Size (Active Area) Font type Back light Touch panel Font type Cadence Trip distance Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start Canguage choice Beep on/off Changing data sampling rate CR2032 Mechanical Handle Bar Mechanical Handle Bar Mechanical Handle Bar Mechanical Handle Bar Mechanical Handle Bar Mechanical Handle Bar Rezo32 COUS COUS High Park Park Park Park Park Park Park Park	500	CLDECK		
Compatible system Attachement position Battery type CR2032 Charging for cycle computer Rear speeds Front speeds Front speeds Number of programable wheel size Wheel size range Remote switch Communications Wired Memory capacity PC software available Detachable Size (Active Area) Posephent Posephent Display spec Panel type Panel type Cadence Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start Setting function Peep on/off Changing data sampling rate Remote switch CR2032 CR2032 Re2032 CAU CACO CACO CACO CR2032 CR2032 CACO CACO CACO CACO CACO CACO CACO CAC		CI-DECK		
Attachement position Battery type CR2032 Charging for cycle computer Rear speeds Front speeds Front speeds - Number of programable wheel size Wheel size range Remote switch Communications Wired Memory capacity PC software available Detachable X Size (Active Area) Font type Segment Display spec Panel type LCD Back light Touch panel Gear indicator Speed X Cadence Trip distance Odometer X Heart rate Power Time/Clock X Altitude/Slope Temperature Lap time Auto display start Unit setting Language choice Beep on/off Changing data sampling rate Rear Speeds Cadence Changing data sampling rate Power Changing data sampling rate				
Charging for cycle computer Rear speeds Front speeds Number of programable wheel size Wheel size range Remote switch Communications Memory capacity PC software available Detachable X Size (Active Area) Font type Back light Touch panel Cadence Trip distance Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start Changing data sampling rate Rear speeds - Cadence Changing data sampling rate - Changing data sampling rate - Communication - Cadence - Changing data sampling rate - Communication - Cadence - Changing data sampling rate - Communication - Communication Wired 20"-22"-24"-26" 1 Communication Wired Auto display start Communication Auto display start Communication Auto display data sampling rate - Changing data sampling rate		-		
Charging for cycle computer Rear speeds Front speeds Number of programable wheel size Wheel size range Remote switch Communications Wired Memory capacity PC software available Detachable Size (Active Area) Font type Segment Font type Panel type LCD Back light Touch panel Gear indicator Speed X Cadence Trip distance Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start Vanta display start Changing data sampling rate Power Changing data sampling rate I mere and survey		•		
Rear speeds Front speeds Front speeds Number of programable wheel size Wheel size range 20"-22"-24"-26" Remote switch Communications Wired Memory capacity PC software available Detachable X Size (Active Area) Font type Segment Panel type LCD Back light Touch panel Gear indicator Speed X Cadence Trip distance - Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start Display customizing Unit setting Language choice Beep on/off Changing data sampling rate 1			CR2032	
Front speeds Number of programable wheel size Wheel size range Remote switch Communications Wired Memory capacity PC software available Detachable X Size (Active Area) Font type Segment Panel type LCD Back light Touch panel - Gear indicator Speed X Cadence Trip distance Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start V Language choice Beep on/off Changing data sampling rate - 20 "2"-24"-26" 1 1 1 1 1 1 1 1 1 1 1 1 1	Charging for o	ycle computer	-	
Number of programable wheel size Wheel size range 20"-22"-24"-26" Remote switch Communications Wired Memory capacity PC software available Detachable X Size (Active Area) Font type Segment Panel type LCD Back light Touch panel Gear indicator Speed X Cadence Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start Changing data sampling rate Pired 20 x 20 mm Font type Segment CD Auro display start X Display customizing Language choice Beep on/off Changing data sampling rate	Rear s	peeds	-	
Wheel size range Remote switch Communications Wired Memory capacity PC software available Detachable Size (Active Area) Font type Panel type Panel type Back light Touch panel Gear indicator Speed X Cadence Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start Language choice Beep on/off Changing data sampling rate Vired	Front	speeds	-	
Remote switch Communications Memory capacity PC software available Detachable X Size (Active Area) Font type Segment Panel type LCD Back light Touch panel Gear indicator Speed X Cadence Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lup time Auto display start V Language choice Beep on/off Changing data sampling rate V V V V V V Vired A Wired Wired Vired A Wired A Wired A Wired A Wired A Wired A Wired A Vired A V A Altived Auto A Altive Auto display start Auto display start Auto display customizing Changing data sampling rate	Number of progra	mable wheel size	1	
Communications Memory capacity PC software available Detachable X Size (Active Area) Font type Segment Panel type LCD Back light Touch panel Gear indicator Speed X Cadence Trip distance Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start X Language choice Beep on/off Changing data sampling rate V X Cadence - Changing data sampling rate - Consumer of the consumer of t	Wheel si	ze range	20"-22"-24"-26"	
Memory capacity PC software available Detachable X Size (Active Area) Font type Segment Panel type LCD Back light Touch panel Gear indicator Speed X Cadence Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start Changing data sampling rate Poux 20 x 20 mm Font type Segment Available CD Regement Auto display start Auto display start Changing data sampling rate	Remote	switch	-	
PC software available Detachable X Size (Active Area) Font type Segment Font type Panel type LCD Back light Touch panel Gear indicator Speed X Cadence Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start Display customizing Unit setting Language choice Beep on/off Changing data sampling rate Segment X Alto 20 x 20 mm Font type Segment ACD ACD ACD ACD Segment ACD ACD ACD ACD ACD ACD ACD AC	Commu	nications	Wired	
Detachable Size (Active Area) Font type Segment Font type Panel type LCD Back light Touch panel Gear indicator Speed X Cadence Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start Display customizing Unit setting Language choice Beep on/off Changing data sampling rate VCD Segment ACD ACD ACD ACD ACD ACD ACD AC	Memory	capacity	-	
Size (Active Area) Font type Segment Panel type LCD Back light Touch panel Gear indicator Speed X Cadence Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start Display customizing Unit setting Language choice Beep on/off Changing data sampling rate Found Segment 20 x 20 mm 20 x 20 mm 20 x 20 mm 20 x 20 mm 20 x 20 mm 20 x 20 mm 20 x 20 mm 20 x 20 mm 20 x 20 mm 20 x 20 mm 20 x 20 mm 20 x 20 mm Auco Segment A LAC LAC LAC LAC LAC LAC LAC	PC softwar	e available	-	
Display spec Panel type Back light Touch panel Gear indicator Speed X Cadence Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start Display customizing Unit setting Language choice Beep on/off Changing data sampling rate Pout CD Segment Segment Segment Segment Auto Segment Auto Segment Auto Segment Auto Segment Auto Segment Auto Segment Auto Segment Auto Changing data sampling rate	Detac	Detachable		
Display spec Panel type Back light Touch panel Gear indicator Speed X Cadence Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start X Display customizing Unit setting Language choice Beep on/off Changing data sampling rate LOD LOD LOD LOD LOD LOD LOD LO		Size (Active Area)	20 x 20 mm	
Back light Touch panel Gear indicator Speed X Cadence Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start Display customizing Unit setting Language choice Beep on/off Changing data sampling rate		Font type	Segment	
Touch panel - Gear indicator - Speed X Cadence - Trip distance - Odometer X Heart rate - Power - Time/Clock X Altitude/Slope - Temperature - Lap time - Auto display start X Display customizing - Unit setting - Language choice Beep on/off - Changing data sampling rate	Display spec	Panel type	LCD	
Gear indicator Speed X Cadence - Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start X Display customizing Unit setting Language choice Beep on/off Changing data sampling rate - Speed X X Altitude/Slope - Changing data sampling rate Auto display start Changing data sampling rate		Back light	-	
Speed X Cadence - Trip distance - Odometer X Heart rate - Power - Time/Clock X Altitude/Slope - Temperature - Lap time - Auto display start X Display customizing - Unit setting - Language choice - Beep on/off - Changing data sampling rate		Touch panel	-	
Cadence Trip distance Odometer X Heart rate Power Time/Clock Altitude/Slope Temperature Lap time Auto display start Display customizing Unit setting Language choice Beep on/off Changing data sampling rate Trip distance - Cadence - Trip distance - Auto distance - Lap time - Lap time - Changing data sampling rate		Gear indicator	-	
Trip distance Odometer X Heart rate - Power - Time/Clock X Altitude/Slope - Temperature - Lap time - Auto display start X Display customizing - Unit setting - Language choice - Beep on/off - Changing data sampling rate -		Speed	Х	
Odometer X Heart rate - Power - Time/Clock X Altitude/Slope - Temperature - Lap time - Auto display start X Display customizing - Unit setting - Language choice - Beep on/off - Changing data sampling rate		Cadence	-	
Display function Power Time/Clock Altitude/Slope Temperature Lap time Auto display start Display customizing Unit setting Language choice Beep on/off Changing data sampling rate		Trip distance	-	
Power Time/Clock X Altitude/Slope - Temperature - Lap time - Auto display start X Display customizing - Unit setting - Language choice - Beep on/off - Changing data sampling rate		Odometer	Х	
Power Time/Clock X Altitude/Slope - Temperature - Lap time - Auto display start X Display customizing - Unit setting - Language choice - Beep on/off - Changing data sampling rate		Heart rate	-	
Altitude/Slope Temperature Lap time Auto display start Display customizing Unit setting Language choice Beep on/off Changing data sampling rate	Display function	Power	-	
Temperature Lap time Auto display start X Display customizing Unit setting Language choice Beep on/off Changing data sampling rate		Time/Clock	Х	
Lap time Auto display start Display customizing Unit setting Language choice Beep on/off Changing data sampling rate		Altitude/Slope	-	
Auto display start X Display customizing - Unit setting - Language choice - Beep on/off - Changing data sampling rate		Temperature	-	
Display customizing Unit setting Language choice Beep on/off Changing data sampling rate		Lap time	-	
Display customizing Unit setting Language choice Beep on/off Changing data sampling rate		Auto display start	Х	
Setting function Language choice Beep on/off Changing data sampling rate		Display customizing	-	
Beep on/off - Changing data sampling rate		Unit setting	V.,	
Beep on/off - Changing data sampling rate	Cotting function	Language choice		
sampling rate	Setting function		-	
Note Use with SM CI200				
OSE WILLI SIVI-CISOU	No	ote	Use with SM-CI300	



GENERAL

Pedal (SPD)

Sei	ries	XTR	XTR	хт	хт	SHIMANO	SHIMANO
Mode	el no.	PD-M9000	PD-M9020	PD-M8000	PD-M8020	PD-M540	PD-M530
Col	or 1	Black	Black	Black	Black	Silver	Black
Col	or 2	-	-	-	-	Black	White
Col	or 3	-	-	-	-	-	-
Ту	pe	Off-Road (SPD)	Off-Road (SPD)	Trekking (SPD/Flat)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)
Bino	ding	Dual Sided	Dual Sided	Single Sided	Dual sided	Dual Sided	Dual Sided
Pedal axlo	e material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartrid	ge axle	х	Х	Х	Х	X	Х
Sealed m	Sealed mechanism		Х	Х	Х	X	Х
Cleat retent	Cleat retention adjuster		х	X	х	X	X
Pop-u	Pop-up cage		-	-	-	-	-
Integrat	Integrated cage		Х	-	X	-	Х
Offset	binding	Х	-	-	-	-	-
Oval shape axl	e body housing	Х	х	-		-	-
Cleat in	ncluded	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51
Option	al cleat	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56
Refle	ector	SM-PD60	SM-PD60	Integrated	SM-PD60	SM-PD22	SM-PD60
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Pedal body	Finish	Anodized	Anodized	Anodized	Anodized	Anodized (Silver) / Painted (Bronze)	Anodized (Black) / Painted (White)
Cage	Material	-	-	-	-	-	-
Average w	Average weight (pair)		379 g	343 g	408 g	352 g	455 g
No	Note			1.0mm cleat spacer included	1.0mm cleat spacer included		

						•	1
Ser	ries	SHIMANO	SHIMANO	SAINT	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	PD-M520	PD-M505	PD-M820	PD-M647	PD-M545	PD-M424
Cole	or 1	Silver	Silver	Black	Black	Silver	Black
Cole	or 2	Black	Black	-	-	-	-
Cole	or 3	White		-	-	-	-
Ту	pe	Off-Road (SPD)	Off-Road (SPD)	Off-Road/DH (SPD)	Off-Road/BMX (SPD)	Off-Road/BMX (SPD)	Off-Road/BMX (SPD)
Bino	ding	Dual Sided	Dual Sided	Dual sided	Dual Sided	Dual Sided	Dual Sided
Pedal axle	e material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartrid	ge axle	X	-	Х	Х	Х	Х
Sealed m	echanism	Х	X	Х	Х	Х	Х
Cleat retent	ion adjuster	X	X	X	x	X	X
Pop-uj	p cage	-	-	-	Х	Х	Х
Integrat	ed cage	-	-	Х	-	-	-
Offset I	binding	-	-	-	-	-	-
Oval shape axle	e body housing	-	-	-	-	-	-
Cleat in	ncluded	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51
Option	al cleat	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56
Refle	ector	SM-PD22	SM-PD22	SM-PD60	SM-PD60	SM-PD40	SM-PD40
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Pedal body	Finish	Polished (Silver) / Painted (Black) / Painted (White)	Polished (Silver) / Painted (Black)	Painted	Painted	Painted	Polished
Cage	Material	-	-	-	Resin	Aluminum	Resin
Average w	Average weight (pair)		443 g	568 g	568 g	567 g	472 g
No	ote			1.0mm cleat spacer included			

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Pedal (SPD)

Ser	ries	SHIMANO	DEORE XT	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	PD-M324	PD-T8000	PD-A600	PD-A530	PD-A520	PD-ED500
Cole	or 1	Silver	Black	Gray	Silver	Silver	Dark Grey
Col	or 2	-	-	-	Black	-	-
Cole	or 3	-	-	-	-	-	-
Ту	pe	Multi-purpose (SPD/ Flat)	Trekking (SPD/Flat)	Road (SPD)	Multi-purpose (SPD/ Flat)	Road (SPD)	Road (SPD)
Bino	ding	Single Sided	Single Sided	Single Sided	Single Sided	Single Sided	Dual Sided
Pedal axle	e material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartrid	ge axle	-	Х	Х	X	Х	Х
Sealed m	echanism	Х	X	Х	X	X	X
Cleat retent	Cleat retention adjuster		X	X	X	X	X
Pop-u	p cage	-	-	-	-	-	-
Integrat	ted cage	-	-	-	-	-	Х
Offset l	binding	-	-	-	-	-	-
Oval shape axl	e body housing	-	-	-	-	-	-
Cleat in	ncluded	SM-SH56	SM-SH56	SM-SH51	SM-SH51	SM-SH51	SM-SH56
Option	al cleat	SM-SH51	SM-SH51	SM-SH56	SM-SH56	SM-SH56	SM-SH51
Refle	ector	Y41B98010	Integrated	SM-PD62	SM-PD61	SM-PD59	SM-PD60
Dodal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Pedal body	Finish	Painted	Anodized	Polished/Painted	Painted	Polished	Painted (Dark Grey)
Cage	Material	Steel	-	-	-	-	-
Average w	eight (pair)	533 g	392 g	286 g	383 g	315 g	442 g
No	ote						Light action

Pedal (CLICK'R)

Ser	Series		SHIMANO	SHIMANO
Mode	el no.	PD-MT50	PD-T421	PD-T400
Cole	or 1	Black	Black	Black
Cole	or 2	-	-	White
Cole	or 3	-	-	-
Ту	ре	Recreational use (Click'R)	Trekking (CLICK'R)	Trekking (CLICK'R)
Bino	ding	Dual Sided	Single Sided	Dual Sided
Pedal axle	e ma <mark>terial</mark>	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartrid	ge axle	х	х	Х
Sealed m	echanism	Х	х	Х
Cleat retent	Cleat retention adjuster		Х	Х
Pop-u	p cage	Х	Х	Х
Integrat	ed cage	-	-	-
Offset I	binding	-	-	-
Oval shape axl	e body housing	-	-	-
Cleat ir	ncluded	SM-SH56	SM-SH56	SM-SH56
Option	al cleat	SM-SH51	SM-SH51	SM-SH51
Refle	Reflector		Integrated	Integrated
De del bede	Material	Aluminum	Aluminum	Aluminum
Pedal body	Finish	Painted	Painted	Painted
Cage	Material	Resin	Resin	Resin
Average w	Average weight (pair)		418 g	507 g
No	ote			

GENERAL

Pedal (Flat Pedal)

Ser	ries	SAINT	DEORE XT	SHIMANO
Mode	el no.	PD-M828	PD-M8040	PD-GR500
Cole	or 1	Black	Black	Black
Cole	or 2	-	-	Silver
Cole	or 3	-	-	-
Ту	pe	Off-Road (Flat Pedal)	Off-Road (Flat Pedal)	Off-Road (Flat Pedal)
Bino	ling	-	-	-
Pedal axle	e material	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartrid	ge axle	Х	Х	Х
Sealed m	Sealed mechanism		Х	Х
Cleat retent	Cleat retention adjuster		-	-
Pop-u	Pop-up cage		-	-
Integrat	ed cage	-	-	-
Offset l	binding	-	-	-
Oval shape axl	e body housing	-	-	-
Cleat in	ncluded	-	-	-
Option	al cleat	-	-	-
Refle	ector	SM-PD67	SM-PD67	SM-PD64
Pedal body	Material	Aluminum	Aluminum	Aluminum
redai body	Finish	Anodized	Painted	Painted
Cage	Material	-	-	-
Average w	eight (pair)	477 g	SM: 469 g/ML: 514 g	535 g
Note		12 pins per platform	10 pins per platform 2 platform size available (SM/ML)	9 pins per platform



Ser	ries	DURA-ACE	ULTEGRA	105	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	PD-R9100	PD-R8000	PD-5800	PD-R550	PD-R540-LA	PD-R540
Col	or 1	CFRP	CFRP	CFRP	Black	Black	Silver
Col	or 2	-	-	-	Gray	White	Black
Col	or 3	-	-	-	-	-	White
Ту	pe	Road	Road	Road	Road	Road	Road
Bino	di <mark>ng</mark>	Single Sided	Single Sided	Single Sided	Single Sided	Single Sided	Single Sided
Pedal axle	e material	Nickel Chromoly Steel	Nickel Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartrid	ge axle		Х	Х	X	х	Х
Sealed mechanism		х	Х	Х	Х	Х	Х
Cleat retention adjuster		х	Х	Х	Х	Х	Х
Cleat ir	ncluded	SM-SH12	SM-SH11	SM-SH11	SM-SH11	SM-SH11	SM-SH11
Option	al cleat	SM-SH10 / SM-SH11	SM-SH10 / SM-SH12	SM-SH10 / SM-SH12	SM-SH10 / SM-SH12	SM-SH10 / SM-SH12	SM-SH10 / SM-SH12
Refle	ector	SM-PD63	SM-PD63	SM-PD65	SM-PD65	SM-PD58	SM-PD58
Pedal body	Material	Carbon	Carbon	Carbon	Resin	Aluminum	Aluminum
redai body	Finish	-	-	Painted	Painted	Painted	Painted
Body cove	er material	Polished Special Stainless	Stainless	Stainless	Stainless	Resin	Resin
Wide platform		х	Х	X	Х	-	-
Road clearance		35 °	33 °	32 °	32 °	34 °	34 °
Average weight (pair)		228 g	248 g	285 g	310 g	330 g	330 g
No	ote	4 mm longer axle available Hollow Cleat bolts	4 mm longer axle available		Wider spring tension range	Lighter spring tension	

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DI2 Spec

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	Front Derailleur	224	FD
	Mount Adapter for Front Derailleur	225	SMAD
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	Motor Unit	228	MU
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<road:< td=""><td>Shifting/Brake Lever</td><th>229</th><td>ST</td></road:<>	Shifting/Brake Lever	229	ST
	Shifting/Brake Lever (Hydraulic disc brake)	230	ST
	Shifting Switch	232	SW
	Rear Derailleur	233	RD
	Front Derailleur	234	FD
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< GENE RAL:	>Electric Wire	235	EW
	Cord Cover	235	EWC
	Grommet	235	GM
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	Junction-A	237	JC
	Junction-B	237	JC
	Battery	238	ВТ
	Battery Mount	238	ВМ
	Battery Case	238	SMBT
	Battery Charger	239	SMBC
	Battery Cable	239	всс
	PC Linkage Device	239	SMPCE

Shifting Switch

Series		XTR	XTR	SHIMANO DEORE XT	SHIMANO DEORE XT
Model no.		SW-M9050-R	SW-M9050-L	SW-M8050-R	SW-M8050-L
Switch	ı type	FIREBOLT	FIREBOLT	FIREBOLT	FIREBOLT
Posi	tion	Clamp band, Right	Clamp band, Left	Clamp band, Right	Clamp band, Left
Compat	ible EW	EW-SD50	EW-SD50	EW-SD50	EW-SD50
Switch	h QTY	2	2	2	2
E-TUBE conn	nector (QTY)	0	0	0	0
E-TUBE po	ort (QTY)	1	1	1	1
an little to the	2 step	Х	-*(X)	-	-
Multiple input	Hold	х	-*(X)	Х	-*(X)
Suspensio	on switch	-	-**(X)	-	-**(X)
Mount Posi	tion adjust	х	х	Х	Х
Maste	r unit	-	-	-	-
Firmware update b	Firmware update by E-TUBE PROJECT		х	Х	х
Average weight		66 g/pc	66 g/pc	93 g/pc	93 g/pc
No	Note Note		*User can use it for RD multishift **User can use it for Suspension control		*User can use it for RD multishift **User can use it for Suspension control



Rear Derailleur

Series		XTR	XTR	SHIMANO DEORE XT
		RD-M9050-SGS	RD-M9050-GS	RD-M8050-GS
	el no.		GS	GS
rulley	/ cage	SGS		
Color	1	Series color	Series color	Series color
	2	-	-	-
	peeds	11	11	11
· · ·	ble chain	HG-X11	HG-X11	HG-X11
Top-Normal spring type	SHIMANO SHADOW RD+	Х	х	Х
Mount	Direct attachment (Conventional)	X	X	X
	Direct mount compatible	X*	X*	X*
Max. front	difference	18T	10T	10T
Total c	apacity	41T**	35T**	35T**
Low sprocket	Max.	40T (3x11-speed) 42T (2x11-speed) 46T (1x11-speed)	42T (2x11-speed) 46T (1x11-speed)	42T (2x11-speed) 46T (1x11-speed)
	Min.	40T	40T	40T
Top sprocket	Max.	11T	11T	11T
Top sprocket	Min.	11T	11T	11T
Fluoric coated	link bushings	4	4	4
	G pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
Pulley	Teeth	11	11	11
,	Bolts material	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	Х	Х	х
	Material	Aluminum	Aluminum	Aluminum
Bracket	Finish	Anodizing	Anodizing	Anodizing
	Hollow axle	х	X	х
B-axle	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
	Hollow axle	X	Х	Х
B-axle 2	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
	Material	Aluminum	Aluminum	Aluminum
Bracket body	Finish	Painted	Painted	Painted
	Material	Steel	Steel	Steel
P-axle	Finish	J.	-	-
	Material	CFRP	CFRP	GFRP
Plate body	Finish	Painted	Painted	-
	Material	Aluminum	Aluminum	Aluminum
Outer link	Finish	Anodized	Anodized	Painted
	Material	Aluminum	Alluminum	Steel
Inner link	Finish	Anodized	Anodized	Painted
	Material	CFRP	CFRP	Aluminum
Outer plate	Finish	Painted	Painted	Painted
Inner plate	Material Finish	Aluminum Anodized	Aluminum	Aluminum
Finish		Anodized 1		Anodized 1
E-TUBE port (QTY)			1 200 a	
-	e weight ote	*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.	*w/o bracket spec available. ** The DI2 system limits cross chain to prevent a chain from getting loose.

SW

RD

FD

SMAD

SC

SG

ST

ST

SVV

RD

EVV

EVVIC

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WU

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ВТ

BM

SIVIDO

BCC

SIMPC

Front Derailleur

Series			XTR	XTR	SHIMANO DEORE XT
Mode	el no.		FD-M9050	FD-M9070	FD-M8070
	1		Series color	Series color	Series color
Color	Color 2		-	-	-
e	Front		3	2	2
Speeds	Rear		11	11	11
Compati	ble chain		HG-X11	HG-X11	HG-X11
	TOP S	WING	-	-	-
Action	Down	Swing	Х	Х	X
	SIDE S	WING	-	-	-
		28.6mm	w/ SM-FD905-L,SM- FD905-H	w/ SM-FD905-L,SM- FD905-H	w/ SM-AD905-L,SM- AD905-H
	Clamp band	31.8mm	w/ SM-FD905-L,SM- FD905-H	w/ SM-FD905-L,SM- FD905-H	w/ SM-AD905-L,SM- AD905-H
Mount		34.9mm	w/ SM-FD905-L,SM- FD905-H	w/ SM-FD905-L,SM- FD905-H	w/ SM-AD905-L,SM- AD905-H
	With B	B plate	-	-	-
	Without BB plate		w/SM-FD905-E	w/SM-FD905-E*	w/SM-AD905-E**
	Direct	mount	w/SM-FD905-D	w/SM-FD905-D*	w/SM-AD905-D**
Chain li	ne (mm)		50	48.8*	48.8*
Chain st	ay angle		66-69	66-69	66-69
Top gea	ar teeth		40T	38-34T	38-34T
Total c	apacity		18T	10T	10T
Applicable Top-Mi	d tooth diff	erence	10T	-	-
Link bu	ıshings		7	7	7
Outer link	Mate	erial	Aluminum	Aluminum	Aluminum
Outer mik	Finish		Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Steel
illier link	Finish		Painted	Painted	Plated
Chain guide	Mate	erial	Aluminum	Aluminum	Steel
- Galac	Fin	ish	Nickel plated	Nickel plated	Nickel plated
Maste	er unit				-
Firmware update b	y E-TUBE PF	ROJECT	х	Х	Х
E-TUBE port (pcs)		1	1	1	
E-TUBE connector (pcs)			-	-	
Average weight (pc) (Ba <mark>nd type:</mark> L size, direct type <mark>w/ bolt)</mark>			125 g	112 g	134 g
Note				* Compatible with the special crankset which chain line is 3 mm outboard.	* for FC 3 mm outboard spec, 51.8 mm ** Compatible with the special crankset which chainline is 3 mm outboard.

DI2 Spec

Mount Adapter for Front Derailleur

Ser	Series		SHIMANO	SHIMANO	SHIMANO
Mode	Model no.		SM-FD905-L	SM-FD905-D	SM-FD905-E
Moun	Mount type		Low clamp band	Direct mount	E type mount
Forms alama hand	Material	Aluminum	Aluminum	-	-
Front clamp band	Finish	Painted	Painted	-	-
Danielania kand	Material	Aluminum	Aluminum	-	-
Rear clamp band	Finish	Painted	Painted	-	-
	28.6mm	*X	*X	-	-
Clamp band diameter	31.8mm	*X	*X	-	-
	34.9mm	х	х	-	-
Direct mound bracket	Material	-	-	Aluminum	Aluminum
Direct mound bracket	Finish	-	-	Painted	Painted
Crankset Top	Crankset Top gear teeth		40-34T	40-34T	40-34T
Average weight		33 g	42.1 g	21.1 g	27.1 g
Note		*W/Multi Clamp Band	*W/Multi Clamp Band	Compatible with the special crankset which chainline is 3 mm outboard.	Compatible with the special crankset which chainline is 3 mm outboard.



SW

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SMAD

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CVM

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SMB

SIMBO

BCC

SMDCE

System Information Display

Se	ries	SHIMANO	SHIMANO
Mod	el no.	SC-M9051	SC-MT800
Compatik	ole system	E-TUBE system	E-TUBE system
Wireless	system***	ANT private*/ Bluetooth®LE	ANT private*/ Bluetooth®LE
Attachme	nt position	Handle bar*	Handle bar**
Display d	etachable	-	-
Adjust	button	Х	Х
	Gear indicator (Rear)	11	11
	Gear indicator (Front)	1/2/3	1/2/3
Display function***	Shifting Mode (Manual/ Synchronized)	Х	X
	Suspension Mode	Х	Х
	Shifting Adjust Mode	Х	Х
	Battery charge level	X	Х
Setting function	Shifting adjust	Х	х
	Shifting adjust indicator	Х	Х
	System diagnosis	Х	Х
For DI2 system	Charging port for built-in battery	Х	Х
	Compatible charger	SM-BCR2	SM-BCR2
	SYNCHRONIZED SHIFT mode change	Х	Х
Maste	er unit	-	-
Firmware update l	by E-TUBE PROJECT	X	Х
E-TUBE p	ort (QTY)	3	3
Average	e weight	30 g	30 g
N.	ote	*2 Spec of clamp band diameter ø31.8	* ANT private has compatibility with ANT+ cycle computer but not freely open profile **2 Spec of clamp band diameter.
·		and ø35.	ø31.8 and ø35.0 ***Data of list of "Display function" is sent to other digital device by ANT private.





Internal Geared Hub

Seri	ies	ALFINE	ALFINE	NEXUS	NEXUS	NEXUS	NEXUS
Function name		INTER-11	INTER-8	INTER-8	INTER-8	INTER-8	INTER-8
Mode	Model no.		SG-S7051-8	SG-C6061-8R	SG-C6061-8V	SG-C6061-8C	SG-C6061-8D
	1	Silver	Silver	Silver	Silver	Silver	Silver
Color	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Brake Type	Mount Type	CENTER LOCK disc brake	CENTER LOCK disc brake	INTER-M	V-BRAKE	Coaster Brake	CENTER LOCK disc brake
втаке туре	Recommnended Model	-	-	-	-	-	-
Spec	eds	11-speed	8-speed	8-speed	8-speed	8-speed	8-speed
	Total	409%	307%	307%	307%	307%	307%
	1	0.527	0.527	0.527	0.527	0.527	0.527
	2	0.681	0.644	0.644	0.644	0.644	0.644
	3	0.770	0.748	0.748	0.748	0.748	0.748
	4	0.878	0.851	0.851	0.851	0.851	0.851
	5	0.995	1	1	1	1	1
Gear ratio -	6	1.134	1.223	1.223	1.223	1.223	1.223
	7	1.292	1.419	1.419	1.419	1.419	1.419
	8	1.462	1.615	1.615	1.615	1.615	1.615
	9	1.667	-	-		-	-
ŀ	10	1.888	-	-	-	-	-
	11	2.153	-	-	-	-	-
Shifting S	Structure	DI2	DI2	DI2	DI2	DI2	DI2
Silent	clutch	Х	X	Х	х	Х	Х
Gear change sup	port mechanism	Х	Х	Х	Х	Х	Х
Shifting POWER	R MODULATOR	Х	х	х	Х	Х	Х
Driving e	fficiency	HIGH	High	High	High	High	High
w/ Left han	-	-	-		X	-	-
O.L.D.	(mm)	135	135	135	135	135	135
Spoke	e size	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14
	28H	Х		-	-	-	-
	32H	х	Х	-	-	Х	Х
Spoke hole	36H	х	Х	Х	х	Х	Х
	Others		-	-	-	-	-
	182		-	-	-	-	-
İ	184	-	-	-	-	-	-
Axle length (mm)	187	X	х	Х	х	Х	х
	193	_	-	-	-	-	-
ļ	Others	-	-	-	-	-	-
Flange dist	ance (mm)	57.3	57.3	58.3	58.3	58.3	57.3
Flange dian		104.3	104.3	105.2	105.2	105.2	105.2
	Right	3.2	3.2	3.2	3.2	3.2	3.2
Flange width (mm)	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset		3.15	3.15	3.1	3.1	3.7	3.4
P.C.D Left / F		92.6	92.6	92.6	92.6	92.6	92.6
	material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell		Anodized	Anodized	Painted	Painted	Painted	Painted
Hub shell	tinish						
Hub shell Average	finish	1,665 g	1,670 g	1,660 g	1,685 g	2,040 g	1,680 g

RD

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SC

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ST

ST

RD

SMAD

EWC

EW

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JC

JC BT

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SMBT

ВСС

SMPCE

Internal Geared Hub

Sei	ries	NEXUS		
	n name	INTER-8		
	el no.	SG-C6061-8CD		
	1	Silver		
Color	2	Black		
Color	3	- Didek		
Brake Type	Mount Type	Coaster and Special disc brake mount for SM-RTC60		
	Recommnended Model	-		
Spe	Speeds			
	Total	307%		
	1	0.527		
	2	0.644		
Gear ratio	3	0.748		
	4	0.851		
	5	1		
	6	1.223		
	7	1.419		
	8	1.615		
	9	-		
	10	-		
	11	_		
Shifting	Structure	DI2		
_	clutch	X		
	pport mechanism	X		
_	R MODULATOR	X		
	efficiency	High		
	nd dust cap	-		
	. (mm)	135		
Spok	e size	#13 / #14		
	28H	- Y		
Spoke hole	32H	X		
	36H	X		
	Others	-		
	182			
	184			
Axle length (mm)	187	Х		
	193	-		
	Others	-		
Flange dist	58.3			
Flange diar	105.2			
Flange width (mm)	Right Left	3.2		
,,	3.2			
Offset	Offset (mm)			
P.C.D Left /	Right. (mm)	92.6		
Hub shell	material	Aluminum		
nub siicii	finish	Painted		
Average	e weight	2,080 g		
	ote			

Motor Unit

Series	ALFINE
Model no.	MU-S705
Compatible internal geared hub	SG-S705 SG-S7051 SG-C6060 SG-C6061
Compatible speed	11/8-speed
Master unit	-
Firmware update by E-TUBE PROJECT	Х
E-TUBE port (pcs)	1
E-TUBE connector (pcs)	0
Average weight	147 g
Note	

Shifting Switch

Series	ALFINE
Model no.	SW-S705
Lever type	Shifting switch
Right switch	X
Left switch	-
Manual shifting switch	x
Display mode change	-
Shift mode (Auto/ Manual) change	-
Auto mode select switch	-
SC integration	-
Electric power connector	E-TUBE
Compatible internal geared hub	SG-S7051 SG-C6060 SG-C6061
Compatible brake lever	BL-S700
Average weight	44 g
Note	



Shifting/Brake Lever

Ser	ies	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		ST-R9150-R	ST-R9150-L	ST-R8050-R	ST-R8050-L	ST-6870	ST-6871
Lever	type	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER
	Front speeds	-	2	-	2	2	2
Shifting lever specifications	Rear speeds	11	-	11	-	11	11
.,	Remote switch	Х	Х	х	х	-	-
	Reach adjust	Х	X	Х	х	X	X
Brake lever specifications	Clamp band (mm)	23.8 / 24.2	23.8 / 24.2	23.8 / 24.2	23.8 / 24.2	23.8 / 24.2	INNER DIA. 19.0 - 22.5
·	SLR-EV	Х	Х	Х	Х	X	Х
Bracket	Material	CFRP	CFRP	GFRP	GFRP	GFRP	CFRP
Бгаскес	Finish	-	-	-	-	-	-
Electric button	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
Electric button	Finish	-	-	-	-	-	-
1	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
Lever	Finish	Painted	Painted	Anodized	Anodized	Painted	Anodized
Maste	er unit	-	-	-	-		-
Firmware update b	y E-TUBE PROJECT	Х	Х	Х	X	х	Х
E-TUBE p	E-TUBE port (pcs)		2	2	2	4	0
E-TUBE con	E-TUBE connector (pcs)		0	0	0	0	2
Port for remote sp	rinter shifter (pcs)	1	1	1	1	2	0
Average	weight	230 g/pair	230 g/pair	147.5 g	147.5 g	303.2 g/pair	148 g/pair
No	ote	-	-		-	-	-

Sei	ries	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA
Mode	el no.	ST-R9160-R	ST-R9160-L	ST-R8060-R	ST-R8060-L
Lever	type	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER
	Front speeds	SYNCHRONIZED SHIFT	SYNCHRONIZED SHIFT	SYNCHRONIZED SHIFT	SYNCHRONIZED SHIFT
Shifting lever specifications	Rear speeds	Outward (default)	Inward (default)	Outward (default)	Inward (default)
	Remote switch	-	-	-	-
	Reach adjust	Х	X	Х	Х
Brake lever specifications	Clamp band (mm)	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5
-	SLR-EV	X	Х	Х	Х
Bracket	Material	GFRP	GFRP	GFRP	GFRP
bracket	Finish	-	-	-	-
Electric button	Material	CFRP	CFRP	CFRP	CFRP
Electric button	Finish	-	-	-	-
Lever	Material	CFRP	CFRP	Aluminum	Aluminum
Level	Finish	Painted	Painted	Anodized	Anodized
Maste	er unit	-	-	-	-
Firmware update l	y E-TUBE PROJECT	Х	х	Х	Х
E-TUBE p	oort (pcs)	1	1	1	1
E-TUBE con	nector (pcs)	0	0	0	0
Port for remote sp	rinter shifter (pcs)	0	0	0	0
Average	weight	127 g/pair	127 g/pair	138 g/pair	138 g/pair
No	ote	-	-	-	-

SW

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SMPCE

Shifting/Brake Lever (Hydraulic disc brake)

Page	Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	
Salfer type	Model no.		ST-R9170-R	ST-R9170-L	ST-R9180-R	ST-R9180-L	ST-R8070-R	ST-R8070-L	
The continue	Color	1	ı	Series color Series color		Series color	Series color	Series color	Series color
Front speeds	60.01		2	-	-	-	-	-	-
Renote witch Ren	Shifter type								
Read		Front	speeds	-	2	-	2	-	2
Shifting lever Specifications Firmware update by Firmware updat		Rear s	peeds	11	-	11	-	11	-
Firmware update by E-108 FMOLECT X		Remote	switch	-	-	-	-	1	1
E-TUBE FROJECT		Maste	r unit	-	-	-	-	-	-
Specifications Campable rear Paralle rype Road 11speed 11speed Road 11speed 11speed Road 11speed 11speed Road 11speed 11speed Road 11speed 11speed Road 11speed 11speed Road 11speed 11speed 11speed Road 11speed 11speed 11speed Road 11speed 11sp	Shifting lever			Х	Х	х	Х	Х	X
Multiple 2 tbp 1 tbp	specifications			Road 11speed	Road 11speed	Road 11speed	Road 11speed	Road 11speed	Road 11speed
Impart Hold X				-	-	-	-	-	-
Suspension switch - - - - - - -			2 step	-	-	-			-
Lever size (Finger) Size		input	Hold	Х	Х	X	X	Х	X
Brake		Suspension	on switch	-	-	-	-	-	-
Hose joint Straight Straight Straight Straight Straight Straight Straight Straight Straight Straight Black		Lever size	e (Finger)	-	-	-	-		-
Brake 1		Brake h	ose (Kit)	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SS	SM-BH90-JK-SS	SM-BH90-JK-SSR	SM-BH90-JK-SSR
Brake lever specifications Finish		Hose	joint	Straight	Straight	Straight	Straight	Straight	Straight
Free from			1	Black	Black	Black	Black	Black	Black
Brake lever specifications Brake SHIMANO Mineral SHIMANO			2	-	-	-	-	-	-
Sepecifications Brake Hindle Sepecifications Hindle Sepecifications Septimental Sepecifications Septimental S	Proko lovor			BR-R9170	BR-R9170	BR-R9170	BR-R9170	BR-R8070	BR-R8070
Adjust Tool X			Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding			Toolless	-	-	-	-	-	-
Free stroke adjust			Tool	х	Х	х	Х	Х	Х
SERVOWAVE -		Funnel bleeding		Х	х	x	Х	Х	Х
Clamp band Clamp		Free stroke adjust		X	X	-	-	Х	X
Clamp band Inner diameter 23.8-24.2 23.8-24.2 INNER DIA. 19.0 - 22.5 INNER DIA. 19.0 - 22.5 23.8-24.2 23.8-24.2		SERVOWAVE)	-	-	-	-
Inner diameter 23.8-24.2 23.8-24.2 INNER DIA. 19.0 - 22.5 INNER DIA. 19.0 - 22.5 23.8-24.2 23.8-24.2	Clamp band	Open	clamp	-	-	-	-	-	-
Finish	Claimp ballu	Inner d	iameter	23.8-24.2	23.8-24.2	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	23.8-24.2	23.8-24.2
Finish	Bracket	Mat	erial	CFRP	CFRP	Aluminum	Aluminum	CFRP	CFRP
Finish	Dideket	Fin	ish		-	-	-	-	-
Main CFRP CFRP -	Flectric button	Mat	erial		-	CFRP	CFRP	-	-
Release	Licetile Button	Fin	ish		-	-	-	-	-
Release	Shifter Lever hody	Ma	ain	CFRP	CFRP	-	-	GFRP	GFRP
Lever Finish Painted P		Rele	ease	-	-	-	-	-	-
Master cylinder Master cylinder Master cylinder Finish CFRP	Lever	Mat	erial	Carbon	Carbon	CFRP	CFRP	Aluminum	Aluminum
Master cylinder Finish -	revei	Fin	ish	Painted	Painted	Painted	Painted	Painted	Painted
Finish - <td>Master cylinder</td> <td>Mat</td> <td>erial</td> <td>CFRP</td> <td>CFRP</td> <td>-</td> <td>-</td> <td>CFRP</td> <td>CFRP</td>	Master cylinder	Mat	erial	CFRP	CFRP	-	-	CFRP	CFRP
E-TUBE port (pcs) 2 2 1 1 2 2 Port for remote sprinter shifter (pcs) 0 0 0 0 0 0 0 Average weight 320 g/pair 320 g/pair 99 g 99 g 180 g 180 g			-	-	-	-	-	-	
Port for remote sprinter shifter (pcs) 0 0 0 0 0 0 Average weight 320 g/pair 320 g/pair 99 g 99 g 180 g 180 g	E-TUBE con	E-TUBE connector (pcs)			0	0	0	0	0
Average weight 320 g/pair 320 g/pair 99 g 99 g 180 g 180 g	E-TUBE p	ort (pcs)			2	1	1	2	2
	Port for remote sp	rinter shifte	er (pcs)	0	0	0	0	0	0
Note	Average	weight		320 g/pair	320 g/pair	99 g	99 g	180 g	180 g
	No	te							

DI2 Spec ROAD

Shifting/Brake Lever (Hydraulic disc brake)

Se	SHIMANO			
Mod	ST-R785			
Color	1 2		Gray	
Color	:	2	-	
Shifte	DUAL CONTROL LEVER			
	Front	speeds	2	
	Rear	peeds	11	
	Remote	switch	-	
	Maste	er unit	-	
al 16.1		update by PROJECT	х	
Shifting lever specifications		ible rear eur type	Road 11speed	
		g lever n adjust	-	
	Multiple	2 step	-	
	input	Hold	х	
	Suspensi	on switch	-	
	Lever siz	e (Finger)	-	
	Brake h	ose (Kit)	SM-BH59SB	
	Hose	joint	Straight	
	Brake	1	Black	
	hose color (kit)	2	White	
	Recommended brake		BR-R785	
Busha lawar		iper	BR-RS785	
Brake lever specifications	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	
	Reach	Toolless	-	
	adjust	Tool	х	
	Funnel	bleeding	Х	
	Free stro	ke adjust	Х	
	SERVO	OWAVE	Х	
	Open	clamp	-	
Clamp band	Inner d	iameter	23.8-24.2	
	-	erial	Aluminum	
Bracket	Fin	ish	Painted	
		erial		
Electric button		ish		
		ain	GFRP	
Shifter Lever body		ease	-	
		erial	Aluminum	
Lever		ish	Painted	
	-	erial	CFRP	
Master cylinder		ish	-	
E-TUBE con	0			
E-TUBE	1 (each ST R/L)			
Port for remote s	0			
	Average weight			
_	ote		500 g/pair	
			ı	



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Shifting Switch

Series SHIMANO		DURA-ACE	SHIMANO	SHIMANO	SHIMANO
Model no.	SW-R9150	SW-R9160	SW-R671	SW-R610	SW-R600
Switch type	Option SW, pair	Bar-end SW for TT, pair	Remote Triathlon shifter Current 2 button design	Remote sprinter shifter	Remote satellite shifter (Climbing shifter)
Position	On road Bar	DH Bar	DH Bar	Anywhere	Anywhere
Compatible electric wire	-	-	EW-SD50	-	EW-SD50
Master unit	-	-	-	-	-
Firmware update by E-TUBE PROJECT	Х	х	Х	х	Х
E-TUBE port (pcs)	0	1	0	0	0
E-TUBE connector (pcs)	1	0	2	0	1
Connector for remote sprinter shifter (pcs)	0	0	0	2	0
Port for remote sprinter shifter (pcs)	0	0	0	0	0
Average weight	12 g	31 g	100 g/pair	5.8 g/pair	21 g
Note					



Rear Derailleur

Series		DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		RD-R9150	RD-R8050-SS	RD-R8050-GS	RD-6870-SS	RD-6870-GS	RD-6770-SS
Pulle	y cage	SS	SS	GS	SS	GS	SS
Rear	speeds	11	11	11	11	11	10
Max fron	t difference	16T	16T	16T	16T	16T	16T
Total o	capacity	33T	33T	37T	33T	37T	33T
Max. lov	v sprocket	30T	30T	34T	28T	32T	28T
Min. lov	v sprocket	25T	25T	28T	23T	28T	23T
Max. to	sprocket	12T	14T	12T	14T	12T	12T
Min. top	sprocket	11T	11T	11T	11T	11T	11T
Mount	Riveted adapter available	-	-	-	-	-	-
	Direct attachment	Х	X*	X*	X	Х	Х
Fluoric coate	d link bushing	4	4	4	4	4	4
11T	11T pulley		Х	Х	Х	X	Х
Sealed bearin	ng guide pulley	Х	Х	Х	X	x	-
Sealed bearing	g tension pulley	Х	Х	Х	X	Х	Х
Bracket hody	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Bracket body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Plate body	Material	CFRP	GFRP	GFRP	CFRP	CFRP	CFRP
riate body	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Outer mik	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Inner link	Material	CFRP	Steel	Steel	Steel	Steel	Steel
milet mik	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Finish		Painted	Painted	Painted	Painted	Painted	Painted
Mast	er unit		-	-	-	-	-
Firmware update by E-TUBE PROJECT		Х	Х	Х	Х	Х	Х
E-TUBE port (pcs)		1	1	1	1	1	1
E-TUBE cor	nnector (pcs)	0	0	0	0	0	0
Averag	e weight	204 g	242 g	249 g	257 g	268 g	270 g
N	ote	w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available			

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Front Derailleur

Series		DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		FD-R9150	FD-R8050	FD-6870-F	FD-6770-F
1		Series color	Series Color	Series color	Series color
Color	2	-	-	-	-
	Front	2	2	2	2
Speeds	Rear	11	11	11	10
Compatil	ble chain	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG 10-speed
Action	TOP SWING	-	-	-	-
Action	Down Swing	Х	Х	х	Х
	Clamp Band1	-	-	-	-
	Clamp Band2	-	-	-	-
Mount	Clamp Band3	-	-	-	-
	Brazed-On	Х	Х	х	х
Chain li	ne (mm)	43.5	43.5	43.5	43.5
Chain st	ay angle	61-66°	61-66°	61-66°	61-66°
Top gear teeth		50-55T	46-53T	46-53T	50-56T
Total ca	apacity	16T	16T	16T	16T
Link bu	ishings	4	2	4	4
Front clamp band	Material	-	-		
Front Clamp band	Finish	-	-	_	-
Rear clamp band,	Material	Aluminum	Aluminum	Aluminum	Aluminum
base bracket	Finish	Anodized	Painted	Painted	Painted
Outer link	Material	CFRP	CFRP	CFRP	Aluminum
Outerlink	Finish	Painted	Painted	Painted	Painted
Inner link	Material	Titanium	Steel	Steel	Steel
inner iink	Finish	-	Plated	Plated	Plated
Chain auide	Material	Aluminum	Steel	Steel	Steel
Chain guide	Finish	Nickel plate <mark>d</mark>	Chrome plated	Chrome plated	Plated
Maste	r unit		-	-	-
Firmware update b	y E-TUBE PROJECT	Х	Х	Х	Х
E-TUBE p	ort (pcs)	1	1	1	1
E-TUBE con	nector (pcs)	0	0	0	0
Average weight (pc direct typ		104 g	132 g	138.5 g	160 g
No	te				

Front Derailleur (Adapter)

Series		DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-AD91-L	SM-AD91-MS	SM-AD90-L	SM-AD90-M	SM-AD90-MS
Front Clamp Band	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Anodized	Anodized
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rear Clamp Band	Finish	Painted	Anodized	Anodized	Anodized	Anodized
	28.6 mm	-	X*	-	-	X*
Clamp band diameter	31.8 mm	-	Х	-	X	х
	34.9 mm	Х	-	Х	-	-
Note			* w/Multi Clamp Band		* w/Multi Clamp Band	* w/Multi Clamp Band



Electric Wire

Series	SHIMANO	SHIMANO
Model no.	EW-SD50	EW-SD50-I
Туре	For External routing	For Built-in routing
Compatible system	E-TUBE system	E-TUBE system
E-TUBE port (QTY)	0	0
E-TUBE connector (QTY)	2	2
Note	Cable lentgh 150-1600mm* * 1600 mm is for E-BIKE usage only	Cable lentgh 150-1600mm* * 1600 mm is for E-BIKE usage only

Cord Cover

Series	SHIMANO
Model no.	SM-EWC2
Specification	Long / Short
Color 1	Black
Color 2	White
Compatible electric wire	EW-SD50
Note	

Grommet

Series	SHIMANO	SHIMANO
Model no.	SM-GM01	SM-GM02
Compatible electric wire	EW-SD50	EW-SD50
Hole dimension on frame	6 mm circle	7 x 8 mm
Note		Y



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Wireless Unit

5	eries	SHIMANO	SHIMANO	
Мо	del no.	EW-WU111	EW-WU101	
Wirel	ss system	ANT private* Bluetooth®LE	ANT private* Bluetooth®LE	
Mas	ter unit	-	-	
Firmware update	by E-TUBE PROJECT	Х	Х	
E-TUBI	port (pcs)	2	2	
E-TUBE co	nnector (pcs)	0	0	
Compa	ible system	Bluetooth®LE corresponding master unit	Bluetooth®LE corresponding master unit	
	Gear position	х	Х	
	DI2 Battery level	Х	Х	
Function**	Adjust mode display	х	Х	
	Suspension mode	х	Х	
	Shift mode	Х	Х	
Avera	ge weight	-	-	
	Note	* ANT private has compatibility with ANT+ cycle computer but not freely open profile ** Display function depends on the specification of cycle computer.	* ANT private has compatibility with ANT+ cycle computer but not freely open profile ** Display function depends on the specification of cycle computer.	



DI2 Spec GENERAL

Junction-A

Se	ries	SHIMANO	SHIMANO	SHIMANO	
Model no.		EW-RS910	SM-EW90-A	SM-EW90-B	
Ту	pe	Built-in type	External type	External type	
Pos	ition	In side of frame or handle	Under stem	Under stem	
Wireles	s system	-	-	-	
Compatib	ole system	E-TUBE	E-TUBE	E-TUBE	
Compatible	electric wire	EW-SD50	EW-SD50	EW-SD50	
Maste	Master unit		-	-	
Firmware update l	by E-TUBE PROJECT	X	х	х	
E-TUBE p	ort (QTY)	2	3	5	
E-TUBE con	nector (QTY)	0	0	0	
Connector for remote	sprinter shifter (QTY)	0	0	0	
Port for remote sp	rinter shifter (QTY)	0	0	0	
Charging	port (QTY)	1	1	1	
	Gear position	х	Х	Х	
Function	DI2 Battery level	х	x	X	
Function	Adjust mode display	Х	Х	Х	
	E-TUBE connection	Х	х	х	
Average	Average weight		10 g	13 g	
No	ote				



Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-JC200	EW-JC130-SS	EW-JC130-SM	EW-JC130-MM	SM-JC41	SM-JC40
Туре	2 ports junction	Y-split rooting-SS	Y-split rooting-SM	Y-split rooting-MM	Junction B	Junction B
Master unit	-			-	-	-
Firuware update by E-TUBE PROJECT	-		-	-	-	-
E-TUBE port (pcs)	2	0	0	0	4	4
E-TUBE connector (pcs)	0	3	3	3	0	0
Average weight	·	-	-	-	4.1 g	8.6 g
Note		Cable length 250 mm 350 mm 50 mm	Cable length 450 mm 350 mm 50 mm	Cable length 550 mm 550 mm 50 mm	For built-in type	For External spec (fixed on frame with screw)

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Battery

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

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	Х	Х	х	
Firmware update by E-TUBE PROJECT	Х	Х	х	
E-TUBE port (pcs)	1	1	1	
E-TUBE connector (pcs)	0	0	0	
Note		-	-	

Battery Case

Sei	SHIMANO	
Mode	el no.	SM-BTC1
Considiration	w/junction	X*
Specification	w/o junction	Х
Мо	Bolt on bottle cage mounting thread	
	E-TUBE port (pcs)	6*
	E-TUBE connector (pcs)	0*
Junction	Compatible battery	BT-DN110
	Compatible EW	EW-SD50
	Battery charging port	-
No	* w/junction spec include one special cable for connecting battery and junction	

DI2 Spec GENERAL

Battery Charger

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

Battery Cable

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						

PC Linkage Device

Series	SHIMANO
Model no.	SM-PCE1
PC Link cable	Including SM-PCE1
Note	

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E-BIKE

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Disc Brake Rotor	246	RT
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Crankarm	247	FC
Chainring	248	CRE
Chain Device	249	CD
Battery	250	вт
Battery Mount	251	вм
Battery Charger	252	EC
DI2 Adapter	252	EWEX
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Cycle Computer

Se	ries	SHIMANO	SHIMANO	SHIMANO
	el no.	SC-E8000	SC-E6010	SC-E6000
1		Standard	Black	Gray
Color	2	-	-	-
3		-	-	-
Mount position	Center on handlebar	X	X	Х
Maste	er unit	-	-	-
Wireles	s system	ANT private/	_	_
		Bluetooth®LE X	V	X
	by E-TUBE PROJECT port (pcs)	4	X 3	3
	nector (pcs)	0	0	0
	Light	X	X	X
	ze (inch)	1.6	2.7	1.85
	eep	X	X	X
	etachable	-	Х	Х
Display Cha	ange Button	Х	-	-
Reset	button	-	-	-
Inside	battery	Х	Х	Х
System on	off button	-	X	-
Light on/	off button	-	X	-
Auto Start	& Auto Stop	-	-	-
	Clock	X	X	X
	Assist mode display	X	Х	X
	Battery charge level	*** X	X	X
	Current Speed	X	X (2/11 I)	X
	Gear Position Display	*, *** X (11-speed)	*X (8/11spd)	*X (8/11spd)
	Start mode	-	X	X
	Automatic shift mode	- ** X	X ** X	** X
	Maximum speed		** X	** X
	Average speed	** X X	X	X
Contents of Display	Trip distance Trip time	** X	** X	** X
	Odometer	X	X	X
	Estimated range	X	X	X
	Range overview	-	X	X
	Assist power			
	indicator	X	Х	-
	Error Message	Х	Х	Х
	Cadence	X	**** X	-
	Human Out put		**** X	_
	Power			
	Calorie	-	**** X	-
	Trip Distance reset	Х	X	X
	Odometer reset	-	- V	- V
	Setting clear Clock adjustment	- X	X	X
	Start mode	^	X	X
	Back light on/off		X	X
	Light on/off	X	- ^	-
	Back light brightness	X	X	-
6	Beep on/off	X	X	X
Setting menu	Unit (km/mile)	X	X	X
	Font color	-	X	-
	Adjusting for shift	*, *** X	*X	*X
	Adjusting for auto		*X	*X
	shift timing	-		
	RD Protection Reset	*, *** X	*X	-
	Bluetooth®LE pairing	X	-	-
	Bluetooth®LE/ANT connection status	Х	-	-
	English	X	X	X
	German	X	X	X
	Dutch	X	X	X
Language	French	X	X	X
	Spanish	X	X	X
	Italian	X	X	X
N	ote	2 Spec of clamp band diameter: 31.8 and ø35.0 * In case of SEIS ** Option by E-TUBE PROJECT *** Data of list of	* In case of SEIS ** Option by E-TUBE PROJECT **** In case of using with DU-E8000	* In case of SEIS ** Option by E-TUBE PROJECT
		"Display function" is sent to other digital device by ANT private.		

E-BIKE

Switch Unit

Sei	Series		SHIMANO	SHIMANO	SHIMANO
Mode	Model no.		SW-E6010-L	SW-E6010-R	SW-E6000
Switch	h Type	FIREBOLT	-	-	-
	1	Standard	Standard	Standard	Gray
Color	2	-	-	-	Black
	3	-	-	-	-
Usa	age	For assist	For assist	For SEIS shift	* For assist or SEIS shift
Righ	t SW	-	-	Х	х
Left	: SW	Х	Х	-	Х
Switch nur	Switch numbers (pcs)		3	3	3
Maste	Master unit		-	-	-
Firmware update b	Firmware update by E-TUBE PROJECT		Х	х	X
E-TUBE p	E-TUBE port (pcs)		0	0	0
E-TUBE con	nector (pcs)	0	1	1	1
System	On-Off	-	-	-	-
Assist Mo	de Change	х	Х	-	х
Display	Display change		Х	X	* X
Automatic/Manual Change		-	-	х	* X
Light (Light On-Off		* X	-	* X
Multiple input	Multiple input 2 step Hold		-		* X
wiuitipie input			-	** X	-
No	Note		* Set by E-TUBE PROJECT	** Available for RD	* Set by E-TUBE PROJECT



SW

DU

SMDU

SMDU

DT

FC

CKE

CD

ВТ

BM

EWEX



Drive Unit

Ser	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	DU-E8080	DU-E8000	DU-E6002	DU-E6012	DU-E6001	DU-E6010
	1	Black	Black	Black	Black	Black	Black
Color	2	-	-	Gray	-	Gray	-
	3	-	-	-	-	-	-
Compatible	Brake type	Disc brake	Disc brake, V-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
Posi	tion	Mid ship	Mid ship	Mid ship	Mid ship	Mid ship	Mid ship
Compatible W	neel Size (mm)	*1,300-3,000	*1,300-3,000	*1,300-2,400	*1,300-2,400	*1,300-2,400	*1,300-2,400
Maximum Rate	d Power (Watt)	250	250	250	250	250	250
Maximum t	orque (Nm)	70	70	50	50	50	50
Rated \	/oltage	DC 36V	DC 36V	DC 36V	DC 36V	DC 36V	DC 36V
DI2	IHG	-	-	*X	*X	*X	*X
DI2 compatible	RD	*X	*X	*X	-	-	-
Light off road	IHG	-	-	*X	-	-	-
compatible	RD	-	-	*X	-	*X	-
	24 km/h	Х	-	-		-	-
Maximum support	25 km/h	-	*X	*X	*X	Х	Х
bike speed	20 mph	-	*X	*X	*X		-
	Other	-	-	-	-	-	-
	Dynamic	-	*X	-	-		-
Riding Characteristics	Explorer	-	*X		·	-	-
setting	Customize	-	*X			-	-
	Light off-road	-	-	*X	*X	*X	-
Assist pattern Setting	Comfort	Х	-	*X	*X	*X	Х
	BOOST	-	Х	-	-	-	-
	HIGH	Х	-	230	230	230	230
Maximum assist ratio	TRAIL	-	X		-	-	-
(%)	NORMAL	Х		150	150	150	150
	ECO	X	Х	70	70	70	70
Power supply		DC 6V	DC 6V	DC 6V	DC 6V	**** DC 6V	**** DC 6V
Power supply	-	DC 6V	DC 6V	DC 6V	DC 6V	**** DC 6V	**** DC 6V
Maximum current							
rear light		2	2	2	2	1	1
Safe way ho	me function	Х	Х	Х	Х	Х	Х
Commu	nication	E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE
Maste	r unit	Х	Х	Х	Х	Х	Х
Firmware update b	y E-TUBE PROJECT	Х	X	Х	Х	Х	Х
E-TUBE p	ort (pcs)	2	2	2	2	2	2
E-TUBE con	nector (pcs)	0	0	0	0	0	0
Port for Li	ght (pcs)	0	0	0	0	2	2
Terminal for	Light (pcs)	1	1	1	1	0	0
Port for Speed	d Sensor (pcs)	1	1	1	1	1	1
Chain case	compatible		-	Х	Х	Х	Х
Chain Device	compatible	Х	Х	-	-	-	-
Torque	sensor	Х	Х	Х	Х	Х	Х
Crank arm po		Х	Х	Х	Х	Х	Х
Bike spee		** X	** X	** X	** X	Х	Х
Cadence		Х	Х	Х	Х	Х	Х
	On/Off	-	Х	*X	*X	-	-
	Standard	-	Х	Х	Х	Х	Х
Walk assist function	Intelligent	-	*** X	-	-	-	-
	Quick	-	X	Х	Х	-	-
	IHG 11s	-	-	-	-	-	-
Automatic shift	IHG 8s	-	-	Х	Х	Х	Х
	RD	-	-	-	-	-	-
	IHG	-	-	Х	Х	Х	Х
SYMPHOMATIC	RD	-	-	-	-	-	-
Compatib		24 mm Axle Serration	24 mm Axle Serration	Square type	Square type	Square type	Square type
DU fixing		-	-	-	-	-	-
No		* 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	* Set by E-TUBE PROJECT ** By using SM-DUE10	* Set by E-TUBE PROJECT **** By using SM-DUE01	* Set by E-TUBE PROJECT **** By using SM-DUE01

E-BIKE

Drive Unit

Sei	ries	SHIMANO	
Mode	DU-E6050		
	1	Black	
Color	2	Gray	
	3	-	
Compatible	Brake type	V-BRAKE, Roller brake, Disc brake	
Moto	Motor type		
Posi	tion	Mid ship	
Compatible W	heel Size (mm)	*1,300-2,400	
Maximum Rate	d Power (Watt)	250	
Maximum t	Maximum torque (Nm)		
	/oltage	DC 36V	
	IHG	*X	
DI2 compatible	RD	-	
Light off road	IHG	-	
compatible	RD	*X	
	24 km/h	_	
Mai	25 km/h	_	
Maximum support bike speed	20 mph	X	
	Other	^	
	Dynamic	-	
Riding Characteristics		-	
setting	Explorer	-	
	Customize	-	
Assist pattern Setting	Light off-road	-	
	Comfort	X	
	BOOST	-	
Maximum assist ratio	HIGH	230	
(%)	TRAIL	-	
	NORMAL	150	
	ECO	70	
	for front light	**** DC 6V	
Power supply	for rear light	**** DC 6V	
	t supply front and t total (A)	1	
Safe way ho	me function	Х	
Commu	nication	E-TUBE	
Maste	er unit	Х	
Firmware update b	y E-TUBE PROJECT	Х	
E-TUBE p	oort (pcs)	2	
E-TUBE con	nector (pcs)	0	
Port for L	ight (pcs)	2	
Terminal for	Light (pcs)	0	
Port for Spee	d Sensor (pcs)	1	
Chain case	compatible	Х	
Chain Device	e comp <mark>atible</mark>	-	
Torque	sensor	Х	
Crank arm po	osition sen <mark>sor</mark>	Х	
Bike spee	ed sensor	Х	
Cadence	e sensor	Х	
	On/Off	-	
Walk assist formation	Standard	Х	
Walk assist function	Intelligent	-	
	Quick		
	IHG 11s	-	
Automatic shift	Automatic shift IHG 8s		
	RD		
IHG		Х	
SYMPHOMATIC	SYMPHOMATIC RD		
Compatib	Square type		
	bolt (pcs)	-	
		* Set by E-TUBE	
	nte	PROJECT **** By using	
Į Na	Note		
No.		SM-DUE01	



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EWEX

Drive Unit Cover

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-DUE80-A	SM-DUE80-B	SM-DUE60	SM-DUE60-45	SM-DUE60-A	SM-DUE60-45A
	1	Gray	Gray	Gray	Gray	Gray	Gray
Color	2	-	-	Black	Black	Black	Black
	3	-	-	-	-	-	-
Cover	Right	Х	х	Х	Х	Х	Х
Cover	Left	х	х	-	-	-	-
Available DU angle		0-60 degree	0-60 degree	0 degree	45 degrees	0 degree	45 degrees
Note		Standard cover	Mount bolt cover			For internal cable routing	For internal cable routing

Speed Sensor Unit

Sei	ries	SHIMANO	SHIMANO
Mode	el no.	SM-DUE11	SM-DUE10
	Disc	Х	Х
Brake Spec	Rim	-	Х
	1	Standard	Standard
Color	2	-	-
	3	-	-
	340	-	Х
Cabla Lanath (mm)	540	-	Х
Cable Length(mm)	760	Х	-
	1400	-	Х
No	ote	-	-

Disc Brake Rotor

Ser	ries	SHIMANO	SHIMANO
Mode	el no.	RT-EM900	RT-EM800
CENTE	RLOCK	х	Х
6-bolt (P.C.	.D. 44 mm)		-
ICE TECHI	NOLOGIES	х	Х
ICE TECHNOL	OGIES FREEZA	Х	-
	203 mm	-	-
Outside diameter	180 mm	X*	X*
Outside diameter	160 mm	X*	X*
	140 mm	-	-
Alloy lo	ock ring	Х	Х
Adapter	Material	Aluminum	Aluminum
Adaptei	Finish	Painted	Painted
Rotor	Material	Stainless steel + Aluminum + Stainless steel	Stainless steel + Aluminum + Stainless steel
	Finish	Polished	Polished
Pad compatibility	Metal	Х	Х
rad companionity	Resin	Х	Х
Average weight	t (w/o lock ring)	142 g (180mm) 127 g (160mm)	150 g (180mm) 129 g (160mm)
No	ote	* For rear only with magnet bracket	* For rear only with magnet bracket

E-BIKE

Adapter for Light

Ser	SHIMANO		
Mode	el no.	SM-DUE01	
	1	Standard	
Color	2	-	
	3	-	
Ту	pe	For DC light	
Cables for limbts	With	*X	
Cables for lights	Without	Х	
Front	light	Х	
Rear	light	Х	
Water proo	Water proof connector		
Wire I	-		
No	* Cable length: 1600 mm		

Crankarm

Ser	Series SHIMANO SHIMANO		SHIMANO	SHIMANO	SHIMANO	DEORE XT
Model no.		FC-E8050	FC-E8000	FC-E6010	FC-E6000	FC-M8050
	1	Standard	Standard	Black	Gray	Series Color
Color	2	-	-	Gray	Black	-
	3	-	_		-	-
Crank arm type	Hollow Tech	Х		-	-	Х
стапк атт туре	Solid	-	X	х	X	-
Q factor (mm)		177	177	213	189.6	177
Chain case	Chain case compatible		-	Х	X	-
	175	х	Х	х	X	Х
Crank arm length	170	X	Х	Х	Х	Х
(mm)	165			-	-	Х
	Others	-		-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Craffik ariff	Finish	Anodized	Painted	Painted	Painted	Anodized
ВВ Туре		24 mm Axle Serration	24 mm Axle Serration	Square type	Square type	24 mm Axle Serration
No	te	-	-	-	-	-

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Chainring

Ser	ies	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	SM-CRE80-B	SM-CRE80	SM-CRE60
	1	Standard	Standard	Black / Silver
	2	-	-	Black / Gray
Color	3	-	-	Black / Gray (double, single chain guard type only)
Gear	speed	1	1	1
	11-speed	*X	*X	х
Rear speed	10-speed	*X	*X	х
kear speed	9-speed	-	-	х
	Single	-	-	х
DYNAMIC CHAIN E	NGAGEMENT Plus	Х	Х	-
	44T	-	x	Х
Chainsing tooth	38T	Х	X	Х
Chainring teeth	34T	Х	x	-
	Others	-	-	-
	Double	-	x	Х
Chain guard type	Single	-	-	х
	W/O CG	х	x	Х
Chainring fix	ring lock nut	Included in drive unit	Included in drive unit	Included in drive unit
Chainring cover ou	ter diameter (mm)	-	-	95.5 (w/o CG only)
Chain case	compatible	-	-	X (single, w/o CG only)
	53	Х		
Chainline (mm)	50	-	X	-
	46.5	-	-	х
P.C.D.	(mm)	104	104	-
Chain ring	Material	Steel	Steel	Steel
Chain ring	Finish	Plating	Plating	Painted
Spider arm	Material	Aluminum	Aluminum	-
Spider aim	Finish	Anodized	Anodized	-
Chainring fixing bolt	Material	Stainless steel	Stainless steel	-
Chaming fixing boil	Finish	SP Black	SP Black	-
Gear	arms	4 arm	4 arm	-
No	rte	* E-BIKE RD system compatible chain	* E-BIKE RD system compatible chain	-



E-BIKE

Chain Device

Se	ries	SHIMANO	SHIMANO
Mod	el no.	SM-CDE80	SM-CDE80
	1	Standard	Standard
Color	2	-	-
	3	-	-
Chain Line (mm)	53	Х	X*
Chain Line (min)	50	-	X*
Chain compatibility	11Speed	Х	X
Chain compatibility	10Speed	X	Х
Ton Coox Tooth	38T	х	х
Top Gear Teeth	34T	Х	X
	11-36	Х	Х
Assumed Rear	11-40	х	х
Sprocket Teeth	11-42	Х	Х
	11-46	Х	Х
Direct Mount	to Drive Unit	Х	-
Compatible	Drive Unit	DU-E8000	DU-E8000
Rear suspensi	on stroke(mm)	0-170	0-170
Back plate	Material	Aluminum	-
Back plate	Finish	Anodized	-
Chain guide	Material	Resin	Resin
No	ote	w/plate	1.w/o plate 2.X* means 53 mm frame or 50 mm frame

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Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	el no.	BT-E8010	BT-E8020	BT-E6001	BT-E6000	BT-E6010	BT-E8010
	1	Black	Black	Black	Black	Black	Black
Color	2	-	-	Gray	Gray	Gray	-
	3	-	-	-	-	-	-
Chem	nistry	Li-Ion	Li-lon	Li-lon	Li-Ion	Li-lon	Li-lon
Posi	tion	Down tube	Down tube	Rear carrier	Rear carrier	Down tube	Down tube
Rated vo	ltage (V)	36	36	36	36	36	36
Rated cap	acity (Ah)	14	14	14	11.6	11.6	13
Rated cap	acity (Wh)	504	504	504	418	418	504
Cyclelife span fo	or charge (times)	1000 (more than 60%)	1000 (more than 60%)	1000 (more than 60%)	1000 (more than 60%)	1000 (more than 60%)	1000 (more than 60%)
Time to cha	arge (hour)	*5	*5	*5	*4	*4	*5
Charge lev	el display	х	х	Х	х	X	Х
Error	signal	х	Х	Х	х	х	Х
Chargir	ng port	Х	Х	-		-	Х
Tail light / Refle	ctor integration	-	-	-	-		-
System on	off switch	Х	Х	Х	X	Х	Х
Compatible b	attery mount	BM-E8010	BM-E8020	BM-E6000	BM-E6000	BM-E6000	BM-E8010
Compatib	le charger	EC-E6000	EC-E6000	EC-E6000	EC-E6000	EC-E6000	EC-E6000-3 (for Japan)
No	te	*By EC-E6000	For Japan * By EC-E6000-3				

Ser	SHIMANO		
Mode	el no.	BT-E6010	
	1	Black	
Color	2	-	
	3	-	
Chen	nistry	Li-lon	
Posi	tion	Down tube	
Rated vo	ltage (V)	36	
Rated cap	acity (Ah)	10.9	
Rated cap	acity (Wh)	418	
Cyclelife span fo	Cyclelife span for charge (times)		
Time to cha	arge (hour)	*4	
Charge lev	vel display	Х	
Error	signal	Х	
Chargii	ng port	-	
Tail light / Refle	ctor integration	-	
System on	off switch	Х	
Compatible b	Compatible battery mount		
Compatib	Compatible charger		
No	Note		

Battery Mount

Ser	ies	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	Model no.		BM-E8020	BM-E6000-A	ВМ-Е6000-В	BM-E6010
	1	Black	Black	Black	Black	Black
Color	2	-	-	Gray	Gray	-
	3	-	•	-	-	-
Posi	tion	Down tube	Down tube	Rear carrier	Rear carrier	Down tube
Chargir	ng port	-	-	* X	* X	* X
Key	hole	х	Х	Х	Х	Х
System on	System on/off switch		-	-	-	-
Battery	Battery cable		Х	Х	Х	Х
	250	X	Х	-	-	X
	300	х	-	-	-	Х
	400	-	Х	-	-	-
Dattam, sabla lawath	600	х	-	-	-	X
Battery cable length	900	-	-	-		-
	920	-	-	Х	Х	-
	1000	-	-	-		
	1020	-	-	х	х	-
Compatib	le battery	BT-E8010	BT-E8020	BT-E6000/BT-E6001	BT-E6000/BT-E6001	BT-E6010
No	te		-	*By EC-E6000	*By EC-E6000	*By EC-E6000



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Ver. 2.8, Feb. 6, 2018, SHIMANO INC.

Battery Charger

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Mode	Model no.		EC-E6000-2	EC-E6000-3	EC-E6000-4	EC-E6000-6	EC-E6000-7
	1	Standard	Standard	Standard	Standard	Standard	Standard
Color	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Typical example	country / Region	Europe	USA / Canada	Japan	Australia / New Zealand	UK	Korea
Compatib	le battery	BT-E6000/BT-E6001/ BT-E6010 BT-E8010/BT-E8020	BT-E6000/BT-E6001/ BT-E6010 BT-E8010/BT-E8020	BT-E6010 (for Japan) BT-E8010 (for Japan)	BT-E6000/BT-E6001/ BT-E6010 BT-E8010/BT-E8020	BT-E6000/BT-E6001/ BT-E6010 BT-E8010/BT-E8020	BT-E6000/BT-E6001/ BT-E6010 BT-E8010/BT-E8020
Compatible b	attery mount	BM-E6000/BM-E6010	BM-E6000/BM-E6010	BM-E6000/BM-E6010	BM-E6000/BM-E6010	BM-E6000/BM-E6010	BM-E6000/BM-E6010
Compatib	le voltage	AC100 V-240 V 50-60 Hz	AC100 V-240 V 50-60 Hz	AC100 V 50-60 Hz	AC100 V-240 V 50-60 Hz	AC100 V-240 V 50-60Hz	AC100 V-240 V 50-60 Hz
CE sta	ndard	Х	х	Х	Х	Х	Х
UL sta	UL standard		Х	Х	Х	X	Х
Korea s	Korea standard		-	-	-		Х
Time to full o	Time to full charge (hour)		*4 / **5	*4 / **5	*4 / **5	*4 / **5	*4 / **5
Time to 80%	charge (hour)	*2 / **2.5	*2 / **2.5	*2 / **2.5	*2 / **2.5	*2 / **2.5	*2 / **2.5
Charging Le	evel Display	-	-	-	-	-	-
Plug in cha	arging type	Х	х	х	Х	Х	Х
Charging to	emperature	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C
Storage te	mperature	-20-60 °C	-20-60 °C	-20-60 °C	-20-60 °C	-20-60 °C	-20-60 °C
Error	signal	Х	X	Х	х	Х	Х
Adapter for ba	ttery connecter	Х	Х	Х	Х	Х	Х
Compatible A	C power cable	-	-	-	-	-	-
Built in A	AC cable	Х	X	Х	х	Х	Х
Built in AC ca	ble length (m)	1	2	1	1	1	1
No	ote	* In case of BT-E6000 & BT-E6010 ** In case of BT-E6001, BT-E8010 & BT-E8020	* In case of BT-E6000 & BT-E6010 ** In case of BT-E6001, BT-E8010 & BT-E8020	* In case of BT-E6010 (for Japan) ** In case of BT-E8010 (for Japan)	* In case of BT-E6000 & BT-E6010 ** In case of BT-E6001, BT-E8010 & BT-E8020	* In case of BT-E6000 & BT-E6010 ** In case of BT-E6001, BT-E8010 & BT-E8020	* In case of BT-E6000 & BT-E6010 ** In case of BT-E6001, BT-E8010 & BT-E8020

DI2 Adapter

Series	SHIMANO	SHIMANO
Model no.	EW-EX010	EW-EX020
Type of DI2 component	Master unit	Master unit
E-TUBE connector QTY		-
E-TUBE port QTY	2	2
Compatible EW	EW-SD50	EW-SD50
Note	DI2 adapter B (for BOSCH ebike system)	DI2 adapter A (for Panasonic ebike system)

