

ARCHIVE

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SHIMANO

2018-2019

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.
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Visit SHIMANO PRODUCT WEBSITE for the latest information.

Word definitions

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

ARCHIVE

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CI-DECK	101	CI-DECK

Shifting Lever

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		SL-M9100-R	SL-M9100-IR	SL-M9100-L	SL-M9100-IL	SL-M9000-R	SL-M9000-L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	-	2	2	-	2/3
Rear speeds		12	12	-	-	11	-
Compatible rear derailleur type		12-speed RD	12-speed RD	-	-	MTB 11-speed RD	-
Mount Type	Clamp band	X	-	X	-	X	X
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	X	-	X	-	-
Shifting lever position adjust		-	X	-	X	-	-
Shifting lever rotation adjust		-	X	-	X	-	-
Shifting lever cable adjust		X	X	X	X	X	X
Front 2/3 mode converter		-	-	-	-	-	-
Rear 11 (Wide flange) / 12 mode converter		X	X	-	-	-	-
Max. multiple shifts (Main lever/ rear)		4	4	-	-	4	-
Release function	MULTI RELEASE	X	X	-	-	X**	-
	INSTANT RELEASE	X	X	X	X	X	X
	2WAY-RELEASE	X	X	X	X	X	X
OPTICAL GEAR DISPLAY	with	-	-	-	-	-	-
	with (removable)	-	-	-	-	-	-
	without	X	X	X	X	X	X
Multi-Bearing construction		4	4	4	4	4	4
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Anodized	Painted	Anodized	Anodized
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	CFRP	CFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material	CFRP	CFRP	-	-	CFRP	CFRP
	Finish	-	-	-	-	-	-
Base cover	Material	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Polymer-coated	Polymer-coated	Polymer-coated	Polymer-coated	Polymer-coated	Polymer-coated
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		117 g	112 g	79 g	74 g	200 g/pair	200 g/pair
Note		-	-	-	-	**pull:single, push:double	

Shifting Lever

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		SL-M9000-IR	SL-M9000-IL	SL-M980-A-R	SL-M980-A-L	SL-M980-B-IR	SL-M980-B-IL
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	2/3	-	2/3	-	2/3
Rear speeds		11	-	10	-	10	-
Compatible rear derailleur type		MTB 11-speed RD	-	MTB 10-speed RD	-	MTB 10-speed RD	-
Mount Type	Clamp band	-	-	X	X	-	-
	I-SPEC B	-	-	-	-	X	X
	I-SPEC II	X	X	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		X	X	-	-	X	X
Shifting lever rotation adjust		X	X	-	-	-	-
Shifting lever cable adjust		X	X	X (CFRP)	X (CFRP)	X (CFRP)	X (CFRP)
Front 2/3 mode converter		-	-	-	X	-	X
Rear 11 (Wide flange) / 12 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		4	-	4	-	4	-
Release function	MULTI RELEASE	X**	-	X	-	X	-
	INSTANT RELEASE	X	X	X	X	X	X
	2WAY-RELEASE	X	X	X	X	X	X
OPTICAL GEAR DISPLAY	with	-	-	-	-	-	-
	with (removable)	-	-	-	-	-	-
	without	X	X	X	X	X	X
Multi-Bearing construction		4	4	4	4	4	4
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Clamp bolt	Material	-	-	Stainless steel	Stainless steel	-	-
	Finish	-	-	-	-	-	-
Main lever body	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Anodized	Anodized
Release lever body	Material	CFRP	CFRP	CFRP & Steel	CFRP & Steel	CFRP & Steel	CFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Polymer-coated	Polymer-coated	SIL-TEC	SIL-TEC	SIL-TEC	SIL-TEC
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		205 g/pair	205 g/pair	99 g	104 g	103 g	98 g
Note		**pull:single, push:double					

SL

SLMT

SMS

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

Q-DECK

Shifting Lever

Series		SAINT	SAINT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		SL-M820	SL-M820-B-I	SL-M8000-R	SL-M8000-L	SL-M8000-IR	SL-M8000-IL
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	-	-	2/3	-	2/3
Rear speeds		10	10	11	-	11	-
Compatible rear derailleur type		MTB 10-speed RD	MTB 10-speed RD	MTB 11-speed RD	-	MTB 11-speed RD	-
Mount Type	Clamp band	X	-	X	X	-	-
	I-SPEC B	-	X**	-	-	-	-
	I-SPEC II	-	-	-	-	X	X
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	X	-	-	X	X
Shifting lever rotation adjust		-	-	-	-	X	X
Shifting lever cable adjust		X (CFRP)	X (CFRP)	X	X	X	X
Front 2/3 mode converter		-	-	-	-	-	-
Rear 11 (Wide flange) / 12 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		4	4	4	-	4	-
Release function	MULTI RELEASE	X*	X*	X*	-	X*	-
	INSTANT RELEASE	X	X	X	X	X	X
	2WAY-RELEASE	X	X	X	X	X	X
OPTICAL GEAR DISPLAY	with	-	-	-	-	-	-
	with (removable)	-	-	X	X	-	-
	without	X	X	X	X	X	X
Multi-Bearing construction		4	4	2	2	2	2
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	-	Stainless steel	Stainless steel	-	-
	Finish	Black	-	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		123 g	114 g	127 g	117 g	120 g	110 g
Note		*pull:single, push:double	*pull:single, push:double **I-spec B-type	*pull:single, push:double		*pull:single, push:double	

Shifting Lever

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		SL-M8000-B-IR	SL-M8000-B-IL	SL-M780-B-IR	SL-M780-B-IL	SL-M780-R	SL-M780-L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	2/3	-	2/3	-	2/3
Rear speeds		11	-	10	-	10	-
Compatible rear derailleur type		MTB 11-speed RD	-	MTB 10-speed RD	-	MTB 10-speed RD	-
Mount Type	Clamp band	-	-	-	-	X	X
	I-SPEC B	X	X	X	X	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		X	X	X	X	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
Front 2/3 mode converter		-	-	-	X	-	X
Rear 11 (Wide flange) / 12 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		4	-	4	-	4	-
Release function	MULTI RELEASE	X*	-	X	-	X	-
	INSTANT RELEASE	X	X	X	X	X	X
	2WAY-RELEASE	X	X	X	X	X	X
OPTICAL GEAR DISPLAY	with	-	-	-	-	-	-
	with (removable)	-	-	-	-	X	X
	without	X	X	X	X	X	X
Multi-Bearing construction		2	2	2	2	2	2
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	-	-	-	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK	-	-	-	-
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		117 g	107 g	114 g	106 g	128 g	121 g
Note		*pull:single, push:double					

SL

SLMT

SMS

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

Q-DECK

Shifting Lever

Series		DEORE XT	DEORE XT	SLX	SLX	SLX	SLX
Model no.		SL-M770-A-R	SL-M770-A-L	SL-M7000-11-R	SL-M7000-L	SL-M7000-11-IR	SL-M7000-IL
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	3	-	2/3	-	2/3
Rear speeds		9	-	11	-	11	-
Compatible rear derailleur type		MTB 9-speed RD	-	MTB 11-speed	-	MTB 11-speed	-
Mount Type	Clamp band	X	X	X	X	-	-
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	X	X
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	X	X
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
Front 2/3 mode converter		-	-	-	-	-	-
Rear 11 (Wide flange) / 12 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		4	-	3	-	3	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	X	X	-	-	-	-
	2WAY-RELEASE	X	X	X	X	X	X
OPTICAL GEAR DISPLAY	with	-	-	-	-	-	-
	with (removable)	X	X	X	X	-	-
	without	X	X	X	X	X	X
Multi-Bearing construction		2	2	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-	-
	Finish	-	-	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	Painted	Painted	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	GFRP	GFRP	GFRP	GFRP
	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 shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		255 g/pair	255 g/pair	135 g	130 g	120 g	115 g
Note							

Shifting Lever

Series		SLX	SLX	SLX	SLX	SLX	SLX
Model no.		SL-M7000-11-B-IR	SL-M7000-B-IL	SL-M7000-10-R	SL-M7000-10-IR	SL-M7000-10-B-IR	SL-M670-B-IR
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	2/3	-	-	-	-
Rear speeds		11	-	10	10	10	10
Compatible rear derailleur type		MTB 11-speed	-	MTB 10-speed	MTB 10-speed	MTB 10-speed	MTB 10-speed RD
Mount Type	Clamp band	-	-	X	-	-	-
	I-SPEC B	X	X	-	-	X	X
	I-SPEC II	-	-	-	X	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		X	X	-	X	X	X
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
Front 2/3 mode converter		-	-	-	-	-	-
Rear 11 (Wide flange) / 12 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		3	-	3	3	3	3
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	X	X	X	X	X	X
OPTICAL GEAR DISPLAY	with	-	-	-	-	-	-
	with (removable)	-	-	X	-	-	-
	without	X	X	X	X	X	X
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	-	Stainless steel	-	-	-
	Finish	-	-	-	-	-	-
Main lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	-
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		127 g	120 g	135 g	120 g	127 g	121 g
Note							

SL

SLMT

SMS

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

Q-DECK

Shifting Lever

Series		SLX	ZEE	DEORE	DEORE	DEORE	DEORE
Model no.		SL-M670-B-IL	SL-M640	SL-M6000-R	SL-M6000-L	SL-M6000-IR	SL-M6000-IL
Color	1	Series color	Series color	Series black	Series black	Series black	Series black
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2/3	-	-	2/3	-	2/3
Rear speeds		-	10	10	-	10	-
Compatible rear derailleur type		-	MTB 10-speed RD	MTB 10-speed RD	-	MTB 10-speed RD	-
Mount Type	Clamp band	-	X	X	X	-	-
	I-SPEC B	X	-	-	-	-	-
	I-SPEC II	-	-	-	-	X	X
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		X	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
Front 2/3 mode converter		X	-	-	-	-	-
Rear 11 (Wide flange) / 12 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		-	3	3	-	3	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	X	X	X	X	X	X
OPTICAL GEAR DISPLAY	with	-	-	X	X	-	-
	with (removable)	-	-	-	-	-	-
	without	X	X	X	X	X	X
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	Stainless steel	Stainless steel	Stainless steel	-	-
	Finish	-	-	-	-	-	-
Main lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		116 g	127 g	-	-	-	-
Note							

Shifting Lever

Series		DEORE	DEORE	DEORE	DEORE	ALIVIO	ALIVIO
Model no.		SL-M610-IR	SL-M610-IL	SL-M590-R	SL-M590-L	SL-M4000-R	SL-M4000-L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	2/3	-	3	-	3
Rear speeds		10	-	9	-	9	-
Compatible rear derailleur type		MTB 10-speed RD	-	MTB 9-speed RD	-	MTB 9-speed RD	-
Mount Type	Clamp band	-	-	X	X	X	X
	I-SPEC B	X	X	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
Front 2/3 mode converter		-	X	-	-	-	-
Rear 11 (Wide flange) / 12 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		3	-	3	-	3	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	X	X	X	X	X	X
OPTICAL GEAR DISPLAY	with	-	-	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	X	X	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Main lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	Standard	Standard
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		-	-	-	-	-	-
Note							

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Q-DECK

Shifting Lever

Series		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
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2	-	3	2	-	3
Rear speeds		-	9	-	-	8	-
Compatible rear derailleur type		-	MTB 9-speed RD	-	-	MTB 8-speed RD	-
Mount Type	Clamp band	X	X	X	X	X	X
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
Front 2/3 mode converter		-	-	-	-	-	-
Rear 11 (Wide flange) / 12 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		-	3	-	-	3	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	X	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
	Finish	-	-	-	-	-	-
Main lever body	Material	Resin & Steel	Steel & Resin	Steel & Resin	Steel & Resin	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin & Steel	Steel & Resin	Steel & Resin	Steel & Resin	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Steel*	Steel*	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		-	-	-	-	-	-
Note			*Stainless steel option available	*Stainless steel option available			

Shifting Lever

Series		ALTUS	ALTUS	SHIMANO	SHIMANO	SHIMANO	TOURNEY
Model no.		SL-M2000-R	SL-M2000-L	SL-M310-8R	SL-M310-7R	SL-M310-L	SL-RS47-8R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	REVOSHIFT
Front speeds		-	3	-	-	3	-
Rear speeds		9	-	8	7	-	8
Compatible rear derailleur type		MTB 9-speed RD	-	MTB 8-speed RD	MTB 7-speed RD	-	MTB 8-speed RD
Mount Type	Clamp band	X	X	X	X	X	X
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
Front 2/3 mode converter		-	-	-	-	-	-
Rear 11 (Wide flange) / 12 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		3	-	3	3	-	7
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	-	-	-	-
Main lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	-
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	OPTISLICK	OPTISLICK	Standard	Standard	Standard	Standard
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40
Average Weight (pc)		-	-	-	-	-	-
Note							OGD frame :Chrome plating Compatible with CI-DECK

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CI-DECK

Shifting Lever

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-RS47-7R	SL-RS47-L	SL-RS45-8R	SL-RS45-7R	SL-RS45-6R	SL-RS45-L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front speeds		-	3	-	-	-	3
Rear speeds		7	-	8	7	6	-
Compatible rear derailleur type		MTB 7-speed RD	-	MTB 8-speed RD	MTB 7-speed RD	MTB 6-speed RD	-
Mount Type	Clamp band	X	X	X	X	X	X
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
Front 2/3 mode converter		-	-	-	-	-	-
Rear 11 (Wide flange) / 12 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		6	-	7	6	5	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Main lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shifting lever outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average Weight (pc)		-	-	-	-	-	-
Note		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

Shifting Lever

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-RS36-7R	SL-RS36-6R	SL-RS36-L	SL-RS35-7R	SL-RS35-6R	SL-RS35-L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front speeds		-	-	3	-	-	3
Rear speeds		7	6	-	7	6	-
Compatible rear derailleur type		MTB 7-speed RD	MTB 6-speed RD	-	MTB 7-speed RD	MTB 6-speed RD	-
Mount Type	Clamp band	X	X	X	X	X	X
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		-	-	X	-	-	X
Front 2/3 mode converter		-	-	-	-	-	-
Rear 11 (Wide flange) / 12 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		6	5	-	6	5	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Steel	Steel	Steel	Resin	Resin	Resin
	Finish	Painted	Painted	Painted	Resin	Resin	Resin
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Main lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shifting lever outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average Weight (pc)		-	-	-	-	-	-
Note		w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option

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CI-DECK

Shifting Lever

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-RS35-LN	SL-RS34-6R	SM-RS34-L	SL-FT55-7R	SL-TX50-7R	SL-TX50-6R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		REVOSHIFT	REVOSHIFT	-	Thumb shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus
Front speeds		3 (Friction)	-	-	-	-	-
Rear speeds		-	6	-	7	7	6
Compatible rear derailleur type		-	MTB 6-speed RD	-	MTB 7-speed RD	MTB 7-speed RD	MTB 6-speed RD
Mount Type	Clamp band	X	X	X	X	X	X
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Rear 11 (Wide flange) / 12 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		-	5	-	6	6	5
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	X	X	-	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Resin	Steel	Steel	Steel	Steel	Steel
	Finish	Resin	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Main lever body	Material	-	-	-	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Steel	-	Steel	Steel	Steel
	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			

Shifting Lever

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY TZ
Model no.		SL-TX50-L	SL-TX50-LN	SL-TX30-7R	SL-TX30-6R	SL-TX30-LN	SL-TZ500-7R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter
Front speeds		3	3 (Friction)	-	-	3 (Friction)	-
Rear speeds		-	-	7	6	-	7
Compatible rear derailleur type		-	-	MTB 7-speed RD	MTB 6-speed RD	-	MTB 7-speed RD
Mount Type	Clamp band	X	X	X	X	X	X
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	-	-	X	-
Front 2/3 mode converter		-	-	-	-	-	-
Rear 11 (Wide flange) / 12 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		-	-	6	5	-	6
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	X	X	X	X	X	X*
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	Zinc plated
Main lever body	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin	Resin	Resin	Resin	Resin	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shifting lever outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average Weight (pc)		-	-	-	-	-	-
Note							* Gear Position Indicator

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Q-DECK

Shifting Lever

Series		TOURNEY TZ	TOURNEY TZ
Model no.		SL-TZ500-6R	SL-TZ500-LN
Color	1	Series color	Series color
	2	-	-
Shifter type		Thumb Shifter	Thumb Shifter
Front speeds		-	3 (Friction)
Rear speeds		6	-
Compatible rear derailleur type		MTB 6-speed RD	-
Mount Type	Clamp band	X	X
	I-SPEC B	-	-
	I-SPEC II	-	-
	I-SPEC EV	-	-
Shifting lever position adjust		-	-
Shifting lever rotation adjust		-	-
Shifting lever cable adjust		-	-
Front 2/3 mode converter		-	-
Rear 11 (Wide flange) / 12 mode converter		-	-
Max. multiple shifts (Main lever/ rear)		5	-
Release function	MULTI RELEASE	-	-
	INSTANT RELEASE	-	-
	2WAY-RELEASE	-	-
OPTICAL GEAR DISPLAY	with	X*	X*
	with (removable)	-	-
	without	-	-
Multi-Bearing construction		-	-
Shifting lever bracket	Material	Steel	Steel
	Finish	Painted	Painted
Clamp bolt	Material	Steel	Steel
	Finish	Zinc plated	Zinc plated
Main lever body	Material	Resin	Resin
	Finish	-	-
Release lever body	Material	-	-
	Finish	-	-
Base cover	Material	Resin	Resin
	Finish	-	-
Shifting lever cable	Material	Steel	Steel
	Finish	Standard	Standard
Recommended shifting lever outer casing		OT-SIS40	OT-SIS40
Average Weight (pc)		-	-
Note		* Gear Position Indicator	* Gear Position Indicator

Seat Post Lever

Series		SHIMANO
Model no.		SL-MT800-IL
Color	1	Black
	2	-
Lever type		Seat Post Lever
Mount Type	Clamp band	-
	I-SPEC B	-
	I-SPEC II	-
	I-SPEC EV	X
Lever position adjust		X
Lever rotation adjust		X
Cable adjuster		X
Bearing construction		X
Body	Material	Aluminum
	Finish	Painted
Lever	Material	Aluminum
	Finish	Painted
Inner cable	Material	Stainless steel
	Finish	OPTISLICK
Recommended shifting lever outer casing		OT-SP41
Average weight (pc)		37 g
Note		SHIMANO logo

ARCHIVE

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CI-DECK

Shifting Lever (Integration Unit)

Series		XTR	XTR	SAINT	DEORE XT	DEORE XT
Model no.		SM-SL98-B-R	SM-SL98-B-L	SM-SL82-B	SM-SL78-B-R	SM-SL78-B-L
Base cover material		CFRP	CFRP	GFRP	GFRP	GFRP
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted
I-SPEC compatible		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	*I-SPEC B-type compatible	*I-SPEC B-type compatible	*I-SPEC B-type compatible	*I-SPEC B-type compatible

ARCHIVE

Brake Lever (Hydraulic disc brake)

Series		XTR	XTR	XTR	XTR	SAINT	DEORE XT
Model no.		BL-M9100	BL-M9120	BL-M9000	BL-M9020	BL-M820-B	BL-M8000
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (Finger)		2	2	2	2	2	2
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake hose (Kit)		SM-BH90-SS	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBM
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	White	-
J-Kit spec (for OEM)		X	X	X	X	X	X
SERVOWAVE		-	X	-	X	X	X
Reach adjust	Toolless	-	X	-	X	X	X
	Tool	X	-	X	-	-	-
Free stroke adjust		-	X	-	X	X	X
Compatible shifting lever mount	Clamp band	X	X	X	X	X	X
	I-SPEC B	-	-	-	-	X*	-
	I-SPEC II	-	-	X	X	-	X
	I-SPEC EV	X	X	-	-	-	-
Clamp band	Open clamp	X	X	X	X	X	X
Recommended brake caliper		BR-M9100	BR-M9120	BR-M9000	BR-M9020	BR-M820	BR-M8000
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		X	X	X	X	X	X
Clamp bolt	Material	Aluminum	SUS	Aluminum	Aluminum	Stainless steel	Stainless steel
	Finish	Anodized	Painted	Anodized	Anodized	Painted	-
Brake lever	Material	Carbon	Aluminum	CFRP	Aluminum+CFRP	Aluminum	Aluminum
	Finish	Painted	Anodized	Painted	Painted	Anodized	Anodized
Master cylinder	Material	Magnesium	Aluminum	Magnesium	Aluminum	Aluminum	Aluminum
	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)		312 g	385 g	316 g	360 g	103.2 g**	402.5 g
Note		-	-	-	-	*I-SPEC B-type **single item weight	-

- SL
- SLMT
- SMSL
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Brake Lever (Hydraulic disc brake)

Series		SLX	ZEE	DEORE	SHIMANO	SHIMANO	SHIMANO
Model no.		BL-M7000	BL-M640-B	BL-M6000	BL-MT500	BL-MT501	BL-MT400
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic disc brake
Lever size (Finger)		2	2	2	2	2	2
Color	1	Series color	Series color	Series Black	Black	Black	Black (Metallic silver lever)
	2	-	-	Black (SHIMANO logo)**	-	-	Black (Black lever)
	3	-	-	-	-	-	-
Brake hose (Kit)		SM-BH90-SBM	SM-BH90-SBS	SM-BH90-SS	SM-BH59-JK-SS	SM-BH59-JK-SS (for BR-MT500) SM-BH90-SS (for BR-MT520)	SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	White	-	-	-	-
J-Kit spec (for OEM)		X	X	X	X	X	-
SERVO WAVE		X	X	X	X	X	-
Reach adjust	Toolless	X	-	-	-	-	-
	Tool	-	X	X	X	X	X
Free stroke adjust		-	-	-	-	-	-
Compatible shifting lever mount	Clamp band	X	X	X	X	X	-
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	X	X	X	X	X	-
	I-SPEC EV	-	-	-	-	-	-
Clamp band	Open clamp	X	X	X	X	X	-
Recommended brake caliper		BR-M7000	BR-M640	BR-M6000	BR-MT500	BR-MT500 BR-MT520	BR-MT400
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		X	X	X	X	X	X
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel
	Finish	-	-	-	-	-	Plated
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (kit for front 800 mm, w/160 mm recommend RT, w/locking, w/o adapter, w/2bolts, w/ Resin pad)		418.8 g	116.7 g**	-	-	-	-
Note			* I-SPEC B-type ** single item weight	** M6000 kit only		-	-

Brake Lever (Hydraulic disc brake)

Series		SHIMANO	SHIMANO
Model no.		BL-MT201	BL-MT200
Brake type		Hydraulic disc brake	Hydraulic disc brake
Lever size (Finger)		3	3
Color	1	Black	Black
	2	-	-
	3	-	-
Brake hose (Kit)		SM-BH59-JK-SS	SM-BH59-JK-SS
Hose joint		Straight	Straight
Brake hose color (kit)	1	Black	Black
	2	-	-
J-Kit spec (for OEM)		-	-
SERVOWAVE		-	-
Reach adjust	Toolless	-	-
	Tool	X	X
Free stroke adjust		-	-
Compatible shifting lever mount	Clamp band	-	-
	I-SPEC B	-	-
	I-SPEC II	-	-
	I-SPEC EV	-	-
Clamp band	Open clamp	-	-
Recommended brake caliper		BR-MT200 / BR-UR300	BR-MT200 / BR-UR300
Oil		SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		X	X
Clamp bolt	Material	Steel	Steel
	Finish	Plated	Plated
Brake lever	Material	Aluminum	Steel
	Finish	Anodized	Painted
Master cylinder	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Average weight (kit for front 800 mm, w/160 mm recommend RT, w/locking, w/o adapter, w/2bolts, w/ Resin pad)		-	-
Note		-	-

SL

SLMT

SMS

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

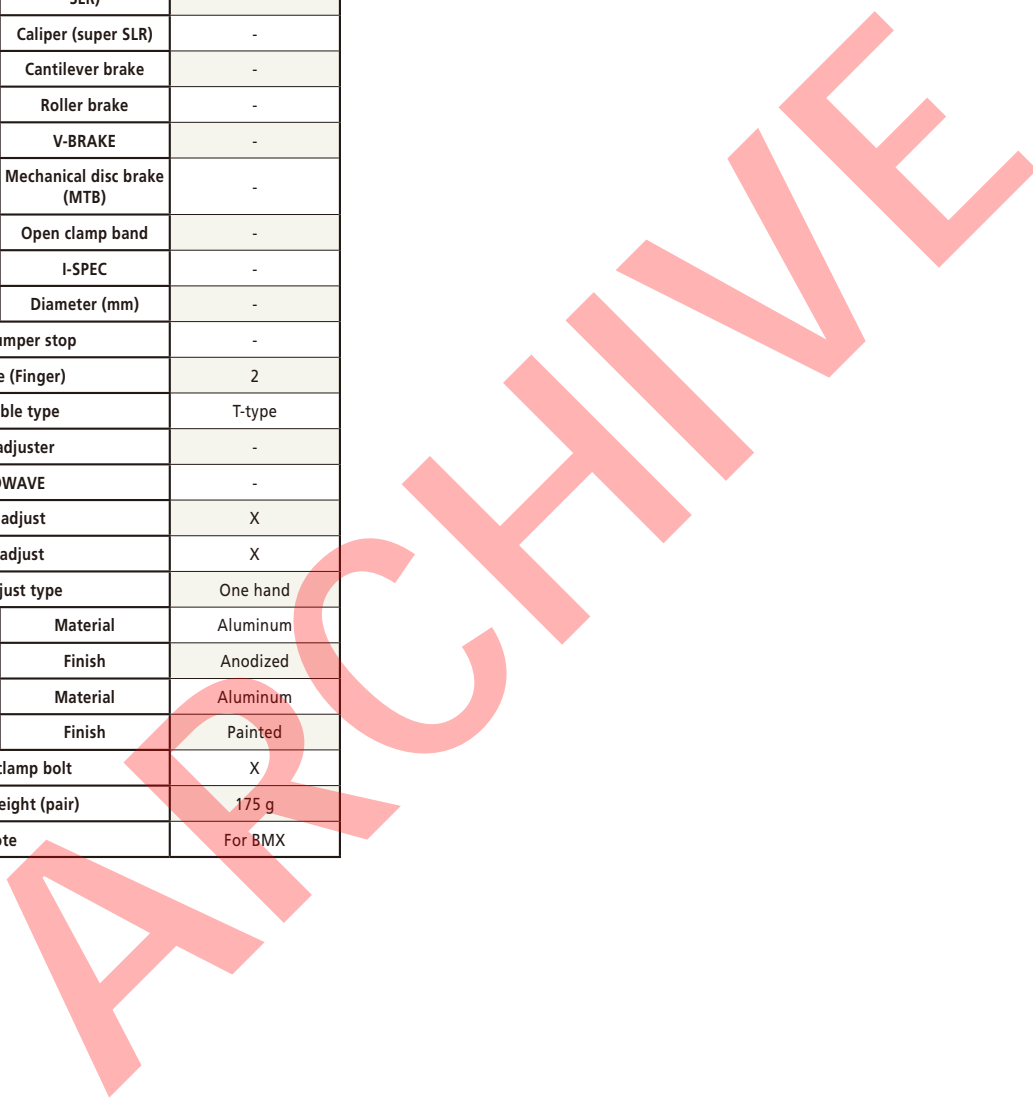
FH

WH

CI-DECK

Brake Lever

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



Shifting/Brake Lever (Hydraulic disc brake)

Series		ALIVIO	ALIVIO	ACERA	ACERA	SHIMANO	SHIMANO	
Model no.		ST-M4050-R	ST-M4050-L	ST-M3050-R	ST-M3050-L	ST-EF505-9R	ST-EF505-8R	
Color	1	Series color	Series color	Series color	Series color	Black	Black	
	2	-	-	-	-	-	-	
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
Shifting lever	Front speeds	-	3	-	3	-	-	
	Rear speeds	9	-	9	-	9	8	
	2 / 3 mode converter	-	-	-	-	-	-	
	Max. multiple shifts (Main lever / rear)	3	-	3	-	3	3	
	Compatible rear derailleur type	MTB 9-speed RD	-	MTB 9-speed RD	-	MTB 9-speed RD	MTB 8-speed RD	
	I-SPEC compatible	-	-	-	-	-	-	
	Shifting lever position adjust	-	-	-	-	-	-	
	Release function	MULTI RELEASE	-	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-	-
		2WAY-RELEASE	X	X	-	-	-	-
	Shifting lever cable adjust	X	X	X	X	X	X	
	OPTICAL GEAR DISPLAY	With	X	X	X	X	X	X
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction	-	-	-	-	-	-	
Shifting lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41		
Shifting lever cable	Material	Stainless steel	Stainless steel	Steel*	Steel*	Steel	Steel	
	Finish	Standard	Standard	Standard	Standard	OPTISLICK	OPTISLICK	
Brake lever	Lever size (Finger)	2	2	2	2	3	3	
	Brake hose (Kit)	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	
	Hose joint	Straight	Straight	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
	J-Kit spec (for OEM)	X	X	X	X	X	X	
	Recommended brake caliper	BR-MT400	BR-MT400	BR-MT400	BR-MT400	BR-MT200	BR-MT200	
	Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	
	Reach adjust	Toolless	-	-	-	-	-	-
		Tool	X	X	X	X	X	X
	Funnel bleeding	X	X	X	X	X	X	
	Free stroke adjust	-	-	-	-	-	-	
	SERVOWAVE	-	-	-	-	-	-	
Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum		
Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted		
Clamp band	Open clamp	-	-	-	-	-	-	
Shifter Lever body	Main	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	
	Release	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
		Finish	Painted	Painted	Painted	Painted	Painted	
	Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
		Finish	X	X	-	-	Zinc plated	Zinc plated
Stainless clamp bolt	X	X	X	X	-	-		
Average Weight	-	-	-	-	-	-		
Note			*Stainless steel option available	*Stainless steel option available				

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Shifting/Brake Lever (Hydraulic disc brake)

Series		SHIMANO	
Model no.		ST-EF505-L	
Color	1	Black	
	2	-	
Shifter type		EZ FIRE PLUS	
Shifting lever	Front speeds	3	
	Rear speeds	-	
	2 / 3 mode converter	-	
	Max. multiple shifts (Main lever / rear)	-	
	Compatible rear derailleur type	-	
	I-SPEC compatible	-	
	Shifting lever position adjust	-	
	Release function	MULTI RELEASE	-
		INSTANT RELEASE	-
		2WAY-RELEASE	-
	Shifting lever cable adjust		X
	OPTICAL GEAR DISPLAY	With	X
		With (removable)	-
		Without	-
	Multi-Bearing construction		-
Shifting lever outer casing		OT-SP41	
Shifting lever cable	Material	Steel	
	Finish	OPTISLICK	
Brake lever	Lever size (Finger)	3	
	Brake hose (Kit)	SM-BH59-JK-SS	
	Hose joint		Straight
	Brake hose color (kit)	1	Black
		2	-
	J-Kit spec (for OEM)		X
	Recommended brake caliper		BR-MT200
	Oil		SHIMANO Mineral
	Reach adjust	Toolless	-
		Tool	X
	Funnel bleeding		X
	Free stroke adjust		-
	SERVOWAVE		-
Material		Aluminum	
Finish		Painted	
Clamp band	Open clamp	-	
Shifter Lever body	Main	Steel & Resin	
	Release	Steel & Resin	
Master cylinder	Material	Aluminum	
	Finish	Painted	
Bracket	Bracket	Material	Aluminum
		Finish	Painted
	Clamp bolt	Material	Steel
		Finish	Zinc plated
Stainless clamp bolt		-	
Average Weight		-	
Note			

Shifting/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO			
Model no.		ST-EF65-9R2	ST-EF65-8R2	ST-M310-8R2	ST-M310-L2	ST-EF500-8R2A	ST-EF500-8R4A			
Color	1	Black	Black	Black	Black	Black	Black			
	2	Silver	Silver	Silver	Silver	-	-			
Shifting lever	Shifter type		EZ FIRE PLUS	EZ FIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS		
	Front speeds		-	-	-	3	-	-		
	Rear speeds		9	8	8	-	8	8		
	Compatible RD Type		MTB 9-speed RD	MTB 8-speed RD	MTB 8-speed RD	-	MTB 8-speed RD	MTB 8-speed RD		
	SL position adjust		-	-	-	-	-	-		
	SL cable adjust		X	X	X	X	-	-		
	2/3 mode converter		-	-	-	-	-	-		
	Max. multiple shifts (Main lever / rear)		3	3	3	-	3	3		
	Release function	MULTI RELEASE		-	-	-	-	-		
		INSTANT RELEASE		-	-	-	-	-		
		2WAY-RELEASE		-	-	-	-	-		
	OPTICAL GEAR DISPLAY	With		X	X	X	X	X		
		With (removable)		-	-	-	-	-		
		Without		-	-	-	-	-		
	Multi-Bearing construction		-	-	-	-	-	-		
	Main lever body	Material		Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel		
		Finish		-	-	-	-	-		
	Release lever body	Material		Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel		
		Finish		-	-	-	-	-		
	Shifting lever cable	Material		Steel	Steel	Steel	Steel	Steel		
Finish		Standard	Standard	Standard	Standard	Standard				
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41			
Brake lever	Compatible brake type	V-BRAKE		X	X	X	X	X	X with switch*	
		Mechanical disc brake (MTB)		X	X	X	X	X	X	X with switch*
		Mechanical disc brake (Road)		-	-	-	-	-	-	-
		Caliper (SLR-EV)		-	-	-	-	-	-	-
		Caliper (NEW SUPER SLR)		-	-	-	-	-	-	-
		Caliper (super SLR)		-	-	-	-	-	-	X with switch
		Cantilever brake		-	-	-	-	-	-	X with switch
	Roller brake		-	-	-	-	-	-	X with switch	
	Recommended POWER MODULATOR	V-BRAKE		-	-	-	-	-	-	SM-PM40
		Mechanical disc brake (MTB)		-	-	-	-	-	-	-
	Clamp band	Open clamp band		-	-	-	-	-	-	-
		Internal bumper stop		X	X	-	-	-	-	-
	Lever size (Finger)		2	2	2	2	2	2	4	
	Brake cable type		T-type	T-type	T-type	T-type	T-type	T-type	T-type	
	Power adjuster		-	-	-	-	-	-	-	
	SERVOWAVE		-	-	-	-	-	-	-	
	Reach adjust		X	X	X	X	X	X	X	
Cable adjust		X	X	X	X	X	X	X		
Cable adjust type		Two hand	Two hand	Two hand	Two hand	Two hand	Two hand	Two hand		
Brake lever	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum		
	Finish		Anodized	Anodized	Anodized	Anodized	Painted	Painted		
Bracket	Bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum		
		Finish		Painted	Painted	Painted	Painted	Painted		
	Clamp bolt	Material		Steel	Steel	Steel	Steel	Steel		
		Finish		Zinc plated	Zinc plated	Zinc plated	Zinc plated	Plated	Plated	
Average Weight		-	-	-	-	-	-			
Note							* POWER MODULATOR must be used for front brake			

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Shifting/Brake Lever

Series		TOURNEY TX	TOURNEY TX	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-TX800-8R	ST-TX800-L	ST-EF500-7R2A	ST-EF500-7R4A	ST-EF500-L2A	ST-EF500-L4A	
Color	1	Black	Black	Black	Black	Black	Black	
	2	Silver	Silver	-	-	-	-	
Shifting lever	Shifter type		EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
	Front speeds		-	3	-	-	3	3
	Rear speeds		8	-	7	7	-	-
	Compatible RD Type		MTB 8-speed RD	-	MTB 7-speed RD	MTB 7-speed RD	-	-
	SL position adjust		-	-	-	-	-	-
	SL cable adjust		-	X	-	-	X	X
	2/3 mode converter		-	-	-	-	-	-
	Max. multiple shifts (Main lever / rear)		3	-	3	3	-	-
	Release function	MULTI RELEASE	-	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-	-
		2WAY-RELEASE	-	-	-	-	-	-
	OPTICAL GEAR DISPLAY	With	X	X	X	X	X	X
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction		-	-	-	-	-	-
	Main lever body	Material	Resin	Resin	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
	Release lever body	Material	Resin	Resin	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
	Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
Finish		Standard	Standard	Standard	Standard	Standard	Standard	
Recommended shifting lever outer casing		OT-SIS40	OT-SIS40	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
Brake lever	Compatible brake type	V-BRAKE	X	X	X	X with switch*	X	X with switch*
		Mechanical disc brake (MTB)	X	X	X	X with switch*	X	X with switch*
		Mechanical disc brake (Road)	-	-	-	-	-	-
		Caliper (SLR-EV)	-	-	-	-	-	-
		Caliper (NEW SUPER SLR)	-	-	-	-	-	-
		Caliper (super SLR)	-	-	-	X with switch	-	X with switch
		Cantilever brake	-	-	-	X with switch	-	X with switch
		Roller brake	-	-	-	X with switch	-	X with switch
	Recommended POWER MODULATOR	V-BRAKE	-	-	-	SM-PM40	-	SM-PM40
		Mechanical disc brake (MTB)	-	-	-	SM-PM50	-	SM-PM50
	Clamp band	Open clamp band	-	-	-	-	-	-
	Internal bumper stop		-	-	-	-	-	-
	Lever size (Finger)		2	2	2	4	2	4
	Brake cable type		T-type	T-type	T-type	T-type	T-type	T-type
	Power adjuster		-	-	-	-	-	-
	SERVOWAVE		-	-	-	-	-	-
	Reach adjust		X	X	X	X	X	X
	Cable adjust		X	X	X	X	X	X
	Cable adjust type		Two hand	Two hand	Two hand	Two hand	Two hand	Two hand
	Brake lever	Material	Steel/Resin	Steel/Resin	Aluminum	Aluminum	Aluminum	Aluminum
Finish		-	-	Painted	Painted	Painted	Painted	
Bracket	Bracket	Material	Steel	Steel	Aluminum	Aluminum	Aluminum	
		Finish	Painted	Painted	Painted	Painted	Painted	
	Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Zinc plated	Zinc plated	Plated	Plated	Plated	
Average Weight		-	-	-	-	-	-	
Note					* POWER MODULATOR must be used for front brake		* POWER MODULATOR must be used for front brake	

Shifting/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO		
Model no.		ST-EF65-7R2	ST-EF65-L2	ST-EF41-7R	ST-EF41-6R	ST-EF41-L		
Color	1	Black	Black	Black	Black	Black		
	2	Silver	Silver	-	-	-		
Shifting lever	Shifter type		EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
	Front speeds		-	3	-	-	3	
	Rear speeds		7	-	7	6	-	
	Compatible RD Type		MTB 7-speed RD	-	MTB 7-speed RD	MTB 6-speed RD	-	
	SL position adjust		-	-	-	-	-	
	SL cable adjust		X	X	-	-	X	
	2/3 mode converter		-	-	-	-	-	
	Max. multiple shifts (Main lever / rear)		3	-	3	3	-	
	Release function	MULTI RELEASE		-	-	-	-	-
		INSTANT RELEASE		-	-	-	-	-
		2WAY-RELEASE		-	-	-	-	-
	OPTICAL GEAR DISPLAY	With		X	X	X	X	X
		With (removable)		-	-	-	-	-
		Without		-	-	-	-	-
	Multi-Bearing construction		-	-	-	-	-	
	Main lever body	Material		Resin & Steel	Resin & Steel	Resin	Resin	Resin
		Finish		-	-	-	-	-
	Release lever body	Material		Resin & Steel	Resin & Steel	Resin	Resin	Resin
		Finish		-	-	-	-	-
	Shifting lever cable	Material		Steel	Steel	Steel	Steel	Steel
Finish		Standard	Standard	Standard	Standard	Standard		
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SIS40	OT-SIS40	OT-SIS40		
Brake lever	Compatible brake type	V-BRAKE		X	X	X	X	X
		Mechanical disc brake (MTB)		X	X	X	X	X
		Mechanical disc brake (Road)		-	-	-	-	-
		Caliper (SLR-EV)		-	-	-	-	-
		Caliper (NEW SUPER SLR)		-	-	-	-	-
		Caliper (super SLR)		-	-	-	-	-
		Cantilever brake		-	-	-	-	-
		Roller brake		-	-	-	-	-
	Recommended POWER MODULATOR	V-BRAKE		-	-	-	-	-
		Mechanical disc brake (MTB)		-	-	-	-	-
	Clamp band		Open clamp band	-	-	-	-	-
	Internal bumper stop		X	X	-	-	-	
	Lever size (Finger)		2	2	2	2	2	
	Brake cable type		T-type	T-type	T-type	T-type	T-type	
	Power adjuster		-	-	-	-	-	
	SERVOWAVE		-	-	-	-	-	
	Reach adjust		X	X	X	X	X	
	Cable adjust		X	X	X	X	X	
	Cable adjust type		Two hand	Two hand	Two hand	Two hand	Two hand	
	Brake lever	Material		Aluminum	Aluminum	Steel/Resin	Steel/Resin	Steel/Resin
Finish		Anodized	Anodized	-	-	-		
Bracket	Bracket	Material		Aluminum	Aluminum	Steel	Steel	Steel
		Finish		Painted	Painted	Painted	Painted	Painted
	Clamp bolt	Material		Steel	Steel	Steel	Steel	Steel
		Finish		Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average Weight		-	-	-	-	-		
Note								

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Rear Derailleur

Series		XTR	XTR	XTR	XTR	XTR	DEORE XT
Model no.		RD-M9100-GS	RD-M9100-SGS	RD-M9120-SGS	RD-M9000-SGS	RD-M9000-GS	RD-M8000-SGS
Pulley cage		GS	SGS	SGS	SGS	GS	SGS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12	12	12 (Front double)	11	11	11
Compatible chain		CN-M9100	CN-M9100	CN-M9100	HG-X 11-speed	HG-X 11-speed	HG-X 11-speed
Top-Normal spring type	SHIMANO SHADOW RD	-	-	-	-	-	-
	SHIMANO SHADOW RD+	X	X	X	X	X	X
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (Conventional)	X	X	X	X	X	X
	Direct mount compatible	-	-	-	X*	X*	X*
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		0T	0T	10T	18T	10T	18T
Total capacity		35T	41T	41T	45T	37T	47T
Low sprocket	Max.	45T	51T	45T	40T(3x11-speed) 42T(2x11-speed) 46T(1x11-speed)	42T(2x11-speed) 46T(1x11-speed)	40T(3x11-speed) 42T(2x11-speed) 46T(1x11-speed)
	Min.	45T	45T	45T	40T	40T	40T
Top sprocket	Max.	10T	10T	10T	11T	11T	11T
	Min.	10T	10T	10T	11T	11T	11T
Fluoric coated link bushings		8	8	8	4	4	4
Pulley	G pulley bearing	Sealed 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
	Teeth	13T	13T	13T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	X	X	X	X	X	X
Bracket	Material	-	-	-	Aluminum	Aluminum	Aluminum
	Finish	-	-	-	Anodized	Anodized	Painted
B-Axle	Hollow axle	X	X	X	X	X	X
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Stainless steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
B-Axle 2	Hollow axle	-	-	-	-	-	X
	Material	-	-	-	Aluminum	Aluminum	Stainless steel
	Finish	-	-	-	Anodized	Anodized	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Plate body	Material	CFRP	CFRP	CFRP	CFRP	CFRP	GFRP
	Finish	Painted	Painted	Painted	Painted	Painted	-
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Outer plate	Material	CFRP	CFRP	CFRP	CFRP	CFRP	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Cable fixing Bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	-
Stroke Adjusting Screw	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Plated
Average Weight (pc)		237 g	240 g	241 g	224 g	221 g	275 g
Note		-	-	-	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available **For 3x11-speed, Max 40T for 2x11-speed, Max 42T for 1x11-speed, Max 46T

Rear Derailleur

Series		DEORE XT	SLX	XTR	XTR	SAINT	DEORE XT
Model no.		RD-M8000-GS	RD-M7000-11-GS	RD-M986-GS	RD-M986-SGS	RD-M820-SS	RD-M781-GS
Pulley cage		GS	GS	GS	SGS	SS	GS
Color	1	Series color	Series color	Series color	Series color	Series color	Silver
	2	-	-	-	-	-	Black
Rear speeds		11	11	10	10	10	10
Compatible chain		HG-X 11-speed	HG-X 11-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Top-Normal spring type	SHIMANO SHADOW RD	-	-	-	-	-	X
	SHIMANO SHADOW RD+	X	X	X	X	X	-
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (Conventional)	X	X	X	X	X	X
	Direct mount compatible	X*	X*	X*	X*	X*	X*
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Mode converter		-	-	-	-	X	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		10T	10T	18T	18T	Single	18T
Total capacity		39T	41T	35T	41T	25T	35T
Low sprocket	Max.	42T(2x11-speed) 46T(1x11-speed)	42T(2x11-speed) 46T(1x11-speed)	36T	36T	28/36T	36T
	Min.	40T	40T	32T	32T	23T	32T
Top sprocket	Max.	11T	11T	11T	11T	12T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		4	4	4	4	5	4
Pulley	G pulley bearing	Sealed Bearing	-	Sealed Bearing	Sealed Bearing	-	Sealed Bearing
	T pulley bearing	Sealed Bearing	-	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	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	X	X	X	X	X	X
Bracket	Material	Aluminum	Steel	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Painted	Painted
B-Axle	Hollow axle	X	X	X	X	X	X
	Material	Stainless steel	Stainless steel	Aluminum	Aluminum	Aluminum	Stainless steel
	Finish	-	-	Anodized	Anodized	Anodized	-
B-Axle 2	Hollow axle	X	X	X	X	X	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Painted	Painted
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Plate body	Material	GFRP	GFRP	CFRP	CFRP	Aluminum	Aluminum
	Finish	-	-	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Painted	Painted
Outer plate	Material	Aluminum	Steel	CFRP	CFRP	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Steel	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Painted	Painted
Cable fixing Bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	Black	Black	Black	-
Stroke Adjusting Screw	Material	Steel	Steel	Aluminum	Aluminum	Steel	Steel
	Finish	Plated	Plated	Anodized	Anodized	Plated	Plated
Average Weight (pc)		271 g	323 g	211 g	213 g	280 g (w/o mode converter)	234 g
Note		*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available

Rear Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	SLX	SLX	SLX
Model no.		RD-M781-SGS	RD-M786-GS	RD-M786-SGS	RD-M7000-10-SGS	RD-M670-GS	RD-M670-SGS
Pulley cage		SGS	GS	SGS	SGS	GS	SGS
Color	1	Silver	Silver	Silver	Series color	Series color	Series color
	2	Black	Black	Black	-	-	-
Rear speeds		10	10	10	10	10	10
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Top-Normal spring type	SHIMANO SHADOW RD	X	-	-	-	X	X
	SHIMANO SHADOW RD+	-	X	X	X	-	-
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (Conventional)	X	X	X	X	X	X
	Direct mount compatible	X*	X*	X*	X*	X*	X*
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		22T	18T	22T	22T	18T	22T
Total capacity		43T	35T	43T	43T	35T	43T
Low sprocket	Max.	36T	36T	36T	36T	36T	36T
	Min.	32T	32T	32T	32T	32T	32T
Top sprocket	Max.	11T	11T	11T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		4	4	4	2	3	3
Pulley	G pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	-	-	-
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	-	-	-
	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	X	X	X	X	X	X
Bracket	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
B-Axle	Hollow axle	X	X	X	X	X	X
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
B-Axle 2	Finish	-	-	-	-	-	-
	Hollow axle	-	-	-	X	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Bracket body	Finish	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Plate body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Steel	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	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing Bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average Weight (pc)		238 g	262 g	266 g	313 g	278 g	281 g
Note		*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available

Rear Derailleur

Series		ZEE	DEORE	DEORE	DEORE	DEORE	DEORE XT
Model no.		RD-M640-SS	RD-M6000-GS	RD-M6000-SGS	RD-M610-GS	RD-M610-SGS	RD-M772-GS
Pulley cage		SS	GS	SGS	GS	SGS	GS
Color	1	Series color	Series Black	Series Black	Black	Black	Series color
	2	-	-	-	Silver	Silver	-
Rear speeds		10	10	10	10	10	9
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed
Top-Normal spring type	SHIMANO SHADOW RD	-	-	-	X	X	X
	SHIMANO SHADOW RD+	X	X	X	-	-	-
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (Conventional)	X	X	X	X	X	X
	Direct mount compatible	X	X*	X*	X*	X*	-
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Mode converter		-*	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		Single	10T	22T	18T	22T	22T
Total capacity		25T	41T	43T	35T	43T	35T
Low sprocket	Max.	36T(Freeride spec) 28T(DH spec)	42T	36T	36T	36T	36T
	Min.	23T	42T	32T	32T	32T	32T
Top sprocket	Max.	12T	11T	11T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		3	4	3	3	3	4
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	Sealed Bearing
	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	X	X	X	X	X	X
Bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
B-Axle	Hollow axle	X	X	X	X	X	X
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
B-Axle 2	Hollow axle	-	X	X	X	X	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	Painted	-	-	-	-
Plate body	Material	Aluminum	GFRP	Aluminum	Aluminum	Aluminum	Aluminum
	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	Steel	Aluminum	Steel	Steel	Steel	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Aluminum	Steel	Steel	Steel	Steel	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Steel	Steel	Steel	Steel	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing Bolt	Material	Stainless steel	Steel	Steel	Steel	Steel	Stainless steel
	Finish	-	Plated	Plated	Plated	Plated	-
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average Weight (pc)		275 g	-	-	-	-	227 g
Note		*Freeride spec and DH spec available	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available	

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Rear Derailleur

Series		DEORE XT	DEORE	DEORE	ALIVIO	ACERA	ALTUS
Model no.		RD-M772-SGS	RD-M592-SGS	RD-M591-SGS	RD-M4000	RD-M3000	RD-M2000
Pulley cage		SGS	SGS	SGS	SGS	SGS	SGS
Color	1	Series color	Series color	Silver	Series color	Series color	Series color
	2	-	-	Black	-	-	-
Rear speeds		9	9	9	9	9	9
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Top-Normal spring type	SHIMANO SHADOW RD	X	X	-	X	X	X
	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	-	-	X	-	-	-
Mount	Direct attachment (Conventional)	X	X	X	X	X	X
	Direct mount compatible	-	-	-	X*	X*	-
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	X	X	X
Max. front difference		22T	22T	22T	22T	22T	22T
Total capacity		45T	45T	45T	45T	45T	45T
Low sprocket	Max.	36T	36T	34T	36T	36T	36T
	Min.	32T	32T	28T	32T	32T	32T
Top sprocket	Max.	11T	12T	12T	12T	12T	12T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		4	3	3	2	1	-
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	Sealed Bearing	-	-	-	-	-
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
	Sunken type pulley bolt	X	X	X	X	X	X
Bracket	Material	Steel	Steel	-	Steel	Steel	Steel
	Finish	Painted	Painted	-	Painted	Painted	Painted
B-Axle	Hollow axle	X	X	-	X	X	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
B-Axle 2	Finish	-	-	-	-	-	-
	Hollow axle	-	-	-	X	-	-
	Material	Stainless steel	Stainless steel	-	Stainless steel	Stainless steel	Stainless steel
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	Painted	Painted	Zinc plated
Plate body	Material	Aluminum	Aluminum	Aluminum	PA-GF	PA-GF	PA-GF
	Finish	Painted	Painted	Painted	Painted	Painted	-
Outer link	Material	Aluminum	Aluminum	Aluminum	CFRP	PA-GF	PA-GF
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Zinc plated
Outer plate	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing Bolt	Material	Stainless steel	Steel	Steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	Plated	Plated	-	-	-
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Stainless steel	Steel	Steel
	Finish	Plated	Plated	Plated	-	Zinc plated	Zinc plated
Average Weight (pc)		229 g	-	-	-	-	-
Note					* w/o bracket spec available	* w/o bracket spec available	

Rear Derailleur

Series		ALTUS	ACERA	ALTUS	TOURNEY TX	TOURNEY	TOURNEY
Model no.		RD-M370-SGS	RD-M360-SGS	RD-M310-Smart	RD-TX800	RD-TY500-SGS	RD-TY300-SGS
Pulley cage		SGS	SGS	Smart	SGS	SGS	SGS
Color	1	Black	Black	Black	Black	Series color	Series color
	2	Silver	Silver	Silver	Silver	-	-
Rear speeds		9	8/7	8/7	8/7	7/6	7/6
Compatible chain		HG 9-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG-UG 7/6-speed	HG-UG 7/6-speed
Top-Normal spring type	SHIMANO SHADOW RD	-	-	-	-	-	-
	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	X	X	X	X	X	X
Mount	Direct attachment (Conventional)	X	X	X	X	X	X
	Direct mount compatible	-	-	-	-	-	-
	Riveted adapter (Road type)	-	-	-	-	X	X
	Riveted adapter (BMX-Track type)	-	-	-	-	X	X
Mode converter		-	-	-	-	-	-
Cable adjuster		X	X	X	X	X	X
Max. front difference		22T	20T	20T	20T	20T	20T
Total capacity		45T	43T	43T	43T	43T	43T
Low sprocket	Max.	34T	34T	34T	34T	34T	34T
	Min.	28T	28T	28T	28T	28T	28T
Top sprocket	Max.	11T	14T	14T	14T	14T	14T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		-	1	-	-	-	-
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	11/11T	13/13T	13/15T	13/13T	13/13T	13/13T
	Bolts material	Steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley bolt	X (Guide pulley) - (Tension pulley)	-	-	-	-	-
Bracket	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
B-Axle	Hollow axle	-	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
B-Axle 2	Material	-	-	-	-	-	-
	Finish	-	-	-	-	Zinc plated	Zinc plated
Bracket body	Material	Aluminum	Aluminum	Aluminum	Resin	Resin	Resin
	Finish	Painted	Painted	Painted	Painted	-	-
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Plate body	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	Painted	- (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	Steel	Resin	Steel
	Finish	Painted	Zinc plated	Zinc plated	Zinc plated	-	Zinc plated
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Zinc plated	Zinc plated	Zinc plated	Painted	Painted
Cable fixing Bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average Weight (pc)		-	-	-	-	-	-
Note						w/ wheel type cable guide	

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Rear Derailleur

Series		TOURNEY TZ	TOURNEY	TOURNEY
Model no.		RD-TZ500-GS	RD-TY21-B-SS	RD-TY21-B-GS
Pulley cage		GS	SS	GS
Color	1	Series color	Black	Black
	2	-	Silver	Silver
Rear speeds		6	6	6
Compatible chain		HG-UG 6-speed	HG-UG 6-speed	HG-UG 6-speed
Top-Normal spring type	SHIMANO SHADOW RD	-	-	-
	SHIMANO SHADOW RD+	-	-	-
	Double servo	-	-	-
Mount	Direct attachment (Conventional)	X	X	X
	Direct mount compatible	-	-	-
	Riveted adapter (Road type)	X	X	X
	Riveted adapter (BMX-Track type)	-	-	-
Mode converter		-	-	-
Cable adjuster		X	X	X
Max. front difference		20T	13T	20T
Total capacity		34T	28T	34T
Low sprocket	Max.	28T	28T	28T
	Min.	28T	28T	28T
Top sprocket	Max.	14T	14T	14T
	Min.	14T	14T	14T
Fluoric coated link bushings		-	-	-
Pulley	G pulley bearing	-	-	-
	T pulley bearing	-	-	-
	Teeth	11/11T	11/11T	11/11T
	Bolts material	Steel	Steel	Steel
	Sunken type pulley bolt	-	-	-
Bracket	Material	-	-	-
	Finish	-	-	-
B-Axle	Hollow axle	-	-	-
	Material	Steel	Steel	Steel
	Finish	Black	Black	Black
B-Axle 2	Hollow axle	-	-	-
	Material	-	-	-
	Finish	-	-	-
Bracket body	Material	Steel	Resin	Resin
	Finish	Painted	-	-
P-Axle	Material	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated
Plate body	Material	Resin	Resin	Resin
	Finish	-	-	-
Outer link	Material	Steel	Steel	Steel
	Finish	Painted	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
Inner link	Material	Steel	Steel	Steel
	Finish	Zinc plated	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
Outer plate	Material	Steel	Steel	Steel
	Finish	Painted	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
Inner plate	Material	Steel	Steel	Steel
	Finish	Painted	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
Cable fixing Bolt	Material	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated
Stroke Adjusting Screw	Material	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated
Average Weight (pc)		-	-	-
Note				

Front Derailleur

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		FD-M9100-D	FD-M9100-E	FD-M9100-M	FD-M9000-D	FD-M9000-E	FD-M9000-H
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Speeds	Front	2	2	2	3	3	3
	Rear	12	12	12	11	11	11
Compatible chain		CN-M9100	CN-M9100	CN-M9100	HG-X11	HG-X11	HG-X11
Action	TOP SWING	-	-	-	-	-	-
	Down Swing	-	-	-	-	-	-
	SIDE SWING	X	X	X	X	X	X
Mount	Clamp Band	28.6mm	-	-	X (w/ S size adapter)	-	X (w/ S size adapter)
		31.8mm	-	-	X (w/ M size adapter)	-	X (w/ M size adapter)
		34.9mm	-	-	X	-	X
	E-type	With BB Plate	-	-	-	-	-
		Without BB Plate	-	X	-	-	X
	Direct Mount	X	-	-	X	-	-
Cable route type	Dual-Pull	-	-	-	-	-	-
	Top-Pull exclusive	-	-	-	-	-	-
	Down-Pull exclusive	-	-	-	-	-	-
	Front-Pull	X	X	X	X	X	X
Chainline (mm)		48.8mm (142mm OLD)/ 51.8mm (148mm OLD)	48.8mm (142mm OLD)/ 51.8mm (148mm OLD)	48.8mm (142mm OLD)/ 51.8mm (148mm OLD)	50	50	50
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth		38T	38T	38T	40T	40T	40T
Total capacity		12T	12T	12T	18T	18T	18T
Applicable Top-Mid tooth difference		-	-	-	10T	10T	10T
Multi access cable fixing bolt		-	-	-	-	-	-
Angled stroke adjust bolt		X	X	X	X	X	X
Angled clamp band design		-	-	-	-	-	X
Link bushings		4	4	4	6	6	6
Front clamp band	Material	-	-	Aluminum	-	-	Aluminum
	Finish	-	-	Painted	-	-	Painted
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	-	Stainless steel	-	-	Stainless steel
	Finish	-	-	-	-	-	-
BB plate	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Plated	Plated	Plated	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)		-	-	-	117.0 g	102 g	130.0 g
Note		-	-	Chainline 48.8, 51.8 mm compatible	-	-	-

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- C-DECK

Front Derailleur

Series		XTR	XTR	XTR	XTR	XTR	XTR	
Model no.		FD-M9000-L	FD-M9020-D	FD-M9020-E	FD-M9020-H	FD-M9020-L	FD-M9025-D	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	2	2	2	2	2	
	Rear	11	11	11	11	11	11	
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	
Action	TOP SWING	-	-	-	-	-	-	
	Down Swing	-	-	-	-	-	X	
	SIDE SWING	X	X	X	X	X	-	
Mount	Clamp Band	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)	
		34.9mm	X	-	-	X	X	
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	X	-	-	-
	Direct Mount	-	X	-	-	-	X	
Cable route type	Dual-Pull	-	-	-	-	-	X	
	Top-Pull exclusive	-	-	-	-	-	X	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	X	X	X	X	X	-	
Chainline (mm)		50	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		40T	34-38T	34-38T	34-38T	34-38T	34-38T	
Total capacity		18T	10T	10T	10T	10T	10T	
Applicable Top-Mid tooth difference		10T	-	-	-	-	-	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	-	-	X	X	-	
Link bushings		6	6	6	6	6	8	
Front clamp band	Material	Aluminum	-	-	Aluminum	Aluminum	-	
	Finish	Painted	-	-	Painted	Painted	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	-	-	Stainless steel	Stainless steel	-	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Anodized	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel	
	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	Stainless steel	
	Finish	Black	Black	Black	Black	Black	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		112.0 g	116 g	102 g	129 g	111 g	141.3 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.	

Front Derailleur

Series		XTR	XTR	XTR	DEORE XT	DEORE XT	DEORE XT	
Model no.		FD-M9025-E	FD-M9025-H	FD-M9025-L	FD-M8000-D	FD-M8000-E	FD-M8000-H	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	3	3	3	
	Rear	11	11	11	11	11	11	
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	
Action	TOP SWING	X	-	X	-	-	-	
	Down Swing	-	X	-	-	-	-	
	SIDE SWING	-	-	-	X	X	X	
Mount	Clamp Band	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)
		34.9mm	-	X	X	-	-	X
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	X	-	-	-	X	-
	Direct Mount	-	-	-	X	-	-	-
Cable route type	Dual-Pull	-	X	-	-	-	-	
	Top-Pull exclusive	-	X	-	-	-	-	
	Down-Pull exclusive	X	-	X	-	-	-	
	Front-Pull	-	-	-	X	X	X	
Chainline (mm)		48.8*	48.8	48.8	50	50	50	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		34-38T	34-38T	34-38T	40T	40T	40T	
Total capacity		10T	10T	10T	18T	18T	18T	
Applicable Top-Mid tooth difference		-	-	-	10T	10T	10T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		-	X	X	-	-	X	
Link bushings		2	8	2	6	6	6	
Front clamp band	Material	-	Aluminum	Aluminum	-	-	Aluminum	
	Finish	-	Painted	Painted	-	-	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	-	Stainless steel	Stainless steel	-	-	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Aluminum	Steel	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Anodized	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel Plating	Nickel Plating	Nickel Plating	Plated	Plated	Plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel	
	Finish	-	-	-	Black	Black	Black	
Average weight (pc) (Band type: L size, direct type w/ bolt)		124 g	147.2 g	132.9 g	136 g	121 g	151 g	
Note		* Compatible with the special crankset which chainline is 3 mm outboard.						

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		FD-M8000-L	FD-M8020-D	FD-M8020-E	FD-M8020-H	FD-M8020-L	FD-M8025-H	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	2	2	2	2	2	
	Rear	11	11	11	11	11	11	
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	
Action	TOP SWING	-	-	-	-	-	-	
	Down Swing	-	-	-	-	-	X	
	SIDE SWING	X	X	X	X	X	-	
Mount	Clamp Band	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)	
		34.9mm	X	-	-	X	X	
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	X	-	-	-
	Direct Mount	-	X	-	-	-	-	
Cable route type	Dual-Pull	-	-	-	-	-	X	
	Top-Pull exclusive	-	-	-	-	-	X	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	X	X	X	X	X	-	
Chainline (mm)		50	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		40T	34-38T	34-38T	34-38T	34-38T	34-38T	
Total capacity		18T	10T	10T	10T	10T	10T	
Applicable Top-Mid tooth difference		10T	-	-	-	-	-	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	-	-	X	X	X	
Link bushings		6	6	6	6	6	8	
Front clamp band	Material	Aluminum	-	-	Aluminum	Aluminum	Aluminum	
	Finish	Painted	-	-	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	-	-	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	Black	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Plated	Plated	Plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	Black	
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Stainless steel	
	Finish	Black	Black	Black	Black	Black	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		135 g	134 g	120 g	145 g	129 g	149 g	
Note			* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.				

Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	SLX	SLX	SLX	
Model no.		FD-M8025-L	FD-M8025-D	FD-M8025-E	FD-M7020-11-D	FD-M7020-11-E	FD-M7020-11-H	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	2	2	2	
	Rear	11	11	11	11	11	11	
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	
Action	TOP SWING	X	-	X	-	-	-	
	Down Swing	-	X	-	-	-	-	
	SIDE SWING	-	-	-	X	X	X	
Mount	Clamp Band	28.6mm	X (w/ S size adapter)	-	-	-	-*	
		31.8mm	X (w/ M size adapter)	-	-	-	X (w/ M size adapter)	
		34.9mm	X	-	-	-	-	X
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	X	-	X	-
	Direct Mount	-	X	-	X	-	-	
Cable route type	Dual-Pull	-	X	-	-	-	-	
	Top-Pull exclusive	-	X	-	-	-	-	
	Down-Pull exclusive	X	-	X	-	-	-	
	Front-Pull	-	-	-	X	X	X	
Chainline (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 stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	-	-	-	-	X	
Link bushings		2	8	2	4	4	4	
Front clamp band	Material	Aluminum	-	-	-	-	Aluminum	
	Finish	Painted	-	-	-	-	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	-	-	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Aluminum	Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	
	Finish	Painted	Painted	Painted	-	-	-	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Plated	Plated	Plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	-	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		131 g	139 g	124 g	136 g	122 g	147 g	
Note			* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.			* S-size adapter is available in OTC package only.	

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Front Derailleur

Series		SLX	SLX	SLX	SLX	SLX	DEORE XT	
Model no.		FD-M7020-11-L	FD-M7025-11-D	FD-M7025-11-E	FD-M7025-11-H	FD-M7025-11-L	FD-M785	
Color	1	Series color	Series color	Series color	Series color	Series color	Black	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	2	2	2	
	Rear	11	11	11	11	11	10	
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X 10-speed	
Action	TOP SWING	-	-	X	-	X	X	
	Down Swing	-	X	-	X	-	-	
	SIDE SWING	X	-	-	-	-	-	
Mount	Clamp Band	28.6mm	.*	-	.*	.*	X (w/ S size adapter)	
		31.8mm	X (w/ M size adapter)	-	-	X (w/ M size adapter)	X (w/ M size adapter)	
		34.9mm	X	-	-	X	X	
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	X	-	-	-
	Direct Mount	-	X	-	-	-	-	
Cable route type	Dual-Pull	-	X	-	X	-	X	
	Top-Pull exclusive	-	-	-	-	-	-	
	Down-Pull exclusive	-	-	X	-	X	-	
	Front-Pull	X	-	-	-	-	-	
Chainline (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	38-44T	
Total capacity		10T	10T	10T	10T	10T	14T	
Applicable Top-Mid tooth difference		-	-	-	-	-	-	
Multi access cable fixing bolt		-	-	-	-	-	X	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	-	-	X	X	X	
Link bushings		4	6	6	6	6	2	
Front clamp band	Material	Aluminum	-	-	Aluminum	Aluminum	Aluminum	
	Finish	Painted	-	-	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	-	-	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	GFRP+Steel	Aluminum	Aluminum	Aluminum	Aluminum	Steel	
	Finish	-	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Plated	Plated	Chrome plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		132 g	140 g	123 g	152 g	133 g	136 g	
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.	* Outer casing stopper integrated design.	

Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	SLX	SLX	SLX	
Model no.		FD-M785-E2	FD-M786	FD-M786-D	FD-M7000-10-D	FD-M7000-10-E	FD-M7000-10-H	
Color	1	Black	Black	Black	Series color	Series color	Series color	
	2	-	Silver	Silver	-	-	-	
Speeds	Front	2	2	2	3	3	3	
	Rear	10	10	10	10	10	10	
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X	HG-X	HG-X	
Action	TOP SWING	X	-	-	-	-	-	
	Down Swing	-	X	X	-	-	-	
	SIDE SWING	-	-	-	X	X	X	
Mount	Clamp Band	28.6mm	-	X (w/ S size adapter)	-	-	-*	
		31.8mm	-	X (w/ M size adapter)	-	-	X (w/ M size adapter)	
		34.9mm	-	X	-	-	-	X
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	X	-	-	-	X	-
	Direct Mount	-	-	X	X	-	-	-
Cable route type	Dual-Pull	X	X	X	-	-	-	
	Top-Pull exclusive	-	X	X	-	-	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	X	X	X	
Chainline (mm)		48.8	48.8	48.8	50	50	50	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		38-44T	38-44T	38-44T	40-42T	40-42T	40-42T	
Total capacity		14T	14T	14T	18T	18T	18T	
Applicable Top-Mid tooth difference		-	-	-	10T	10T	10T	
Multi access cable fixing bolt		X	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		-	X	-	-	-	X	
Link bushings		2	8	8	4	4	4	
Front clamp band	Material	-	Aluminum	-	-	-	Aluminum	
	Finish	-	Painted	-	-	-	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	-	Stainless steel	-	-	-	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Aluminum	Aluminum	GFRP+Steel	GFRP+Steel	GFRP+Steel	
	Finish	Painted	Painted	Painted	-	-	-	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Plated	Plated	Plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel	
	Finish	-	-	-	Black	Black	Black	
Average weight (pc) (Band type: L size, direct type w/ bolt)		127 g	155 g	146 g	140.5 g	126.5 g	152.1 g	
Note							* S-size adapter is available in OTC package only.	

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Front Derailleur

Series		SLX	SLX	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		FD-M7000-10-L	FD-M7005-10-L	FD-M770	FD-M770-E	FD-M771	FD-M771-D	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	3	
	Rear	10	10	9	9	9	9	
Compatible chain		HG-X	HG-X	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	
Action	TOP SWING	-	X	X	X	-	-	
	Down Swing	-	-	-	-	X	X	
	SIDE SWING	X	-	-	-	-	-	
Mount	Clamp Band	28.6mm	-*	-*	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)	
		34.9mm	X	X	X	-	X	
	E-type	With BB Plate	-	-	-	X	-	-
		Without BB Plate	-	-	-	X	-	-
	Direct Mount	-	-	-	-	-	-	X
Cable route type	Dual-Pull	-	X	X	X	X	X	
	Top-Pull exclusive	-	-	-	-	-	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	X	-	-	-	-	-	
Chainline (mm)		50	50	50	50	50	50	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		40-42T	42-40T	44/48T	44T	44T	44T	
Total capacity		18T	18T	22T	22T	22T	22T	
Applicable Top-Mid tooth difference		10T	-	12T	12T	12T	12T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	X	X	-	X	-	
Link bushings		4	6	2	2	8	8	
Front clamp band	Material	Aluminum	Aluminum	Aluminum	-	Aluminum	-	
	Finish	Painted	Painted	Painted	-	Painted	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	-	
	Finish	Painted	Painted	Painted	Painted	Painted	-	
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	-	Stainless steel	-	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	Aluminum	-	-	
	Finish	-	-	-	Painted	-	-	
Outer link	Material	GFRP+Steel	Aluminum	Steel	Steel	Aluminum	Aluminum	
	Finish	-	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	-	-	-	-	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		136.5 g	155 g	152 g	166 g	155 g	147 g	
Note		* S-size adapter is available in OTC package only.	* S-size adapter is available in OTC package only.	* Outer casing stopper integrated design.				

Front Derailleur

Series		DEORE XT	DEORE XT	SLX	SLX	SLX	SLX	
Model no.		FD-M772A	FD-M773	FD-M660	FD-M660-E	FD-M661	FD-M661-D	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	3	
	Rear	9	9	9	9	9	9	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	
Action	TOP SWING	X	-	X	X	-	-	
	Down Swing	-	X	-	-	X	X	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp Band	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)	
		34.9mm	X	X	X	-	X	
	E-type	With BB Plate	-	-	-	X	-	-
		Without BB Plate	-	-	-	-	-	-
	Direct Mount	-	-	-	-	-	-	X
Cable route type	Dual-Pull	X (w/ M size adapter)	X (w/ M size adapter)	X	X	X	X	
	Top-Pull exclusive	X	X	-	-	-	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	-	-	-	
Chainline (mm)		50	50	50	50	50	50	
Chain stay angle		63-66	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		44/48T	44/48T	44T	44T	44T	44T	
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		-	-	X	X	X	X	
Angled clamp band design		X	X	X	-	X	-	
Link bushings		2	7	2	2	8	8	
Front clamp band	Material	Aluminum	Aluminum	Aluminum	-	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	-	Painted	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	-	Stainless steel	-	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	Aluminum	-	-	
	Finish	-	-	-	Painted	-	-	
Outer link	Material	Steel	Aluminum	Steel	Steel	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		160 g	174 g	155 g	170 g	158 g	150 g	
Note				* Outer casing stopper integrated design.				

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
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- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Front Derailleur

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE	
Model no.		FD-M6000-H	FD-M6000-M	FD-M6000-L	FD-M6000-D	FD-M6000-E	FD-M6020-H	
Color	1	Series Black	Series Black	Series Black	Series Black	Series Black	Series Black	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	2	
	Rear	10	10	10	10	10	10	
Compatible chain		HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	
Action	TOP SWING	-	-	-	-	-	-	
	Down Swing	-	-	-	-	-	-	
	SIDE SWING	X	X	X	X	X	X	
Mount	Clamp Band	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)
		34.9mm	X	X	X	-	-	X
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	-	-	X	-
Direct Mount	-	-	-	X	-	-	-	
Cable route type	Dual-Pull	-	-	-	-	-	-	
	Top-Pull exclusive	-	-	-	-	-	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	X	X	X	X	X	X	
Chainline (mm)		50	50	50	50	50	48.8	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		40-42T	40-42T	40-42T	40-42T	40-42T	34-38T	
Total capacity		18T	18T	18T	18T	18T	10T	
Applicable Top-Mid tooth difference		10T	10T	10T	10T	10T	-	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	X	X	-	-	X	
Link bushings		4	4	4	4	4	4	
Front clamp band	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum	
	Finish	Painted	Painted	Painted	-	-	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	-	-	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	
	Finish	-	-	-	-	-	-	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Plated	Plated	Plated	
Cable fixing 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)		-	-	-	-	-	-	
Note								

Front Derailleur

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE	
Model no.		FD-M6020-M	FD-M6020-L	FD-M6020-D	FD-M6020-E	FD-M6025-H	FD-M6025-L	
Color	1	Series Black	Series Black	Series Black	Series Black	Series Black	Series Black	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	2	2	2	
	Rear	10	10	10	10	10	10	
Compatible chain		HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	
Action	TOP SWING	-	-	-	-	-	X	
	Down Swing	-	-	-	-	X	-	
	SIDE SWING	X	X	X	X	-	-	
Mount	Clamp Band	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)	
		34.9mm	X	X	-	-	X	X
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	-	X	-	-
	Direct Mount	-	-	X	-	-	-	
Cable route type	Dual-Pull	-	-	-	-	X	-	
	Top-Pull exclusive	-	-	-	-	-	-	
	Down-Pull exclusive	-	-	-	-	-	X	
	Front-Pull	X	X	X	X	-	-	
Chainline (mm)		48.8	48.8	48.8/51.8*	48.8/51.8*	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 stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	X	-	-	X	X	
Link bushings		4	4	4	4	8	2	
Front clamp band	Material	Aluminum	Aluminum	-	-	Aluminum	Aluminum	
	Finish	Painted	Painted	-	-	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	Stainless steel	-	-	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	Aluminum	Steel	
	Finish	-	-	-	-	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Plated	Plated	Plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	Black	-	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note				* Compatible with the special crankset which chainline is 3 mm outward.	* Compatible with the special crankset which chainline is 3 mm outward.			

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Front Derailleur

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE	
Model no.		FD-M6025-D	FD-M6025-E	FD-M617-H	FD-M617-L	FD-M617-D	FD-M617-E	
Color	1	Series Black	Series Black	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	2	2	2	
	Rear	10	10	10	10	10	10	
Compatible chain		HG-X 10speed	HG-X 10speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	
Action	TOP SWING	-	X	-	-	-	-	
	Down Swing	X	-	-	-	-	-	
	SIDE SWING	-	-	X	X	X	X	
Mount	Clamp Band	28.6mm	-	-	X (w/ S size adapter)	X (w/ S size adapter)	-	
		31.8mm	-	-	X (w/ M size adapter)	X (w/ M size adapter)	-	
		34.9mm	-	-	X	X	-	
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	X	-	-	-	X
Direct Mount	X	-	-	-	X	-		
Cable route type	Dual-Pull	X	-	-	-	-	-	
	Top-Pull exclusive	-	-	-	-	-	-	
	Down-Pull exclusive	-	X	-	-	-	-	
	Front-Pull	-	-	X	X	X	X	
Chainline (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 stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		-	-	X	X	-	-	
Link bushings		8	2	4	4	4	4	
Front clamp band	Material	-	-	Aluminum	Aluminum	-	-	
	Finish	-	-	Painted	Painted	-	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-	-	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	
	Finish	Painted	Painted	-	-	-	-	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel	
	Finish	-	-	Black	Black	Black	Black	
Average weight (pc) (Band type: L size, 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.			* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.	

Front Derailleur

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE	
Model no.		FD-M618-H	FD-M618-L	FD-M618-D	FD-M618-E	FD-M610-B	FD-M610-E	
Color	1	Black	Black	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	2	3	3	
	Rear	10	10	10	10	10	10	
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	
Action	TOP SWING	-	X	-	X	X	X	
	Down Swing	X	-	X	-	-	-	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp Band	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)	-	
		34.9mm	X	X	-	-	X	-
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	-	X	-	X
	Direct Mount	-	-	X	-	-	-	
Cable route type	Dual-Pull	X	-	X	-	X	X	
	Top-Pull exclusive	X	-	X	-	-	-	
	Down-Pull exclusive	-	X	-	X	-	-	
	Front-Pull	-	-	-	-	-	-	
Chainline (mm)		48.8	48.8	48.8*	48.8*	50	50	
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 capacity		14T	14T	14T	14T	18T	18T	
Applicable Top-Mid tooth difference		-	-	-	-	10T	10T	
Multi access cable fixing bolt		-	-	-	-	X	X	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	X	-	-	X	-	
Link bushings		8	2	8	2	2	2	
Front clamp band	Material	Aluminum	Aluminum	-	-	Aluminum	-	
	Finish	Painted	Painted	-	-	Painted	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Steel	Aluminum	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note				* Compatible with the special crankset which chainline is 3 mm outward.	* Compatible with the special crankset which chainline is 3 mm outward.			

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Front Derailleur

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE	
Model no.		FD-M611-B	FD-M611-D	FD-M615-B	FD-M615-E2	FD-M616-B	FD-M616-D	
Color	1	Black	Black	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	2	2	2	2	
	Rear	10	10	10	10	10	10	
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	
Action	TOP SWING	-	-	X	X	-	-	
	Down Swing	X	X	-	-	X	X	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp Band	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)	
		34.9mm	X	-	X	-	X	
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	-	X	-	-
	Direct Mount	-	X	-	-	-	X	
Cable route type	Dual-Pull	X	X	X	X	X	X	
	Top-Pull exclusive	X	X	-	-	X	X	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	-	-	-	
Chainline (mm)		50	50	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		40-42T	40-42T	38-44T	38-40T	38-44T	38-44T	
Total capacity		18T	18T	14T	14T	14T	14T	
Applicable Top-Mid tooth difference		10T	10T	-	-	-	-	
Multi access cable fixing bolt		-	-	X	X	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	-	X	-	X	-	
Link bushings		8	8	2	2	8	8	
Front clamp band	Material	Aluminum	-	Aluminum	-	Aluminum	-	
	Finish	Painted	-	Painted	-	Painted	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	-	Stainless steel	-	Stainless steel	-	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note								

Front Derailleur

Series		ALIVIO	ALIVIO	ALIVIO	ALIVIO	ALIVIO	ALIVIO	
Model no.		FD-M4020-M	FD-M4020-M-B	FD-M4020-D	FD-M4020-E	FD-M4000-M	FD-M4000-TS6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	2	3	3	
	Rear	9	9	9	9	9	9	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	
Action	TOP SWING	-	-	-	-	-	X	
	Down Swing	-	-	-	-	-	-	
	SIDE SWING	X	X	X	X	X	-	
Mount	Clamp Band	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)	
		34.9mm	X	X	-	-	X	X
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	-	X	-	-
	Direct Mount	-	-	X	-	-	-	
Cable route type	Dual-Pull	-	-	-	-	-	X	
	Top-Pull exclusive	-	-	-	-	-	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	X	X	X	X	X	-	
Chainline (mm)		48.8	51.8*	48.8/51.8*	48.8/51.8*	50	50	
Chain stay angle		64-69	64-69	64-69	64-69	66-69	66-69	
Top gear teeth		36T	36T	36T	36T	40T	40T	
Total capacity		14T	14T	14T	14T	18T	18T	
Applicable Top-Mid tooth difference		-	-	-	-	-	10T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		-	-	-	-	-	X	
Link bushings		4	4	4	4	4	-	
Front clamp band	Material	Steel	Steel	-	-	Steel	Steel	
	Finish	Painted	Painted	-	-	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	Stainless steel	-	-	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note		-	-	* Compatible with the special crankset which chainline is 3 mm outward.	* Compatible with the special crankset which chainline is 3 mm outward.	-	-	

- SL
- SLMT
- SMS
- BL
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- ST
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- RD
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- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Front Derailleur

Series		ALIVIO	ALIVIO	ALIVIO	ACERA	ALTUS	ALTUS
Model no.		FD-M4000-DS3	FD-M4000-DS6	FD-M410-E	FD-M3000-TS6	FD-M2000-TS3	FD-M2000-TS6
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Speeds	Front	3	3	3	3	3	3
	Rear	9	9	8/7	9	9	9
Compatible chain		HG 9-speed	HG 9-speed	HG 8/7-speed	HG 9-speed	HG 9-speed	HG 9-speed
Action	TOP SWING	-	-	X	X	X	X
	Down Swing	X	X	-	-	-	-
	SIDE SWING	-	-	-	-	-	-
Mount	Clamp Band	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)
		34.9mm	X	X	-	X	X
	E-type	With BB Plate	-	-	X	-	-
		Without BB Plate	-	-	-	-	-
Direct Mount	-	-	-	-	-	-	
Cable route type	Dual-Pull	X	X	X	X	X	X
	Top-Pull exclusive	-	-	-	-	-	-
	Down-Pull exclusive	-	-	-	-	-	-
	Front-Pull	-	-	-	-	-	-
Chainline (mm)		50	50	50	50	50	50
Chain stay angle		63-66	66-69	63-69 *	66-69	63-66	66-69
Top gear teeth		40T	40T	42T	40T	40T	40T
Total capacity		18T	18T	20T	18T	18T	18T
Applicable Top-Mid tooth difference		10T	10T	10T	10T	10T	10T
Multi access cable fixing bolt		-	-	-	-	-	-
Angled stroke adjust bolt		X	X	-	X	X	X
Angled clamp band design		X	X	-	X	X	X
Link bushings		2	2	-	-	-	-
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	Stainless steel	-	Stainless steel	Steel	Steel
	Finish	-	-	-	-	Nickel Plated	Nickel Plated
BB plate	Material	-	-	Aluminum	-	-	-
	Finish	-	-	Painted	-	-	-
Outer link	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Zinc plated	Zinc plated
Inner link	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing bolt	Material	Stainless steel	Stainless steel	Steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	Nickel plated	-	-	-
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
	Finish	-	-	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-
Note				* Slits are required on the right side edge of BB shell.			

Front Derailleur

Series		ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	
Model no.		FD-M2000-DS3	FD-M2000-DS6	FD-M370-3	FD-M370-6	FD-M371-3	FD-M371-6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	3	
	Rear	9	9	9	9	9	9	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	
Action	TOP SWING	-	-	X	X	-	-	
	Down Swing	X	X	-	-	X	X	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp Band	28.6mm	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)	
		31.8mm	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)	
		34.9mm	X	X	X	X	X	X
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	-	-	-	-
	Direct Mount	-	-	-	-	-	-	
Cable route type	Dual-Pull	X	X	X	X	X	X	
	Top-Pull exclusive	-	-	-	-	-	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	-	-	-	
Chainline (mm)		50	50	50	50	50	50	
Chain stay angle		63-66	66-69	63-66	66-69	63-66	66-69	
Top gear teeth		40T	40T	44T/48T	44T/48T	44T/48T	44T/48T	
Total capacity		18T	18T	22T	22T	22T	22T	
Applicable Top-Mid tooth difference		10T	10T	12T	12T	12T	12T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	-	-	-	-	
Angled clamp band design		X	X	X	X	X	X	
Link bushings		-	-	-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel Plated	Nickel Plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted / zinc plated	Painted / zinc plated	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel	
	Finish	-	-	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note								

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Front Derailleur

Series		ALTUS	ALTUS	ALTUS	ALTUS	TOURNEY TX	TOURNEY TX	
Model no.		FD-M313-3	FD-M313-6	FD-M310-3	FD-M310-6	FD-TX800-TS3	FD-TX800-TS6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	3	
	Rear	8/7	8/7	8/7	8/7	8/7	8/7	
Compatible chain		HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	
Action	TOP SWING	-	-	X	X	X	X	
	Down Swing	X	X	-	-	-	-	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp Band	28.6mm	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)	
		31.8mm	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)	
		34.9mm	X	X	X	X	X	X
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	-	-	-	-
Direct Mount	-	-	-	-	-	-		
Cable route type	Dual-Pull	X	X	X	X	X	X	
	Top-Pull exclusive	-	-	-	-	-	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	-	-	-	
Chainline (mm)		47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	
Chain stay angle		63-66	66-69	63-66	66-69	63-66	66-69	
Top gear teeth		42/48T	42/48T	42/48T	42/48T	42/48T	42/48T	
Total capacity		20T	20T	20T	20T	20T	20T	
Applicable Top-Mid tooth difference		10T	10T	10T	10T	10T	10T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		-	-	-	-	-	-	
Angled clamp band design		X	X	X	X	X	X	
Link bushings		-	-	-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Zinc plated	Zinc plated	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note								

Front Derailleur

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	
Model no.		FD-TY700-TS3	FD-TY700-TS6	FD-TY710-TS3	FD-TY710-TS6	FD-TY500-TS3	FD-TY500-TS6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	3	
	Rear	8/7	8/7	8/7	8/7	7/6	7/6	
Compatible chain		HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	
Action	TOP SWING	X	X	X	X	X	X	
	Down Swing	-	-	-	-	-	-	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp Band	28.6mm	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)	
		31.8mm	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)	
		34.9mm	X	X	X	X	X	
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	-	-	-	-
Direct Mount	-	-	-	-	-	-		
Cable route type	Dual-Pull	X	X	X	X	X	X	
	Top-Pull exclusive	-	-	-	-	-	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	-	-	-	
Chainline (mm)		47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	
Chain stay angle		63-66	66-69	63-66	66-69	63-66	66-69	
Top gear teeth		42T	42T	48T	48T	42T	42T	
Total capacity		18T	18T	20T	20T	18T	18T	
Applicable Top-Mid tooth difference		8T	8T	10T	10T	8T	8T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		-	-	-	-	-	-	
Angled clamp band design		X	X	X	X	X	X	
Link bushings		-	-	-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Zinc plated	Zinc plated	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Zinc plated	Zinc plated	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated / Painted	Chrome plated / Painted	
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note								

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Front Derailleur

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY TZ	TOURNEY TZ	
Model no.		FD-TY510-TS3	FD-TY510-TS6	FD-TY300-DS6	FD-TY300-DS6	FD-TZ500-DS6	FD-TZ510-DS6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3 (friction)	3 (friction)	
	Rear	7/6	7/6	7/6	7/6	7/6	7/6	
Compatible chain		HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	
Action	TOP SWING	X	X	-	-	-	-	
	Down Swing	-	-	X	X	X	X	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp Band	28.6mm	X (w/ S size adapter)	X (w/ S size adapter)	X	-	X	
		31.8mm	X (w/ M size adapter)	X (w/ M size adapter)	X	-	X	
		34.9mm	X	X	-	X	-	
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	-	-	-	-
	Direct Mount	-	-	-	-	-	-	
Cable route type	Dual-Pull	X	X	-	-	-	-	
	Top-Pull exclusive	-	-	X	X	X	X	
	Down-Pull exclusive	-	-	X	X	X	X	
	Front-Pull	-	-	-	-	-	-	
Chainline (mm)		47.5 / 50	47.5 / 50	47.5	50	47.5	47.5	
Chain stay angle		63-66	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		48T	48T	42T	42T	42T	48T	
Total capacity		20T	20T	18T	18T	18T	20T	
Applicable Top-Mid tooth difference		10T	10T	8T	8T	8T	10T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		-	-	-	-	-	-	
Angled clamp band design		X	X	-	-	-	-	
Link bushings		-	-	-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Zinc plated	Zinc plated	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel / Resin	Steel / Resin	Steel / Resin	Steel / Resin	
	Finish	Zinc plated	Zinc plated	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Zinc plated	Zinc plated	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated / Painted	Chrome plated / Painted	Zinc plated	Zinc plated	Painted	Painted	
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Zinc plated	Zinc plated	
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note								

Brake (Hydraulic disc brake)

Series		XTR	XTR	XTR	XTR	SAINT	DEORE XT
Model no.		BR-M9100	BR-M9120	BR-M9000	BR-M9020	BR-M820	BR-M8000
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-S5	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SB
Hose joint		Straight	Banjo	Banjo	Banjo	Banjo	Banjo
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	White	-
J-Kit spec (for OEM)		X	X	X	X	X	X
ICE TECHNOLOGIES pad compatible caliper		-	X	X	X	X	X
Pad	Standard 1	K03Ti Resin pad w/o fin (w/ titanium back plate)	N03A Resin pad (w/ radiator fin)	G02A Resin G03A Resin	J02A Resin J03A Resin	H01A Resin H03A Resin	G02A Resin G03A Resin
	Standard 2	K04Ti Metal pad w/o fin (w/ titanium back plate)	N04C Metal pad (w/ radiator fin)	G04Ti Metal	J04C Metal	H03C Metal	J02A Resin J03A Resin
	Option 1	-	-	J02A Resin J03A Resin	G02A Resin G03A Resin	-	G04S Metal
	Option 2	-	-	J04C Metal	G04Ti Metal	-	J04C Metal
Fixing BT Spec for rear mount	10 mm mount	-	-	-	-	-	-
	15 mm mount	-	-	-	-	-	-
	20 mm mount	-	-	-	-	-	-
	25 mm mount	-	-	-	-	-	-
	30 mm mount	-	-	-	-	-	-
	35 mm mount	-	-	-	-	-	-
Recommended brake lever		BL-M9100	BL-M9120	BL-M9000	BL-M9020	BL-M820	BL-M8000
Recommended disc brake rotor		RT-MT900	RT-MT900	SM-RT99 * SM-RT99-A	SM-RT99 * SM-RT99-A	SM-RT99 SM-RT86	SM-RT81 SM-RT86
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		X	X	X	X	X	X
Mount type (available for IS mount with mount adapter)		Post-type	Post-type	Post-type	Post-type	Post-type	Post-type
Piston		2	4	2	2	4	2
Piston material		Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Caliper	MONO-BODY	X	-	-	X	-	-
	Material	Aluminum	Aluminum	Magnesium	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Paint	Paint	Painted	Painted
Caliper fixing bolt	Material	Ti	Ti	Ti	Ti	Stainless steel	Stainless steel
	Tool size	** 4 mm	** 4 mm	** 4 mm	** 4 mm	5 mm	5 mm
	Anti loosen method	Wiring	Wiring	Wiring	Wiring	Snap ring	Snap ring
Pad mount		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)		312 g	385 g (w/ radiator fin)	316.1 g	359.6 g	306 g** (w/radiator fin)	402.5 g
Note		* 140mm for rear only ** Titanium	** Titanium	* 140 mm for rear only ** Titanium	* 140 mm for rear only ** Titanium	** single item weight	

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Brake (Hydraulic disc brake)

Series		DEORE XT	SLX	ZEE	DEORE	SHIMANO	SHIMANO
Model no.		BR-M8020	BR-M7000	BR-M640	BR-M6000	BR-M446	BR-MT520
Color	1	Series color	Series color	Series color	Series Black	Black	Black
	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 hose (kit)		SM-BH90-SBLS	SM-BH90-SB	SM-BH90-SBS	SM-BH90-SS	SM-BH59-JK-SS	SM-BH90-SS
Hose joint		Banjo	Banjo	Banjo	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	White	-	White	-
J-Kit spec (for OEM)		X	X	X	X	X	X
ICE TECHNOLOGIES pad compatible caliper		X	X	X	X	-	-
Pad	Standard 1	H01A Resin H03A Resin	G02S Resin	D01S Resin D03S Resin	G02S Resin G03S Resin	B01S Resin	D01S resin
	Standard 2	H03C Metal	J02A Resin	D02S Metal	J02A Resin ** J03A Resin **	-	D02S Metal
	Option 1	D01S Resin D03S Resin	G04S Metal	H01A Resin H03A Resin	G04S Metal **	-	-
	Option 2	-	J04C Metal	-	-	-	-
Fixing BT Spec for rear mount	10 mm mount	-	-	-	-	-	-
	15 mm mount	-	-	-	-	-	-
	20 mm mount	-	-	-	-	-	-
	25 mm mount	-	-	-	-	-	-
	30 mm mount	-	-	-	-	-	-
35 mm mount	-	-	-	-	-	-	
Recommended brake lever		BL-M8000	BL-M7000	BL-M640	BL-M6000 BL-T6000	BL-T445	BL-MT501
Recommended disc brake rotor		SM-RT81 SM-RT99 RT-EM800 RT-EM900	SM-RT70 SM-RT66	SM-RT66	SM-RT64, SM-RT66, SM-RT54, SM-RT56	SM-RT54 SM-RT56	SM-RT70
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		X	X	X	X	X	X
Mount type (available for IS mount with mount adapter)		Post-type	Post-type	Post-type	Post-type	Post-type	Post-type
Piston		4	2	4	2	2	4
Piston material		Ceramic	Ceramic	Ceramic	Resin	Resin	Ceramic
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Stainless steel	Stainless steel	Steel	Steel	Steel
	Tool size	5 mm	5 mm	5 mm	5 mm	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		Pad axle	Pad axle	Split pin	Split pin (stainless steel)	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)		-	418.8 g	314 g**	-	-	-
Note		-	-	** Single item weight	J-Kit spec available * T6000 kit only ** M6000 kit only *** Both M6000 kit and T6000 kit	SHIMANO logo	-

Brake (Hydraulic disc brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-MT500	BR-MT400	BR-MT200	BR-UR300
Color	1	Black	Black	Black	Black
	2	-	-	-	-
	3	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black
	2	-	-	-	-
J-Kit spec (for OEM)		X	X	X	X
ICE TECHNOLOGIES pad compatible caliper		-	-	-	-
Pad	Standard 1	B01S resin	B01S Resin	B01S Resin	B01S Resin
	Standard 2	-	-	-	-
	Option 1	-	-	-	-
	Option 2	-	-	-	-
Fixing BT Spec for rear mount	10 mm mount	-	-	-	X
	15 mm mount	-	-	-	X
	20 mm mount	-	-	-	X
	25 mm mount	-	-	-	X
	30 mm mount	-	-	-	X
	35 mm mount	-	-	-	X
Recommended brake lever		BL-MT500	BL-MT400	BL-MT201 BL-MT200	BL-MT201 BL-MT200
Recommended disc brake rotor		SM-RT54 SM-RT56	SM-RT30 SM-RT54 SM-RT56	SM-RT10 SM-RT26	SM-RT10 SM-RT26
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		X	X	X	X
Mount type (available for IS mount with mount adapter)		Post-type	Post-type	Post-type	Flat mount
Piston		2	2	2	2
Piston material		Resin	Resin	Resin	Resin
Caliper	MONO-BODY	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel
	Tool size	5 mm	5 mm	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	Snap ring Bolt fix pin
Pad mount		Split pin (stainless steel)	Split pin	Split pin	Split pin
Average Weight (kit for front 800mm, w/160mm recommend RT, w/lock ring, w/o adapter, w/2bolts, w/ Resin pad)		-	-	-	-
Note			-	-	-

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR**
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Brake (Mechanical disc brake)

Series		SHIMANO	TOURNEY TX
Model no.		BR-M375	BR-TX805
Color	1	Black	Black
	2	Silver	-
	3	-	-
Brake type		Mechanical disc brake	Mechanical disc brake
ICE TECHNOLOGIES pad compatible caliper		-	-
Pad	Standard 1	B01S Resin	B01S Resin
	Standard 2	-	-
	Option 1	-	-
	Option 2	-	-
Recommended brake lever		V-BRAKE BL (1.5-2.5 finger)	V-BRAKE BL (1.5-2.5 finger)
Recommended disc brake rotor		SM-RT10 SM-RT30 SM-RT26	SM-RT10 SM-RT26
Mount type (available for IS mount with mount adapter)		Post-type	Post-type
Piston		1	1
Piston material		-	-
Caliper	MONO-BODY	-	-
	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel
	Tool size	5mm	5mm
	Anti loosen method	Snap ring	Snap ring
Pad mount		Split pin	Split pin
Average weight		-	-
Note			

ARCHIVE

Brake (V-BRAKE)

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



- SL
- SLMT
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- BL
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- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Front Chainwheel

Series		XTR	XTR	XTR	XTR	SHIMANO	XTR
Model no.		FC-M9100-2	FC-M9120-B2	FC-M9100-1	FC-M9120-1	FC-MT900-1	FC-M9000-1
Color	1	Series color	Series color	Series color	Series color	Black	Series color
	2	-	-	-	-	-	-
Rear speeds		12 (Front double)	12 (Front double)	12	12	12	11
Compatible chain		CN-M9100	CN-M9100	CN-M9100	CN-M9100	CN-M9100	HG-X11
Chainline (mm)		48.8	51.8	52	52	52	50.4
P.C.D. (mm)		Direct	Direct	Direct	Direct	Direct	96
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm ***
Chainring combination		38-28T	38-28T	30, 32, 34, 36, 38T	30, 32, 34, 36, 38T	32T, 34T	36, 34, 32, 30T (SM-CRM90)
Q-factor (mm)		162	168	162	168	172	158
Crank arm length (mm)	165.0	X	X	X	X	-	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain / bash guard	X	X	X	X	X	X
HOLLOWTECH II	X	X	X	X	X	X	
2-PIECE CRANKSET	-	-	-	-	-	-	
HOLLOWTECH crank arm	-	-	-	-	-	-	
OCTALINK	-	-	-	-	-	-	
HOLLOWGLIDE	-	-	-	-	-	-	X*
Compatible BB type	Outboard	X	X	X	X	X	X
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded BB shell width	68mm	X	X	X	X	X	X
	73mm	X	X	X	X	X	X
	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	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Stainless steel / Aluminum / CFRP **
	Finish	Plated	Plated	Plated	Plated	Plated	Anodized
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	Aluminum	-	-	-	-
	Finish	Plated	Plated	-	-	-	-
Outer / middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
Inner ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Finish	Anodized	Anodized	Anodized	Anodized	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		X	X	X	X	X	X
Average Weight (175mm, w/o BB)		597 g	616 g	541 g (38T) 533 g (36T) 521 g (34T) 516 g (32T) 517 g (30T)	558 g (38T) 550 g (36T) 539 g (34T) 534 g (32T) 535 g (30T)	590 g (34T) 587 g (32T)	616 g (36T) 600 g (34T) 598 g (32T) 586 g (30T)
Note		-	-	-	-	-	* 36/34T is hollow, 32/30T is not hollow ** 32T/30T is Stainless steel/Aluminum *** Spider arm angle is special.

Front Chainwheel

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		FC-M9000-2	FC-M9020-1	FC-M9020-B1	FC-M9020-2	FC-M9020-B2	FC-M9020-3
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		11	11	11	11	11	11
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11
Chainline (mm)		48.8	50.4	53.4	48.8	51.8	50
P.C.D. (mm)		96/64	96	96	96/64	96/64	96/64
Gear arms		4 arm ***	4 arm ***	4 arm ***	4 arm ***	4 arm	4 arm ***
Chaining combination		38-28T 36-26T 34-24T	36, 34, 32, 30T (SM-CRM91)	32, 30T (SM-CRM91)	38-28T 36-26T 34-24T	36-26T 34-24T	40-30-22T
Q-factor (mm)		158	168	174	168	174	168
Crank arm length (mm)	165.0	-	X	-	X	-	X
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
	180.0	-	X	-	X	-	X
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain / bash guard	X	X	X	X	X	X
HOLLOWTECH II		X	X	X	X	X	X
2-PIECE CRANKSET		-	-	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		X	X*	-	X	X	X
Compatible BB type	Outboard	X	X	X	X	X	X
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded BB shell width	68mm	X	X	X	X	X	X
	73mm	X	X	X	X	X	X
	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	-
	Finish	-	-	-	-	Anodized	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Titanium / Aluminum / CFRP	Stainless steel / Aluminum / CFRP **	Stainless steel / Aluminum / CFRP **	Titanium / Aluminum / CFRP	Ti + Aluminum	Aluminum/CFRP
	Finish	Anodized	Anodized	Anodized	Anodized	-	Anodized
Middle ring	Material	-	-	-	-	-	Titanium/CFRP
	Finish	-	-	-	-	-	Shot Blasting
Inner ring	Material	Aluminum	-	-	Aluminum	Aluminum	Aluminum
	Finish	Plated	-	-	Plated	Plated	Plated
Outer / middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	-	-	-	Anodized	-
Inner ring fixing bolt	Material	Aluminum	-	-	Aluminum	Aluminum	Aluminum
	Finish	-	-	-	-	Anodized	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		X	X	X	X	X	X
Average Weight (175mm, w/o BB)		649 g (38-28T) 631 g (36-26T) 611 g (34-24T)	620 g (36T) 603 g (34T) 586 g (32T) 578 g (30T)	601 g (32T) 593 g (30T)	667 g (38-28T) 649 g (36-26T) 629 g (34-24T)	664 g (36-26T) 645 g (34-24T)	656 g
Note		*** Spider arm angle is special.	* 36/34T is hollow, 32/30T is not hollow ** 32T/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.		*** Spider arm angle is special.

- SL
- SLMT
- SMS
- BL
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- ST
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- BR
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- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Front Chainwheel

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX
Model no.		FC-M8000-1	FC-M8000-B1	FC-M8000-2	FC-M8000-B2	FC-M8000-3	FC-M7000-11-1
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		11	11	11	11	11	11
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11
Chainline (mm)		50.4	53.4	48.8	51.8	50	50
P.C.D. (mm)		96	96	96/64	96/64	96/64	96
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chaining combination		34, 32, 30T (SM-CRM81)	32, 30T (SM-CRM81)	38-28T 36-26T 34-24T	36-26T 34-24T	40-30-22T	34, 32, 30T (SM-CRM70)
Q-factor (mm)		176	176	176	176	176	176
Crank arm length (mm)	165.0	X	-	X	-	X	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	180.0	X	X (32T) - (30T)	X	X (36-26T) - (34-24T)	X	-
	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
Without chain / bash guard		X	X	X	X	X	X
HOLLOWTECH II		X	X	X	X	X	X
2-PIECE CRANKSET		-	-	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	X	X	X	X
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	BB-MT800	BB-MT800	BB-MT800	BB-MT800	BB-MT800	BB-MT800
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Axle length of BB-UN / ES (mm)	Pressfit	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA
	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
Threaded BB shell width	Threaded (chain case)	-	-	-	-	-	-
	68mm	X	X	X	X	X	X
	73mm	X	X	X	X	X	X
Chain case compatible	83mm	-	-	-	-	-	-
	-	-	-	-	-	-	-
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	Painted	Painted	Painted	Painted	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Stainless steel/CFRP	Steel +CF composite	Aluminum / CFRP	Aluminum +CF composite	Aluminum /GFRP	Steel +GF composite
	Finish	Painted(body)	Plated (teeth) Painted (body)	Plated(teeth), Painted(body)	Plated (teeth) Painted (body)	Anodized(teeth,body)	Plated(teeth)
Middle ring	Material	-	-	-	-	Steel/CFRP	-
	Finish	-	-	-	-	Plated(teeth)	-
Inner ring	Material	-	-	Aluminum	Aluminum	Aluminum	-
	Finish	-	-	Plated	Plated	Plated	-
Outer / middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing bolt	Material	-	-	Stainless steel	Stainless steel	Stainless steel	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		X	X	X	X	X	X
Average Weight (175mm, w/o BB)		699.8 g (34T) 694.5 g (32T) 680.0 g (30T)	698.0 g (36T)	738.9 g (38-28T) 718.1 g (36-26T) 695.5 g (34-24T)	721.6 g (36-26T)	773.9 g	721.1 g (34T) 715.4 g (32T) 699.3 g (30T)
Note		w/o chaining spec available for OTC, chaining 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.		- 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.		w/o chaining spec available for OTC, chaining is sold separately (SM-CRM70)

Front Chainwheel

Series		SLX	SLX	SLX	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-M7000-11-B1	FC-M7000-11-2	FC-M7000-11-B2	FC-MT700-2	FC-MT700-B2	FC-MT600-2
Color	1	Series color	Series color	Series color	Black	Black	Black
	2	-	-	-	-	-	-
Rear speeds		11	11	11	11	11	11
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11
Chainline (mm)		53	48.8	51.8	48.8	51.8	48.8
P.C.D. (mm)		96	96/64	96/64	*96/64	96/64	96/64
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chainring combination		32, 30T (SM-CRM70)	38-28T 36-26T 34-24T	36-26T 34-24T	36-26T 34-24T	36-26T 34-24T	36-26
Q-factor (mm)		176	176	176	175	175	177
Crank arm length (mm)	165.0	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
	180.0	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain / bash guard	X	X	X	X	X	X
HOLLOWTECH II		X	X	X	X	X	-
2-PIECE CRANKSET		-	-	-	-	-	X
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	X	X	X	X
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	BB-MT800	BB-MT800	BB-MT800	BB-MT800	BB-MT800	BB-MT800
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded BB shell width	68mm	X	X	X	X	X	X
	73mm	X	X	X	X	X	X
	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	Painted	Painted	Painted	Painted	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Steel +GF composite	Aluminum +GF composite	Aluminum +GF composite	Aluminum +GF composite	Aluminum +GF composite	Aluminum +GF composite
	Finish	Plated(teeth)	Plated(teeth)	Plated(teeth)	Plated(teeth)	Plated(teeth)	Anodized
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	-	Steel	Aluminum	Aluminum	Aluminum	Steel
	Finish	-	Painted	Plated	Plated	Plated	Painted
Outer / middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Anodized	Anodized	-	-	-
Inner ring fixing bolt	Material	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		X	X	X	X	X	X
Average Weight (175mm, w/o BB)		718.3 g (32T) 702.3 g (30T)	788.7 g (28-28T) 761.4 g (36-26T) 739.8 g (34-24T)	764.3 g (36-26T) 742.8 g (34-24T)	735.4 g (36-26T) 708.9 g (34-24T)	738.9 g (36-26T) 712.4 g (34-24T)	-
Note		- Chainline 3 mm outboard - w/o chainring spec available for OTC, chainring is sold separately (SM-CRM70)		Chainline 3 mm outboard	* Spider arm angle is special.		

- SL
- SLMT
- SMS
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- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Front Chainwheel

Series		SHIMANO	SAINT	SAINT	DEORE XT	SLX	ZEE
Model no.		FC-MT600-B2	FC-M820	FC-M825	FC-M785	FC-M7000-10-3	FC-M640
Color	1	Black	Series color	Series color	Black	Series color	Series color
	2	-	-	-	Silver	-	-
Rear speeds		11	10	10	10	10	10
Compatible chain		HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X	HG-X 10-speed
Chainline (mm)		51.8	50.4	57.9	48.8	50	50.4
P.C.D. (mm)		96/64	104	104	104/64	96/64	104
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chainring combination		36-26	38, 36, 34T (SM-CR82)	38, 36, 34T (SM-CR82)	40-28T 38-26T 38-24T	40-30-22T	38, 36, 34T (FC-M640/M645 chainring)
Q-factor (mm)		177	178	193	175	176	174.7
Crank arm length (mm)	165.0	-	X	X	X	-	X
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain / bash guard	X	X	X	X	X	X
HOLLOWTECH II		-	X	X	X	X	-
2-PIECE CRANKSET		X	-	-	-	-	X
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	X	X	X	X
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	BB-MT800	SM-BB80	SM-BB80	-	BB-MT800	SM-BB52
	Threaded (E-type)	-	-	-	-	-	SM-BB52
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	BB-MT800-PA	SM-BB71-41A	SM-BB71-41C	SM-BB71-41A	BB-MT800-PA	SM-BB71-41A
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded BB shell width	68mm	X	X	-	X	X	X
	73mm	X	X	-	X	X	X
	83mm	-	-	X	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	-
	Finish	Painted	Painted	Painted	Painted	Painted	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum +GF composite	-	-	Aluminum	Aluminum	-
	Finish	Anodized	-	-	Anodized	Anodized	-
Middle ring	Material	-	Aluminum	Aluminum	-	Steel +GF composite	Aluminum
	Finish	-	Anodized	Anodized	-	Plated(teeth)	Anodized
Inner ring	Material	Steel	-	-	Aluminum	Steel	-
	Finish	Painted	-	-	Plated	Painted	-
Outer / middle ring fixing bolt	Material	Stainless steel	Aluminum	Aluminum	Aluminum	Aluminum	Stainless steel
	Finish	-	Anodized	Anodized	Anodized	Anodized	-
Inner ring fixing bolt	Material	Stainless steel	-	-	Stainless steel	Stainless steel	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		X	X	X	X	X	X
Average Weight (175mm, w/o BB)		-	847 g (38T) 837 g (36T) 827 g (34T)	858 g (38T) 849 g (36T) 838 g (34T)	727.6 g (40-28T) 717.6 g (38-26T) 715.8 g (38-24T)	801.1 g (40-30-22T)	828 g (38T) 817 g (36T) 807 g (34T)
Note				for 83 mm BB shell width			

Front Chainwheel

Series	ZEE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.	FC-M645	FC-M6000-3	FC-M6000-2	FC-M6000-2	FC-M6000-2	FC-M6000-B2
Color	1	Series color	Series Black	Series Black	Series Black	Series Black
	2	-	-	-	-	-
Rear speeds	10	10	10	10	10	10
Compatible chain	HG-X 10-speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed
Chainline (mm)	57.9	50	48.8	48.8	48.8	51.8
P.C.D. (mm)	104	96/64	96/64	96/64	96/64	96/64
Gear arms	4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chainring combination	38, 36, 34T (FC-M640/M645 chainring)	40-30-22	38-28	36-26	34-24	36-26
Q-factor (mm)	189.7	176	176	176	176	176
Crank arm length (mm)	165.0	X	-	-	-	-
	167.5	-	-	-	-	-
	170.0	X	X	X	X	X
	172.5	-	-	-	-	-
	175.0	X	X	X	X	X
	177.5	-	-	-	-	-
	180.0	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-
	With chain guard	-	-	-	-	-
	Without chain / bash guard	X	X	X	X	X
HOLLOWTECH II	-	X	X	X	X	X
2-PIECE CRANKSET	X	-	-	-	-	-
HOLLOWTECH crank arm	-	-	-	-	-	-
OCTALINK	-	-	-	-	-	-
HOLLOWGLIDE	-	-	-	-	-	-
Compatible BB type	Outboard	X	X	X	X	X
	OCTALINK	-	-	-	-	-
	Square	-	-	-	-	-
Recommended BB	Threaded (normal)	SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52
	Threaded (E-type)	SM-BB52	-	-	-	-
	Threaded (chain case)	-	-	-	-	-
	Pressfit	SM-BB71-41C	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-
Threaded BB shell width	68mm	-	X	X	X	X
	73mm	-	X	X	X	X
	83mm	X	-	-	-	-
Chain case compatible	-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	Painted	Painted	Painted	Painted
Spider arm cover	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Outer ring	Material	-	Aluminum	Aluminum +GF composite	Aluminum +GF composite	Aluminum +GF composite
	Finish	-	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	Aluminum	Steel +GF composite	-	-	-
	Finish	Anodized	Plated(teeth)	-	-	-
Inner ring	Material	-	Steel	Steel	Steel	Steel
	Finish	-	Painted	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	Black	Black	Black	Black
Inner ring fixing bolt	Material	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-
Stainless chain guard fixing bolt	-	-	-	-	-	-
Crank fixing bolt included	X	X	X	X	X	X
Average Weight (175mm, w/o BB)	858 g (38T) 847 g (36T) 837 g (34T)	-	-	-	-	-
Note	for 83 mm BB shell width					

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Front Chainwheel

Series	DEORE	DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.	FC-M617	FC-M617-B2	FC-MT500-2	FC-MT500-B2	FC-MT500-3	FC-M627	
Color	1	Black	Black	Black	Black	Black	
	2	Silver	Silver	-	-	-	
Rear speeds	10	10	10	10	10	10	
Compatible chain	HG-X 10-speed	HG-X	HG-X 10speed	HG-X 10speed	HG-X 10-speed	HG-X 10-speed	
Chainline (mm)	48.8	51.8	48.8	51.8	50	48.8	
P.C.D. (mm)	104/64	104/64	96/64	96/64	96/64	104/64	
Gear arms	4 arm	4 arm	4 arm	4 arm	4 arm	4 arm	
Chainring combination	38-24T 36-22T	36-22T	36-26	36-26	40-30-22T	38-24T 36-22T	
Q-factor (mm)	176	176	177	177	177	176	
Crank arm length (mm)	165.0	-	-	-	-	-	
	167.5	-	-	-	-	-	
	170.0	X	X	X	X	X	
	172.5	-	-	-	-	-	
	175.0	X	X	X	X	X	
	177.5	-	-	-	-	-	
Optional chain guard	With bash guard	-	-	-	-	-	
	With chain guard	-	-	-	X	-	
	Without chain / bash guard	X	X	X	X	X	
HOLLOWTECH II	-	-	-	-	-	-	
2-PIECE CRANKSET	X	X	X	X	X	X	
HOLLOWTECH crank arm	-	-	-	-	-	-	
OCTALINK	-	-	-	-	-	-	
HOLLOWGLIDE	-	-	-	-	-	-	
Compatible BB type	Outboard	X	X	X	X	X	
	OCTALINK	-	-	-	-	-	
	Square	-	-	-	-	-	
Recommended BB	Threaded (normal)	SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52	
	Threaded (E-type)	SM-BB52	SM-BB52	-	-	SM-BB52	
	Threaded (chain case)	-	-	-	-	-	
	Pressfit	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-	
	Threaded (E-type)	-	-	-	-	-	
	Threaded (chain case)	-	-	-	-	-	
Threaded BB shell width	68mm	X	X	X	X	X	
	73mm	X	X	X	X	X	
	83mm	-	-	-	-	-	
Chain case compatible							
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Plated	Plated	
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	
Spider arm cover	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Outer ring	Material	Aluminum	Aluminum	Aluminum +GF composite	Aluminum +GF composite	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Middle ring	Material	-	-	-	-	Steel	
	Finish	-	-	-	-	Plated	
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel*	
	Finish	-	-	-	-	-	
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	
Stainless chain guard fixing bolt	-	-	-	-	-	-	
Crank fixing bolt included	X	X	X	X	X	X	
Average Weight (175mm, w/o BB)	-	-	-	-	-	-	
Note						* it is fixed on the threaded middle ring.	

Front Chainwheel

Series		SHIMANO	ALIVIO	ALIVIO	ALIVIO	ALTUS	SHIMANO
Model no.		FC-M627-B	FC-M4050	FC-M4050-B2	FC-M4060	FC-M2000	FC-M4000
Color	1	Black	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		10	9	9	9	9	9
Compatible chain		HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Chainline (mm)		51.8	50	51.8	50	50	50
P.C.D. (mm)		104/64	96/64	104/64	104/64	Riveted	96/64
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chaining combination		36-22T	40-30-22T	36-22T	48-36-26T	40-30-22T	40-30-22T
Q-factor (mm)		176	176	176	176	179.6	179.8
Crank arm length (mm)	165.0	-	X	-	X	X	X
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	X	-	X	X	X
	Without chain / bash guard	X	X	X	X	X	X
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		X	X	X	X	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	X
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	X	X	-	-
	OCTALINK	-	-	-	-	-	X
	Square	-	-	-	-	X	-
Recommended BB	Threaded (normal)	SM-BB52	SM-BB52	SM-BB52	SM-BB52	BB-UN100	BB-ES300
	Threaded (E-type)	SM-BB52	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	LL123	118
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded BB shell width	68mm	X	X	X	X	X	X
	73mm	X	X	X	X	X	-
	83mm	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	-	-
	Finish	Plated	Plated	Plated	Plated	-	-
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	Aluminum
	Finish	Painted	Painted	Painted	Painted	-	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Anodized	Painted	Painted	Painted	Painted	Painted
Middle ring	Material	-	Steel	-	Steel	Steel	Steel
	Finish	-	Painted	-	Painted	Painted	Painted
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		X	X	X	X	X	X
Average Weight (175mm, w/o BB)		-	-	-	-	-	-
Note		- 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
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Front Chainwheel

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	FC-M3000	FC-MT300-3	FC-MT210-3	FC-MT210-2	FC-MT210-B2	FC-MT200
Color	1	Black	Black	Black	Black	Black
	2	-	-	-	-	-
Rear speeds	9	9	9	9	9	9
Compatible chain	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Chainline (mm)	50	50	50	48.8	51.8	50
P.C.D. (mm)	96/64	104/64 (44-32-22T) 96/64 (40-30-22T)	Riveted	Riveted	Riveted	Riveted
Gear arms	4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chaining combination	40-30-22T	44-32-22T 40-30-22T	44-32-22T 40-30-22T	36-22T	36-22T	40-30-22T
Q-factor (mm)	179.1	176	176	176	176	176
Crank arm length (mm)	165.0	X	-	-	-	-
	167.5	-	-	-	-	-
	170.0	X	X	X	X	X
	172.5	-	-	-	-	-
	175.0	X	X	X	X	X
	177.5	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-
	With chain guard	X	X	X	-	X
	Without chain / bash guard	X	X	X	X	X
HOLLOWTECH II	-	-	-	-	-	-
2-PIECE CRANKSET	-	X	X	X	X	X
HOLLOWTECH crank arm	-	-	-	-	-	-
OCTALINK	-	-	-	-	-	-
HOLLOWGLIDE	-	-	-	-	-	-
Compatible BB type	Outboard	-	X	X	X	X
	OCTALINK	-	-	-	-	-
	Square	X	-	-	-	-
Recommended BB	Threaded (normal)	BB-UN26	BB-MT500	BB-MT500	BB-MT500	BB-MT500
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-
	Pressfit	-	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN / ES (mm)	Threaded (normal)	LL113	-	-	-	-
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-
Threaded BB shell width	68mm	X	X	X	X	X
	73mm	X	X	X	X	X
	83mm	-	-	-	-	-
Chain case compatible	-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Anodized	Painted
Crank axle	Material	-	Steel	Steel	Steel	Steel
	Finish	-	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Outer ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Middle ring	Material	Steel	Steel	Steel	-	Steel
	Finish	Painted	Painted	Painted	-	Painted
Inner ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel	-	-	-
	Finish	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	-	-	-
	Finish	-	-	-	-	-
Stainless chain guard fixing bolt	-	X	X	X	X	-
Crank fixing bolt included	X	X	X	X	X	X
Average Weight (175mm, w/o BB)	-	-	-	-	-	-
Note		SHIMANO logo	SHIMANO logo	-	Chainline 3mm outboard	SHIMANO logo

Front Chainwheel

Series	SHIMANO	SHIMANO	SHIMANO	ACERA	ALTUS	SHIMANO
Model no.	FC-MT101	FC-MT100	FC-M371	FC-M361	FC-M311	FC-TY701
Color	1	Black	Black	Black	Black	Light Gray Metallic
	2	-	-	-	-	Silver
Rear speeds	9	9	9	8/7	8/7	8/7/6
Compatible chain	HG 9-speed	HG 9-speed	HG for 9-speed	HG for 8/7-speed	HG for 8/7-speed	HG/UG for 8/7/6-speed
Chainline (mm)	50	50	50	50	50	47.5 / 47.5+t / 50
P.C.D. (mm)	Riveted	Riveted	Riveted	104/64	Riveted	Riveted
Gear arms	4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chaining combination	44-32-22T 40-30-22T	40-30-22T	44-32-22T 48-36-26T	48-38-28T 42-32-22T	48-38-28T 42-32-22T	48-38-28T 42-34-24T
Q-factor (mm)	179.2	179.2	180.5	185.9	187.9	185.5
Crank arm length (mm)	165.0	-	-	- (48-38-28T) X* (42-32-22T)	-	X
	167.5	-	-	-	-	-
	170.0	X	X	X	X	X
	172.5	-	-	-	-	-
	175.0	X	X	X	X	X
	177.5	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-
	With chain guard	X	X	X	X	X (separate type)
	Without chain / bash guard	X	X	X	X	X
HOLLOWTECH II	-	-	-	-	-	-
2-PIECE CRANKSET	-	-	-	-	-	-
HOLLOWTECH crank arm	-	-	-	-	-	-
OCTALINK	-	-	-	-	-	-
HOLLOWGLIDE	-	-	-	-	-	-
Compatible BB type	Outboard	-	-	-	-	-
	OCTALINK	-	-	-	-	-
	Square	X	X	X	X	X
Recommended BB	Threaded (normal)	BB-UN100	BB-UN100	BB-UN26	BB-UN26	BB-UN26
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	-	-	BB-UN26-K	BB-UN26-K	BB-UN26-K
	Pressfit	-	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	LL123	LL123	LL123	LL123	LL123
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	-	-	LL123-K	LL123-K	LL123-K
Threaded BB shell width	68mm	X	X	X	X	X
	73mm	X	X	X	X	X
	83mm	-	-	-	-	-
Chain case compatible	-	-	X	X	X	X
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Spider arm	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Spider arm cover	Material	-	-	Resin	-	Resin
	Finish	-	-	Resin	-	Resin
Outer ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Middle ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Inner ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	-	-	-	Stainless steel	-
	Finish	-	-	-	-	-
Inner ring fixing bolt	Material	-	-	-	Stainless steel	-
	Finish	-	-	-	-	-
Stainless chain guard fixing bolt	-	-	-	-	-	-
Crank fixing bolt included	X (Option)	X	X	X	X	X
Average Weight (175mm, w/o BB)	-	-	-	-	-	-
Note	SHIMANO logo	SHIMANO logo	SHIMANO logo	SHIMANO logo, * 48-38-28T Silver with CG spec	SHIMANO logo	* BB Spec for Chainline 50 mm

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- C-DECK

Front Chainwheel

Series		SHIMANO	TOURNEY TX	SHIMANO	SHIMANO	DXR
Model no.		FC-TY701	FC-TX801	FC-TY501	FC-TY301	FC-MX71
Color	1	Metallic Black	Black	Black	Black	Series color
	2	Silver	Silver	Silver	-	-
Rear speeds		8/7/6	8/7/6	8/7/6	8/7/6	1
Compatible chain		HG/UG for 8/7/6-speed	HG for 8/7-speed	HG/UG for 8/7/6-speed	HG/UG for 8/7/6-speed	Single speed
Chainline (mm)		47.5 / 47.5+t / 50	50	47.5 / 47.5+t / 50	47.5 / 47.5+t / 50	44
P.C.D. (mm)		Riveted	Riveted	Riveted	Riveted	104/64
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm
Chaining combination		42-34-24T	48-38-28T 42-32-22T	48-38-28T 42-34-24T	48-38-28T 42-34-24T	34, 38, 41, 42, 43, 44, 46T
Q-factor (mm)		185.5	187.9	185.5	181.5	173
Crank arm length (mm)	165.0	X	X	X	-	X
	167.5	-	-	-	-	-
	170.0	X	X	X	X	X
	172.5	-	-	-	-	-
	175.0	X	X	X	X	X
	177.5	-	-	-	-	-
	180.0	-	-	-	-	X
Optional chain guard	With bash guard	-	-	-	-	-
	With chain guard	X (separate type)	X	X (integrated type)	X (integrated type)	-
	Without chain / bash guard	X	X	X	X	X
HOLLOWTECH II		-	-	-	-	X
2-PIECE CRANKSET		-	-	-	-	X
HOLLOWTECH crank arm		-	-	-	-	X
OCTALINK		-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-
Compatible BB type	Outboard	-	-	-	-	X
	OCTALINK	-	-	-	-	-
	Square	X	X	X	X	-
Recommended BB	Threaded (normal)	BB-UN100 / BB-UN26	BB-UN100	BB-UN100 / BB-UN26	BB-UN100 / BB-UN26	-
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	BB-UN100-K / BB-UN26K	BB-UN100-K	BB-UN100-K / BB-UN26K	BB-UN100-K / BB-UN26K	-
	Pressfit	-	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	D-NL / *D-EL	LL123	D-NL / *D-EL	D-NL / *D-EL	-
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	D-NL K	LL123-K	D-NL K	D-NL K	-
Threaded BB shell width	68mm	X	X	X	X	X
	73mm	X	X	X	X	X
	83mm	-	-	-	-	-
Chain case compatible		X	X	X	X	-
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
Spider arm cover	Material	Resin	Resin	Resin	Resin	-
	Finish	Painted	Resin	- (black) Painted (silver)	-	-
Outer ring	Material	Steel	Steel	Steel	Steel	Aluminum
	Finish	Painted (Black)	Painted	Painted	Painted	Anodized
Middle ring	Material	Steel	Steel	Steel	Steel	-
	Finish	Painted (Black)	Painted	Painted	Painted	-
Inner ring	Material	Steel	Steel	Steel	Steel	-
	Finish	Painted (Black)	Painted	Painted	Painted	-
Outer / middle ring fixing bolt	Material	-	-	-	-	Aluminum
	Finish	-	-	-	-	Anodized
Inner ring fixing bolt	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-
Crank fixing bolt included		X	X	X (Option)	-	X
Average Weight (175mm, w/o BB)		-	-	-	-	765 g (w/o chaining)
Note		* BB Spec for Chainline 50 mm		* BB Spec for Chainline 50 mm	150 mm Spec available for 42-34-22T (Black) * BB Spec for Chainline 50 mm	BMX racing 68 mm BB shell width

Chain device

Series	SHIMANO	SHIMANO	SHIMANO	SAINT
Model no.	SM-CD800-D	SM-CD800-E	SM-CD800-I	SM-CD50
Color	Black	Black	Black	Series color
Spec	Single	Single	Single	w/one guard
Chain compatibility	CN-M9100	CN-M9100	CN-M9100	9, 10-speed
Chainline (mm)	52	52	52	50/75
Top gear teeth	30, 32, 34, 36, 38T	30, 32, 34, 36, 38T	30, 32, 34, 36, 38T	38, 36, 34T
Assumed rear sprocket teeth	10-45T, 10-51T	10-45T, 10-51T	10-45T, 10-51T	11-23T_36T
Mount	D-type	E-type	ISCG05	ISCG03 ISCG05
Rear suspension stroke	-	-	-	0-250 mm
Chain stay angle	63 - 75 degree	63 - 75 degree	63 - 75 degree	-
Back plate	Resin	Resin	Aluminum	Aluminum
Chainguide	Resin	Resin	Resin	Aluminum
Note				

Chainring

Series	XTR	XTR	DEORE XT	SLX	SHIMANO	SHIMANO	
Model no.	SM-CRM95	SM-CRM91	SM-CRM81	SM-CRM70	SM-CR82	SM-CR80-A	
Color	1	Standard	Standard	Standard	Black	Black	
	2	-	-	-	-	-	
	3	-	-	-	-	-	
Gear speed	1	1	1	1	1	1	
Rear speed	12-speed	X	-	-	-	-	
	11-speed	X	X	X	X	-	
	10-speed	-	X	X	X	-	
	9-speed	-	-	-	-	X	
	Single	-	-	-	-	-	
DYNAMIC CHAIN ENGAGEMENT+	X	X	X	X	-	-	
Chainring teeth	46T	-	-	-	-	X	
	44T	-	-	-	-	X	
	43T	-	-	-	-	X	
	42T	-	-	-	-	X	
	41T	-	-	-	-	X	
	40T	-	-	-	-	-	
	38T	X	-	-	-	X	
	36T	X	X	-	-	X	
	34T	X	X	X	X	X	
	32T	X	X	X	X	-	
Chain guard type	Double	-	-	-	-	-	
	Single	-	-	-	-	-	
	W/O CG	-	X	X	X	X	
P.C.D. (mm)	-	96	96	96	104	104	
Chainring	Material	Aluminum	Aluminum	Stainless steel (teeth)/ CFRP (body)	Stainless steel (teeth) /GFRP (body)	Aluminum	Aluminum
	Finish	Plated	Anodized*	Plated (teeth) /Painted (body)	Plated(teeth)	Anodized	Anodized
Note		* 32, 34, 36T anodized, 30T painted			* SM-CD50 bash guard is compatible		

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Bottom Bracket (HOLLOWTECH II)

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

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BB-MT500	BB-MT500-P	SM-BB71-41	SM-BB52
HOLLOWTECH II BB	Threaded BB type	X	-	-	X
	Press-Fit type	-	X	X	-
Threaded BB shell width (mm)	68	X	-	-	X
	73	X	-	-	X
	83	-	-	-	-
Press-Fit BB shell width (mm)	84.5	-	-	-	-
	89.5	-	X (BB-MT500-PA)	X (SM-BB71-41A)	-
	92	-	X (BB-MT500-PA)	X (SM-BB71-41A)	-
	104.5	-	-	-	-
	107	-	-	-	-
Small ball bearing		-	-	-	-
Adapter	Material	Aluminum	Resin	Resin	Aluminum
	Finish	Anodized	-	-	Painted
Spacer	Material	Resin	Resin	Resin	Resin
	Finish	-	-	-	-
Average weight		-	-	71 g	-
Note					

Bottom Bracket

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		BB-ES300	BB-ES300-E	BB-ES300-K	BB-ES300-AK	BB-ES51	BB-ES51-E	
Structure	Standard	X	-	-	-	X	-	
	E-type	-	X	-	-	-	X	
	For chain case	-	-	X	X	-	-	
Spindle	Hollow pipe	X	X	X	X	X	X	
	OCTALINK	X	X	X	X	X	X	
	Square type	-	-	-	-	-	-	
Axle length / shell width (mm)	107	68 (BC1.37)	-	-	-	-	-	
		70 (M36)	-	-	-	-	-	
		73 (BC1.37)	-	-	-	-	-	
	MM110	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	LL113	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	113	68 (BC1.37)	X	X	-	-	X	-
		70 (M36)	X	-	-	-	-	-
		73 (BC1.37)	X	-	-	-	X	-
	D-H	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
	YL117	68 (BC1.37)	-	-	-	-	-	-
	117.5	68 (BC1.37)	-	-	-	-	-	-
	118	68 (BC1.37)	X	X	-	-	X	-
		70 (M36)	X	-	-	-	-	-
		73 (BC1.37)	X	-	-	-	X	-
	XL118	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 mm	-	-	-	-	-	-
	121	68 (BC1.37)	X	X	X	X*	X	-
		70 (M36)	-	-	-	-	X	-
		73 (BC1.37)	X	X	-	-	-	-
	126	68 (BC1.37)	X	X	X*	-	X	-
		73 (BC1.37)	X	X	-	-	-	-
	D-NL 122	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
	73 (BC1.37)	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
	D-EL 127	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
	73 (BC1.37)	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
	LL123	68 (BC1.37)	-	-	-	-	-	-
70 (M36)		-	-	-	-	-	-	
73 (BC1.37)		-	-	-	-	-	-	
123SP	68 (BC1.37)	-	-	-	-	-	-	
130	68 (BC1.37)	-	-	-	-	-	-	
Spindle	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Bonderlube	Bonderlube	Bonderlube	Bonderlube	Painted (Black)	Painted (Black)	
Left hand adapter	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Finish	-	-	-	-	-	-	
Right hand adapter / Shell	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated	Nickel Chrome	Nickel Chrome	
Note				* w/ 0.7mm spacer	* w/ 1.8mm spacer version also available for FC-M521			

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Bottom Bracket

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		BB-ES51-K	BB-ES51-AK	BB-UN55	BB-UN26	BB-UN26-E	BB-UN26-K	
Structure	Standard	-	-	X	X	-	-	
	E-type	-	-	-	-	X	-	
	For chain case	X	X	-	-	-	X	
Spindle	Hollow pipe	X	X	-	-	-	-	
	OCTALINK	X	X	-	-	-	-	
	Square type	-	-	X	X	X	X	
Axle length / shell width (mm)	107	68 (BC1.37)	-	X	-	-	-	
		70 (M36)	-	X	-	-	-	
		73 (BC1.37)	-	X	-	-	-	
	MM110	68 (BC1.37)	-	-	X	X*	X	X
		70 (M36)	-	-	X	X	-	-
		73 (BC1.37)	-	-	X	X	-	-
	LL113	68 (BC1.37)	-	-	X	X*	X	-
		70 (M36)	-	-	X	X	-	-
		73 (BC1.37)	-	-	X	X	X	-
	113	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	D-H	68 (BC1.37)	-	-	X	-	-	-
		70 (M36)	-	-	X	-	-	-
	YL117	68 (BC1.37)	-	-	-	X* (CL:47.5) X (CL:45)	X* (CL:47.5)	X* (CL:47.5)
	117.5	68 (BC1.37)	-	-	-	X	-	X
	118	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	XL118	68 (BC1.37)	-	-	X	-	-	-
		70 (M36)	-	-	X	-	-	-
		73 mm	-	-	X	-	-	-
	121	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	126	68 (BC1.37)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	D-NL 122	68 (BC1.37)	-	-	X	X*	-	X*
		70 (M36)	-	-	X	-	-	-
	D-EL 127	73 (BC1.37)	-	-	X	-	-	-
		68 (BC1.37)	-	-	X	X*	-	-
		70 (M36)	-	-	-	-	-	-
	LL123	73 (BC1.37)	-	-	-	-	-	-
		68 (BC1.37)	-	-	-	X	X	X (t=1.8)
		70 (M36)	-	-	-	X	-	-
	123SP	68 (BC1.37)	-	-	-	X	-	-
130	68 (BC1.37)	-	-	-	X	-	-	
Spindle	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted (Black)	Painted (Black)	Painted (Black)	Bondelube	Bondelube	Bondelube	
Left hand adapter	Material	Resin	Resin	Aluminum	Resin	Resin	Resin	
	Finish	-	-	-	-	-	-	
Right hand adapter / Shell	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel Chrome	Nickel Chrome	Nickel Chrome	Phosphate coated	Phosphate coated	Phosphate coated	
Note			For FC-M521 Only		* w/ Fixing Bolts	* w/ Fixing Bolts	* w/ Fixing Bolts	

Bottom Bracket

Series		SHIMANO	SHIMANO
Model no.		BB-UN100	BB-UN100-K
Structure	Standard	X	-
	E-type	-	-
	For chain case	-	X
Spindle	Hollow pipe	-	-
	OCTALINK	-	-
	Square type	X	X
Axle length / shell width (mm)	107	68 (BC1.37)	-
		70 (M36)	-
		73 (BC1.37)	-
	MM110	68 (BC1.37)	-
		70 (M36)	-
		73 (BC1.37)	-
	LL113	68 (BC1.37)	-
		70 (M36)	-
		73 (BC1.37)	-
	113	68 (BC1.37)	-
		70 (M36)	-
		73 (BC1.37)	-
	D-H	68 (BC1.37)	-
		70 (M36)	-
	YL117	68 (BC1.37)	-
	117.5	68 (BC1.37)	-
		73 (BC1.37)	-
	118	68 (BC1.37)	-
		70 (M36)	-
		73 (BC1.37)	-
	XL118	68 (BC1.37)	-
		70 (M36)	-
		73 mm	-
	121	68 (BC1.37)	-
		70 (M36)	-
		73 (BC1.37)	-
	126	68 (BC1.37)	-
		73 (BC1.37)	-
		70 (M36)	-
	D-NL 122	68 (BC1.37)	X*
		70 (M36)	-
	D-EL 127	68 (BC1.37)	-
		70 (M36)	-
		73 (BC1.37)	-
	LL123	68 (BC1.37)	X
		70 (M36)	-
73 (BC1.37)		X	
123SP	68 (BC1.37)	-	
130	68 (BC1.37)	-	
Spindle	Material	Steel	Steel
	Finish	Lube	Lube
Left hand adapter	Material	Resin	Resin
	Finish	-	-
Right hand adapter / Shell	Material	Resin / Steel	Resin / Steel
	Finish	-	-
Note	* w/ crank arm fixing bolts spec available		* w/ crank arm fixing bolts spec available
			** w/ 0.7 mm spacer



- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Cassette Sprocket

Series		XTR	XTR	DEORE XT
Model no.		CS-M9100-12	CS-M9001	CS-M8000
Type		HYPERGLIDE+	HG	HG
Speeds		12-speed	11-speed	11-speed
Compatible chain		CN-M9100	HG-X11	HG-X11
Combination name (Group name)		10-45T 10-51T	11-40T (bs)	11-40T (bs) 11-42T (bt) 11-46T (bu)
Combination	Combination 1	10-12-14-16-18-21-24-28-32-36-40-45T	11-13-15-17-19-21* [*] -24* [*] -27* [*] -31* [*] -35* [*] -40** ^T	11-13-15-17-19-21-24-27-31-35-40** ^T (bs)
	Combination 2	10-12-14-16-18-21-24-28-33-39-45-51T	-	11-13-15-17-19-21-24-28-32-37-42** ^T (bt)
	Combination 3	-	-	11-13-15-17-19-21-24-28-32-37** ^T -46** ^T (bu)
	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	1	2	2
	Material	Aluminum	Aluminum/Carbon	Aluminum
	Finish	Anodized	Anodized	Anodized
Titanium gear	QTY (pcs)	5	1	-
	Finish	-	Shot	-
Aluminum gear	QTY (pcs)	3	6	2
	Finish	-	-	-
Steel gear	QTY (pcs)	4	4	9
	Finish	-	Shot-Ni	Shot-Ni
Lock ring	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Average Weight		357 g (10-45T) 367 g (10-51T)	330 g	411 g (11-40T) 434 g (11-42T) 437 g (11-46T)
Note		-	* Titanium gear ** Aluminum gear	** Aluminum gear

Series		SLX	XTR	DEORE XT
Model no.		CS-M7000-11	CS-M980	CS-M771-10
Type		HG	HG	HG
Speeds		11-speed	10-speed	10-speed
Compatible chain		HG-X11	HG-X 10-speed	HG-X 10-speed
Combination name (Group name)		11-40T (bs) 11-42T (bt) 11-46T (bu)	11-34T (bj) 11-36T (bk)	11-32T (bl) 11-34T (bj) 11-36T (bk)
Combination	Combination 1	11-13-15-17-19-21-24-27-31-35-40** ^T (bs)	11-13-15-17-19-21* [*] -23* [*] -26* [*] -30* [*] -34* ^T (bj)	11-12-14-16-18-20-22-25-28-32T (bl)
	Combination 2	11-13-15-17-19-21-24-28-32-37-42** ^T (bt)	11-13-15-17-19-21* [*] -24* [*] -28* [*] -32* [*] -36* ^T (bk)	11-13-15-17-19-21-23-26-30-34T (bj)
	Combination 3	11-13-15-17-19-21-24-28-32-37** ^T -46** ^T (bu)	-	11-13-15-17-19-21-24-28-32-36T (bk)
	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	1	3	2
	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	Shot	Shot
Aluminum gear	QTY (pcs)	1 (11-40T) 1 (11-42T) 2 (11-46T)	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	10 (11-40T) 10 (11-42T) 9 (11-46T)	-	10
	Finish	Shot-Ni	Shot-Ni	Shot-Cr
Lock ring	Material	Steel	Aluminum	Aluminum
	Finish	Plated	Anodized	Anodized
Average Weight		450 g (11-40T) 476 g (11-42T) 482 g (11-46T)	255 g (11-34T) 272 g (11-36T)	294 g (11-32T) 323 g (11-34T) 343 g (11-36T)
Note		** Aluminum gear	* Titanium gear	

Cassette Sprocket

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG81-10	CS-HG50-10	CS-HG500-10
Type		HG	HG	HG
Speeds		10-speed	10-speed	10-speed
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X
Combination name (Group name)		11-32T (bL) 11-34T (bJ) 11-36T (bK)	11-36T (bK)	11-42T
Combination	Combination 1	11-12-14-16-18-20-22-25-28-32T (bL)	11-13-15-17-19-21-24-28-32-36T (bK)	11-13-15-18-21-24-28-32-37-42**T
	Combination 2	11-13-15-17-19-21-23-26-30-34T (bJ)	-	-
	Combination 3	11-13-15-17-19-21-24-28-32-36T (bK)	-	-
	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	1	1	1
	Material	Aluminum	Steel	Steel
	Finish	Anodized	Ni plated	Plated
Titanium gear	QTY (pcs)	-	-	-
	Finish	Shot	-	-
Aluminum gear	QTY (pcs)	-	-	1
	Finish	-	-	-
Steel gear	QTY (pcs)	10	10	10
	Finish	Shot-Cr/Shot-Ni	Ni plated	Shot-Ni
Lock ring	Material	Steel	Steel	Steel
	Finish	Cr plated	Cr plated	Plated
Average Weight		317 g (11-32T) 351 g (11-34T) 369 g (11-36T)	-	-
Note		Use CN-6701 with Road double FC		** Aluminum gear

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG400-9	CS-HG201-9	CS-HG200-9
Type		HG	HG	HG
Speeds		9-speed	9-speed	9-speed
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed
Combination name (Group name)		11-28T (bG) 11-32T (aR) 11-34T (aU) 12-36T (bH) 11-36T (cB)	11-32T (bO) 11-34T (bN) 11-36T (bW)	11-32T (bO) 11-34T (bN) 11-36T (bW)
Combination	Combination 1	11-12-13-14-16-18-21-24-28T (bG)	11-13-15-17-19-21-24-28-32T (bO)	11-13-15-17-19-21-24-28-32T (bO)
	Combination 2	11-12-14-16-18-21-24-28-32T (aR)	11-13-15-17-20-23-26-30-34T (bN)	11-13-15-17-20-23-26-30-34T (bN)
	Combination 3	11-13-15-17-20-23-26-30-34T (aU)	11-13-15-17-20-23-26-30-36T (bW)	11-13-15-17-20-23-26-30-36T (bW)
	Combination 4	12-14-16-18-21-24-28-32-36T (bH)	-	-
	Combination 5	11-13-15-17-20-23-26-30-36T (cB)	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	-	-	-
	Material	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	9	9	9
	Finish	Ni-Ni plated	Ni-Ni plated (Top gear: Phosphate coated)	Phosphate coated
Lock ring	Material	Steel	Steel	Steel
	Finish	Ni-Ni plated	Phosphate coated	Phosphate coated
Average Weight		-	-	-
Note				

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Cassette Sprocket

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG51-8	CS-HG41-8	CS-HG31-8
Type		HG	HG	HG
Speeds		8-speed	8-speed	8-speed
Compatible chain		IG/HG	IG/HG	IG/HG
Combination name (Group name)		11-28T (bf) 11-30T (an) 11-23T (aw)	11-30T (an) 11-32T (aw) 11-34T (ao)	11-30T (an) 11-32T (aw) 11-34T (ao)
Combination	Combination 1	11-13-15-17-19-21-24-28T (bf)	11-13-15-17-20-23-26-30T (an)	11-13-15-17-20-23-26-30T (an)
	Combination 2	11-13-15-17-20-23-26-30T (an)	11-13-15-18-21-24-28-32T (aw)	11-13-15-18-21-24-28-32T (aw)
	Combination 3	11-13-15-18-21-24-28-32T (aw)	11-13-15-17-20-23-26-34T (ao)	11-13-15-17-20-23-26-34T (ao)
	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	-	-	-
	Material	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	8	8	8
	Finish	Chrome plated	Ni plated	Phosphate coated
Lock ring	Material	Steel	Steel	Steel
	Finish	Chrome plated	Phosphate coated	Phosphate coated
Average Weight		-	-	-
Note				

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG200-8	CS-HG41-7	CS-HG200-7
Type		HG	HG	HG
Speeds		8-speed	7-speed	7-speed
Compatible chain		HG 8-speed	IG/HG	IG/HG
Combination name (Group name)		12-32T (br)	11-28T (ac)	12-28T (bm) 12-32T (bp)
Combination	Combination 1	12-14-16-18-21-24-28-32T (br)	11-13-15-18-21-24-28T (ac)	12-14-16-18-21-24-28T (bm)
	Combination 2	-	-	12-14-16-18-21-26-32T (bp)
	Combination 3	-	-	-
	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	-	-	-
	Material	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	8	8	7
	Finish	Phosphate coated	Ni plated	Phosphate coated
Lock ring	Material	Steel	Steel	Steel
	Finish	Phosphate coated	Phosphate coated	Phosphate coated
Average Weight		-	-	-
Note				

Cassette Sprocket

Series		DXR
Model no.		CS-MX66
Type		Single sprocket for FH-MX70
Speeds		Single
Compatible chain		1/2" x 3/32"
Combination name (Group name)		-
Combination	Combination 1	-
	Combination 2	-
	Combination 3	-
	Combination 4	-
	Combination 5	-
	Combination 6	-
	Combination 7	-
Spider arm	QTY (pcs)	-
	Material	-
	Finish	-
Titanium gear	QTY (pcs)	-
	Finish	-
Aluminum gear	QTY (pcs)	-
	Finish	-
Steel gear	QTY (pcs)	1
	Finish	Shot-Cr/Shot-Ni
Lock ring	Material	Steel
	Finish	Chrome plated
Average Weight		-
Note		For BMX racing

ARCHIVE

SL

SLMT

SMS

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

Multiple Freewheel

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

ARCHIVE

Front Hub (Disc Brake)

Series		XTR	XTR	XTR	SHIMANO	SHIMANO	SAINT
Model no.		HB-M9110	HB-M9110-B	HB-M9110-BS	HB-MT900-B	HB-MT900-BS	HB-M820
Color	1 Hub Shell	Series color	Series color	Series color	Black	Black	Series color
	1 QR	-	-	-	-	-	-
	2 Hub Shell	-	-	-	-	-	-
	2 QR	-	-	-	-	-	-
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		100	110	110	110	110	110
Spoke hole	28H	X	X	X	X	X	-
	32H	X	X	-	X	-	X
	36H	-	-	-	-	-	X
External serration disc brake rotor lock ring	with	X	X	X	-	-	X
	without	-	-	-	X	X	-
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		15mm E-THRU	15mm E-THRU	15mm E-THRU	15mm E-THRU	15mm E-THRU	20mm Thru
QR skewer length	129 mm	-	-	-	-	-	-
	133 mm	-	-	-	-	-	-
Thru Axle (Length x Inner diameter)	100 x 15 mm	X	-	-	-	-	-
	110 x 15 mm	-	X	X	X	X	-
	110 x 20 mm	-	-	-	-	-	X
Flange distance (mm)		60.2	70.2	62.76	70.2	62.76	61.6
Offset (mm)		5.4	5.4	3.63	5.4	3.63	5.6
P.C.D. Left / Right (mm)		44 / 44	44 / 44	45	44 / 44	45	52
Flange diameter (mm)		52.8	52.8	51	52.8	51	59.6
Seal		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Internal grease sleeve		X	X	X	X	X	X
Bearing	Stainless ball	X	X	X	X	X	X
	Cup	Grinded	Grinded	Grinded	Grinded	Grinded	CBN
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
QR lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
QR housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
QR nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Average Weight		132 g	137 g	146 g	158 g	163 g	216 g
Note		-	-	For straight spoke ERD: 550-610 mm Rim offset: 0-3 mm Intersections: 3 cross only including spoke heads in hub shell Some spoke calculators may call this 2 cross Contact the nearest SHIMANO sales office for more information	-	For straight spoke ERD: 550-610 mm Rim offset: 0-3 mm Intersections: 3 cross only including spoke heads in hub shell Some spoke calculators may call this 2 cross Contact the nearest SHIMANO sales office for more information	Axle is supplied with front fork.

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Front Hub (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX	SLX
Model no.		HB-M8000	HB-M8010	HB-M8010-B	HB-M756	HB-M7000	HB-M7010
Color	1 Hub Shell	Series color	Series color	Series color	Black	Series color	Series color
	1 QR	Series color	-	-	Black	Series color	-
	2 Hub Shell	-	-	-	Silver	-	-
	2 QR	-	-	-	Silver	-	-
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		100	100	110	100	100	100
Spoke hole	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	-	X	-	X	-	-
External serration disc brake rotor lock ring	with	-	X	-	-	-	X
	without	-	-	-	-	-	-
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		QR	15mm E-THRU	15mm E-THRU	QR	QR	15mm E-THRU
QR skewer length	129 mm	-	-	-	-	-	-
	133 mm	-	-	-	X	X	-
Thru Axle (Length x Inner diameter)	100 x 15 mm	-	X	-	-	-	X
	110 x 15 mm	-	-	X	-	-	-
	110 x 20 mm	-	-	-	-	-	-
Flange distance (mm)		60.4	60.2	70.2	59.4	60.2	60.2
Offset (mm)		5.8	5.3	5.4	5.5	5.5	5.3
P.C.D. Left / Right (mm)		44 / 41	44 / 44	44 / 44	61	44 / 44	44 / 44
Flange diameter (mm)		52.8 / 51.4	52.8	52.8	70.6	52.8 / 52.8	52.8
Seal		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Internal grease sleeve		X	X	X	-	X	X
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	Grinding	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Aluminum
	Finish	Anodized	Anodized	Anodized	-	-	Anodized
QR lever	Material	Aluminum	-	-	Aluminum	Aluminum	-
	Finish	Anodized	-	-	Anodized	Anodized	-
QR housing	Material	Aluminum	-	-	Aluminum	Aluminum	-
	Finish	Anodized	-	-	Anodized	Anodized	-
QR nut	Material	Resin & Steel	-	-	Resin & Steel	Resin & Steel	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	Aluminum	Aluminum	-	-	Aluminum
	Finish	-	Anodized	Anodized	-	-	Anodized
Average Weight		164 g	148 g	158 g	239 g	189 g	148 g
Note		-	Axle is supplied with front fork.	-	Spoke hole 24H spec available.	-	-

Front Hub (Disc Brake)

Series		SLX	ZEE	DEORE	DEORE	DEORE	SHIMANO
Model no.		HB-M7010-B	HB-M640	HB-M6000	HB-M6010	HB-M6010-B	HB-M525A
Color	1 Hub Shell	Series color	Series color	Series Black	Series Black	Series Black	Black
	1 QR	-	-	Series Black	-	-	Black
	2 Hub Shell	-	-	Series Silver*	-	-	Silver
	2 QR	-	-	Series Silver*	-	-	Silver
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake
O.L.D. (mm)		110	110	100	100	110	100
Spoke hole	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	-	X	X	X	-	X
External serration disc brake rotor lock ring	with	X	X	-	X	X	-
	without	-	-	-	-	-	-
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		15mm E-THRU	20mm Thru	QR	15mm E-THRU	15mm E-THRU	QR
QR skewer length	129 mm	-	-	-	-	-	-
	133 mm	-	-	X	-	-	X
Thru Axle (Length x Inner diameter)	100 x 15 mm	-	-	-	X	-	-
	110 x 15 mm	X	-	-	-	X	-
	110 x 20 mm	-	X	-	-	-	-
Flange distance (mm)		70.2	61.6	60.2	60.2	70.2	59.4
Offset (mm)		5.4	5.6	5.6	5.3	5.4	5.5
P.C.D. Left / Right (mm)		44 / 44	52	44	44	44 / 44	61
Flange diameter (mm)		52.8	59.6	52.8	52.8	52.8	70.6
Seal		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Internal grease sleeve		X	X	-	X	X	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Steel	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	-	Anodized	Anodized	-
QR lever	Material	-	-	Aluminum	-	-	Aluminum
	Finish	-	-	Anodized	-	-	Anodized
QR housing	Material	-	-	Aluminum	-	-	Aluminum
	Finish	-	-	Anodized	-	-	Anodized
QR nut	Material	-	-	Resin & Steel	-	-	Resin & Steel
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	Aluminum	Aluminum	-	Steel	Steel	-
	Finish	Anodized	Anodized	-	-	-	-
Average Weight		158 g	228 g	-	-	-	-
Note		-	Axle is supplied with front fork.	* for Trekking	-	-	-

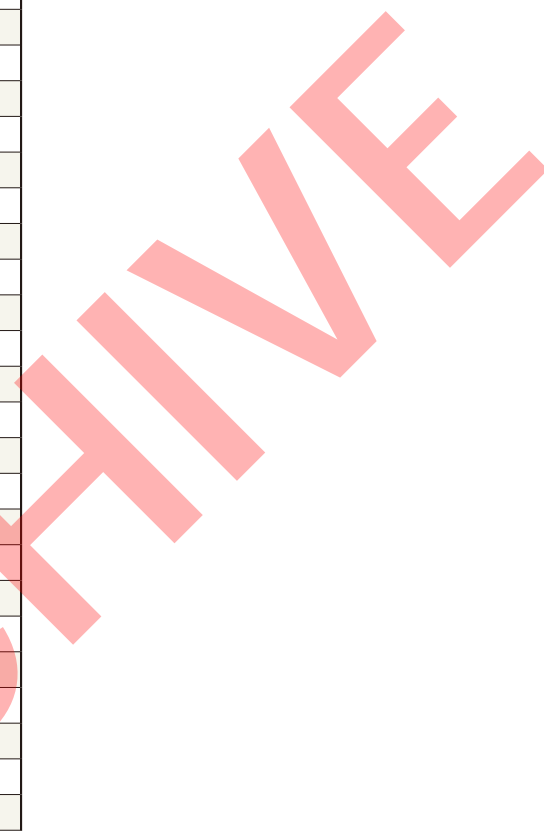
- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Front Hub (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		HB-M475	HB-M4050	HB-M3050	HB-MT400	HB-MT400-B	HB-MT200
Color	1 Hub Shell	Black	Black	Black	Black	Black	Black
	1 QR	Black	Black	Black	-	-	Black
	2 Hub Shell	Silver	Silver	-	-	-	-
	2 QR	Silver	Silver	-	-	-	-
Brake Type		6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		100	100	100	100	110	100
Spoke hole	28H	-	-	-	-	-	X
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
External serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	-	-	-	-	-	-
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		QR	QR	QR	15 mm E-THRU	15 mm E-THRU	QR
QR skewer length	129 mm	-	-	-	-	-	-
	133 mm	X	X	X	-	-	X
Thru Axle (Length x Inner diameter)	100 x 15 mm	-	-	-	X	-	-
	110 x 15 mm	-	-	-	-	X	-
	110 x 20 mm	-	-	-	-	-	-
Flange distance (mm)		59.4	60.2	60.2	60.2	70.2	60.2
Offset (mm)		5.5	5.6	5.5	5.3	5.3	5.3
P.C.D. Left / Right (mm)		61	44 / 44	44 / 44	44 / 44	44 / 44	44 / 44
Flange diameter (mm)		70.6	52.8	52.8	52.8	52.8	32/36H: 52.8 28H: 53.8
Seal		Contact	Labyrinth & Contact	Contact	Labyrinth & Contact	Labyrinth & Contact	-
Internal grease sleeve		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Aluminum	Aluminum	Steel
	Finish	-	-	-	-	-	-
QR lever	Material	Steel	Aluminum	Steel	-	-	Steel
	Finish	Plated	Barrel	Plated	-	-	Plated
QR housing	Material	Steel	Steel	Steel	-	-	Steel
	Finish	Plated	Plated	Plated	-	-	Plated
QR nut	Material	Resin & Steel	Resin & Steel	Resin & Steel	-	-	Resin & Steel
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	Steel	Steel	-
	Finish	-	-	-	-	-	-
Average Weight		-	-	-	-	-	-
Note		-	-	-	-	-	-

Front Hub (Disc Brake)

Series		SHIMANO	SHIMANO
Model no.		HB-RM35	HB-TX505
Color	1 Hub Shell	Black	Black
	1 QR	Black	Black
	2 Hub Shell	-	-
	2 QR	-	-
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		100	100
Spoke hole	28H	X	-
	32H	X	X
	36H	X	X
External serration disc brake rotor lock ring	with	-	-
	without	-	-
CENTER LOCK mount cover option		-	-
Axle fixing method		QR	QR
QR skewer length	129 mm	-	X
	133 mm	X	X
Thru Axle (Length x Inner diameter)	100 x 15 mm	-	-
	110 x 15 mm	-	-
	110 x 20 mm	-	-
Flange distance (mm)		60.2	60.2
Offset (mm)		5.5	5.5
P.C.D. Left / Right (mm)		44/44	44/44
Flange diameter (mm)		52.8	52.8
Seal		-	-
Internal grease sleeve		-	-
Bearing	Stainless ball	-	-
	Cup	-	-
	Cone	-	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Axle	Material	Steel	Steel
	Finish	-	-
QR lever	Material	Steel	Steel
	Finish	Plated	Plated
QR housing	Material	Steel	Steel
	Finish	Plated	Plated
QR nut	Material	Resin & Steel	Resin & Steel
	Finish	-	-
Disc brake rotor lock ring	Material	-	-
	Finish	-	-
Average Weight		-	-
Note		-	-



- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB**
- HB
- FH
- FH
- WH
- CI-DECK

Front Hub (Rim Brake)

Series		SHIMANO	SHIMANO
Model no.		HB-TX500-QR	HB-TX500-NT
Color	1 Hub Shell	Black	Black
	1 QR	Black	Black
	2 Hub Shell	Silver	Silver
	2 QR	Black	Black
Brake Type		Rim brake	Rim brake
O.L.D. (mm)		100	100
Spoke hole	28H	-	-
	32H	X	X
	36H	X	X
External serration disc brake rotor lock ring	with	-	-
	without	X	X
CENTER LOCK mount cover option		-	-
Axle fixing method		QR	Nut
QR skewer length	129 mm	X	-
	133 mm	X	-
Thru Axle (Length x Inner diameter)	100 x 15 mm	-	-
	110 x 15 mm	-	-
	110 x 20 mm	-	-
Flange distance (mm)		71.6	71.6
Offset (mm)		0	0
P.C.D. Left / Right (mm)		38/38	38/38
Flange diameter (mm)		46	46
Seal		-	-
Internal grease sleeve		-	-
Bearing	Stainless ball	-	-
	Cup	-	-
	Cone	-	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Painted (Black) / Clear	Painted (Black) / Clear
Axle	Material	Steel	Steel
	Finish	-	-
QR lever	Material	Steel	-
	Finish	Plated	-
QR housing	Material	Steel	-
	Finish	Plated	-
QR nut	Material	Resin & Steel	-
	Finish	-	-
Rotor lock ring	Material	-	-
	Finish	-	-
Average weight		-	-
Note			

FREEHUB (Disc Brake)

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		FH-M9110	FH-M9110-B	FH-M9110-BS	FH-M9111	FH-M9111-B	FH-M9111-BS
Color	1 Hub Shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 QR	-	-	-	-	-	-
	2 Hub Shell	-	-	-	-	-	-
	2 QR	-	-	-	-	-	-
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds		12-speed	12-speed	12-speed	12-speed	12-speed	12-speed
O.L.D. (mm)		142	148	148	142	148	148
Spoke hole	28H	X	X	X	X	X	X
	32H	X	X	-	X	X	-
	36H	-	-	-	-	-	-
10 tooth cog compatible		X	X	X	X	X	X
External serration disc brake rotor lock ring	with	-	-	-	X	X	X
	without	X	X	X	X	X	X
Internal serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	X	X	X	X	X	X
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
QR skewer length	166 mm	-	-	-	-	-	-
	168 mm	-	-	-	-	-	-
	170 mm	-	-	-	-	-	-
	173 mm	-	-	-	-	-	-
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-	-
	142 x 12 mm	X	-	-	X	-	-
	148 x 12 mm	-	X	X	-	X	X
	150 x 12 mm	-	-	-	-	-	-
Flange distance (mm)		55.89	63.06	56.0	55.89	63.06	56.0
Offset (mm)		7	6.9	6.8	7.05	7.02	6.8
P.C.D. Left/Right (mm)		50/61	47.25/61	45/61	50/61	47.25/61	45/61
Flange diameter Left/Right (mm)		59/70	56.25/70	51/68.4	59/70	56.25/70	51/68.4
Quick engagement		X (max 7.6 deg.)	X (max 7.6 deg.)	X (max 7.6 deg.)	X (max 7.0 deg.)	X (max 7.0 deg.)	X (max 7.0 deg.)
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	-	-	-
Bearing	Stainless ball	X	X	X	X	X	X
	Cup	Grinded	Grinded	Grinded	Grinded	Grinded	Grinded
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
QR lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
QR housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
QR nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Rotor lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Average Weight * *w/o axle, QR nor locking		231 g	231 g	235 g	237 g	238 g	241 g
Note		SCYLENCE ratchet system MICRO SPLINE	SCYLENCE ratchet system MICRO SPLINE	SCYLENCE ratchet system MICRO SPLINE For straight spoke ERD: 550-610 mm Rim offset: 0-3 mm Intersections: 3 cross only including spoke heads in hub shell Some spoke calculators may call this 2 cross Contact the nearest SHIMANO sales office for more information			* For straight spoke, Lacing pattern limited to 3-cross, non-offset rim For details, refer to Products Technical Information

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	XTR	SAINT
Model no.		FH-MT900-B	FH-MT900-BS	FH-MT901-B	FH-MT901-BS	FH-M9000	FH-M820
Color	1 Hub Shell	Black	Black	Black	Black	Series color	Series color
	1 QR	-	-	-	-	Series color	-
	2 Hub Shell	-	-	-	-	-	-
	2 QR	-	-	-	-	-	-
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds		12-speed	12-speed	12-speed	12-speed	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed
O.L.D. (mm)		148	148	148	148	135	135
Spoke hole	28H	X	X	X	X	-	-
	32H	X	-	X	-	X	X
	36H	-	-	-	-	-	X
10 tooth cog compatible		X	X	X	X	-	-
External serration disc brake rotor lock ring	with	-	-	X	X	X	X
	without	X	X	X	X	-	-
Internal serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	X	X	X	X	X	X
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	QR	Thru
QR skewer length	166 mm	-	-	-	-	-	-
	168 mm	-	-	-	-	X	-
	170 mm	-	-	-	-	-	-
	173 mm	-	-	-	-	X	-
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	-	-	-	-	X
	135 x 12 mm	-	-	-	-	-	X
	142 x 12 mm	-	-	-	-	-	-
	148 x 12 mm	X	X	X	X	-	-
	150 x 12 mm	-	-	-	-	-	-
Flange distance (mm)		62.26	56.0	62.26	56.0	57.4	57.4
Offset (mm)		6.63	6.8	6.63	6.8	6.6	6.4
P.C.D. Left/Right (mm)		59/61	45/61	59/61	45/61	44/45	44/45
Flange diameter Left/Right (mm)		68/70	51/68.4	68/70	51/68.4	52.8/53.8	52.8/ 53.8
Quick engagement		X (max 7.6 deg.)	X (max 7.6 deg.)	X (max 7.0 deg.)	X (max 7.0 deg.)	X (36 points/360 deg.)	X (36 points/360 deg.)
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	-	X	X
Bearing	Stainless ball	X	X	X	X	X	X
	Cup	Grinded	Grinded	Grinded	Grinded	Grinding	Grinding
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Titanium	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
QR lever	Material	-	-	-	-	Aluminum	-
	Finish	-	-	-	-	Anodized	-
QR housing	Material	-	-	-	-	Aluminum	-
	Finish	-	-	-	-	Anodized	-
QR nut	Material	-	-	-	-	Resin & Steel	-
	Finish	-	-	-	-	-	-
Rotor lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Average Weight * *w/o axle, QR nor locking		263g	235g	258 g	241 g	271 g	347 g (ø10) 333 g (ø12)
Note		SCYLENCE ratchet system MICRO SPLINE	SCYLENCE ratchet system MICRO SPLINE For straight spoke ERD: 550-610 mm Rim offset: 0-3 mm Intersections: 3 cross only including spoke heads in hub shell Some spoke calculators may call this 2 cross Contact the nearest SHIMANO sales office for more information			* For straight spoke, Lacing pattern limited to 3-cross, non-offset rim For details, refer to Products Technical Information	

FREEHUB (Disc Brake)

Series		SAINT	SAINT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		FH-M825	FH-M828	FH-M8000	FH-M8010	FH-M8010-B	FH-M756
Color	1 Hub Shell	Series color	Series color	Series color	Series color	Series color	Black
	1 QR	-	-	Series color	-	-	Black
	2 Hub Shell	-	-	-	-	-	Silver
	2 QR	-	-	-	-	-	Black
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake
Speeds		8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed
O.L.D. (mm)		150	142	135	142	148	135
Spoke hole	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	-	-	-	X
10 tooth cog compatible		-	-	-	-	-	-
External serration disc brake rotor lock ring	with	X	-	-	-	X	-
	without	-	-	X	X	X	-
Internal serration disc brake rotor lock ring	with	-	X	-	-	-	-
	without	X	-	X	X	X	-
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		Thru	Thru	QR	12mm E-THRU	12mm E-THRU	QR
QR skewer length	166 mm	-	-	-	-	-	-
	168 mm	-	-	X	-	-	X
	170 mm	-	-	-	-	-	-
	173 mm	-	-	X	-	-	X
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-	-
	142 x 12 mm	-	X	-	X	-	-
	148 x 12 mm	-	-	-	-	X	-
	150 x 12 mm	X	-	-	-	-	-
	157 x 12 mm	-	-	-	-	-	-
Flange distance (mm)		72.4	57.4	57.4	57.4	63.4	57.1
Offset (mm)		6.6	6.4	6.6	6.4	6.4	6.8
P.C.D. Left/Right (mm)		44/45	44/45	44/45	44/45	44/45	61
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	70.6
Quick engagement		X (36 points/360 deg.)	X (more than 36 times/ 360 deg.)	X (more than 36 times/ 360 deg.)	X (more than 36 times/ 360 deg.)	X (36 times/360 deg.)	-
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		X	X	X	X	-	X
Bearing	Stainless ball	X	-	-	-	-	-
	Cup	Grinding	Grinding	-	-	Grinding	-
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Aluminum	Aluminum	Aluminum	Steel
	Finish	-	-	Anodized	Anodized	Anodized	-
QR lever	Material	-	-	Aluminum	-	-	Aluminum
	Finish	-	-	Anodized	-	-	Anodized
QR housing	Material	-	-	Aluminum	-	-	Aluminum
	Finish	-	-	Anodized	-	-	Anodized
QR nut	Material	-	-	Resin & Steel	-	-	Resin & Steel
	Finish	-	-	-	-	-	-
Rotor lock ring	Material	Aluminum	Aluminum	-	-	-	-
	Finish	Anodized	Anodized	-	-	-	-
Average Weight * *w/o axle, QR nor locking		348 g	336 g	328 g	359 g	367 g	426 g
Note							Spoke hole 24H spec available

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

FREEHUB (Disc Brake)

Series		SLX	SLX	SLX	ZEE	ZEE	ZEE
Model no.		FH-M7000	FH-M7010	FH-M7010-B	FH-M640	FH-M645	FH-M648
Color	1 Hub Shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 QR	Series color	-	-	-	-	-
	2 Hub Shell	-	-	-	-	-	-
	2 QR	-	-	-	-	-	-
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds		8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed
O.L.D. (mm)		135	142	148	135	150	142
Spoke hole	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	-	-	-	X	X	X
10 tooth cog compatible		-	-	-	-	-	-
External serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	-	-	-	X	X	-
Internal serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	-	-	-	X	X	-
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		QR	12 mm E-THRU	12 mm E-THRU	Thru	Thru	Thru
QR skewer length	166 mm	-	-	-	-	-	-
	168 mm	X	-	-	-	-	-
	170 mm	-	-	-	-	-	-
	173 mm	X	-	-	-	-	-
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	-	-	X	-	-
	135 x 12 mm	-	-	-	X	-	-
	142 x 12 mm	-	X	-	-	-	X
	148 x 12 mm	-	-	X	-	-	-
	150 x 12 mm	-	-	-	-	X	-
	157 x 12 mm	-	-	-	-	-	-
Flange distance (mm)		57.4	57.4	63.4	57.4	72.4	57.4
Offset (mm)		6.6	6.4	6.4	6.4	6.4	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 engagement		X (more than 32 times/ 360 deg.)	X (more than 36 times/ 360 deg.)	X (more than 36 times/ 360 deg.)	X (36 points/360 deg.)	X (36 points/360 deg.)	X (more than 36 times/ 360 deg.)
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		X	X	X	X	X	X
Bearing	Stainless ball	-	-	-	X	X	-
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
QR lever	Material	Aluminum	-	-	-	-	-
	Finish	Anodized	-	-	-	-	-
QR housing	Material	Aluminum	-	-	-	-	-
	Finish	Anodized	-	-	-	-	-
QR nut	Material	Resin & Steel	-	-	-	-	-
	Finish	-	-	-	-	-	-
Rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average Weight * *w/o axle, QR nor locking		384 g	357 g	360 g	375 g (ø10) 350 g (ø12)	363 g	357 g
Note							

FREEHUB (Disc Brake)

Series		DEORE	DEORE	DEORE	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-M6000	FH-M6010	FH-M6010-B	FH-M525A	FH-M475	FH-M4050
Color	1 Hub Shell	Series Black	Series Black	Series Black	Black	Black	Black
	1 QR	Series Black	-	-	Black	Black	Black
	2 Hub Shell	Series Silver*	-	-	Silver	Silver	Silver
	2 QR	Series Black	-	-	Black	Black	Black
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake	6-bolt disc brake	CENTER LOCK disc brake
Speeds		8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed	8-10 speed MTB 11-speed
O.L.D. (mm)		135	142	148	135	135	135
Spoke hole	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	X	-	X	X	X	X
10 tooth cog compatible		-	-	-	-	-	-
External serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	X	X	X	-	X	X
Internal serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	X	X	X	-	X	X
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		QR	12mm E-THRU	12mm E-THRU	QR	QR	QR
QR skewer length	166 mm	-	-	-	-	X	-
	168 mm	X	-	-	X	-	X
	170 mm	-	-	-	-	X	-
	173 mm	X	-	-	X	X	X
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-	-
	142 x 12 mm	-	X	-	-	-	-
	148 x 12 mm	-	-	X	-	-	-
	150 x 12 mm	-	-	-	-	-	-
	157 x 12 mm	-	-	-	-	-	-
Flange distance (mm)		57.4	57.4	63.4	57.1	57.1	57.4
Offset (mm)		6.6	6.4	6.4	6.8	6.8	6.6
P.C.D. Left/Right (mm)		45	44/45	44/45	61	61	45 / 45
Flange diameter Left/Right (mm)		53.8	52.8/ 53.8	52.8/53.8	70.6	70.6	53.8
Quick engagement		-	X (36 times/360 deg.)	X (36 times/360 deg.)	-	-	-
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	Contact	Contact	Contact	Contact	-	Contact
Internal grease sleeve		X	X	X	-	-	X
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	-	CBN
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
QR lever	Material	Aluminum	-	-	Aluminum	Steel	Aluminum
	Finish	Anodized	-	-	Anodized	Plated	Barrel
QR housing	Material	Aluminum	-	-	Aluminum	Steel	Steel
	Finish	Anodized	-	-	Anodized	Plated	Plated
QR nut	Material	Resin & Steel	-	-	Resin & Steel	Steel + Resin	Steel + Resin
	Finish	-	-	-	-	-	-
Rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average Weight * *w/o axle, QR nor locking		372 g	357 g	360g	435g	445g	385g
Note		* for Trekking					

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH**
- FH
- WH
- Q-DECK

FREEHUB (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	FH-M3050	FH-MT400	FH-MT400-B	FH-MT200-B	FH-RM35	FH-TX505-8
Color	1 Hub Shell	Black	Black	Black	Black	Black
	1 QR	Black	-	-	-	Black
	2 Hub Shell	-	-	-	-	-
	2 QR	-	-	-	-	-
Brake Type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds	8-10 speed	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10-speed	8-10-speed	8-10-speed
O.L.D. (mm)	135	142	148	141	135	135
Spoke hole	28H	-	-	-	X	X*
	32H	X	X	X	X	X
	36H	X	X	X	X	X
10 tooth cog compatible	-	-	-	-	-	-
External serration disc brake rotor lock ring	with	-	-	-	-	-
	without	X	X	X	X	X
Internal serration disc brake rotor lock ring	with	-	-	-	-	-
	without	X	X	X	X	X
CENTER LOCK mount cover option	-	-	-	-	-	-
Axle fixing method	QR	12 mm E-THRU	12 mm E-THRU	QR	QR	QR
QR skewer length	166 mm	X	-	-	166 + 6mm	X
	168 mm	-	-	-	-	-
	170 mm	X	-	-	170 + 6mm	X
	173 mm	-	-	-	-	-
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-
	142 x 12 mm	-	X	-	-	-
	148 x 12 mm	-	-	X	-	-
	150 x 12 mm	-	-	-	-	-
157 x 12 mm	-	-	-	-	-	
Flange distance (mm)	57.4	57.4	63.4	63.4	57.4	57.4
Offset (mm)	6.6	6.6	6.6	6.6	6.6	6.6
P.C.D. Left/Right (mm)	45 / 45	44/45	44/45	45	45 / 45	45 / 45
Flange diameter Left/Right (mm)	53.8	52.8/53.8	52.8/53.8	53.8	53.8	53.8
Quick engagement	-	-	-	-	-	-
Seal	Hub	Contact	Labyrinth & Contact	Labyrinth & Contact	-	-
	FREEHUB body	-	Contact	Contact	-	-
Internal grease sleeve	-	X	X	-	-	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	-	-	-	-	-
	Cone	-	CBN	CBN	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-
QR lever	Material	Steel	-	-	Steel	Steel
	Finish	Plated	-	-	Plated	Plated
QR housing	Material	Steel	-	-	Steel	Steel
	Finish	Plated	-	-	Painted	Plated
QR nut	Material	Steel + Resin	-	-	Steel + Resin	Steel + Resin
	Finish	-	-	-	-	-
Rotor lock ring	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Average Weight * *w/o axle, QR nor locking	386g	357g	369g	402.5g	386g	403.5g
Note					* 166 mm QR spec	

FREEHUB (Rim Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-TX500-8-QR	FH-TX500-8-NT	FH-TY500-7-QR	FH-TY500-7-NT
Color	1 Hub Shell	Black	Black	Black	Black
	1 QR	Black	Black	Black	Black
	2 Hub Shell	Silver	Silver	-	-
	2 QR	Black	Black	-	-
Brake Type		Rim brake	Rim brake	Rim brake	Rim brake
Speeds		8/9-speed	8/9-speed	7-speed	7-speed
O.L.D. (mm)		135	135	135	135
Spoke hole	28H	-	-	-	-
	32H	X	X	X	X
	36H	X	X	X	X
External serration disc brake rotor lock ring	with	-	-	-	-
	without	X	X	X	X
Internal serration rotor lock ring	with	-	-	-	-
	without	X	X	X	X
CENTER LOCK mount cover option		-	-	-	-
Axle fixing method		QR	Nut	QR	Nut
QR skewer length	166 mm	X	-	X	-
	168 mm	-	-	-	-
	170 mm	X	-	X	-
	173 mm	-	-	-	-
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	-	-	-
	135 x 12 mm	-	-	-	-
	142 x 12 mm	-	-	-	-
	148 x 12 mm	-	-	-	-
	150 x 12 mm	-	-	-	-
Flange distance (mm)		57.4	57.4	57.4	57.4
Offset (mm)		6.8	6.8	4.6	4.6
P.C.D. Left/Right (mm)		45 / 45	45 / 45	45 / 45	45 / 45
Flange diameter Left/Right (mm)		53.8	53.8	53.8	53.8
Quick engagement		-	-	-	-
Seal	Hub	-	-	-	-
	FREEHUB body	-	-	-	-
Internal grease sleeve		-	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	-	-	-	-
	Cone	-	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted (Black) / Clear	Painted (Black) / Clear	Painted (Black)	Painted (Black)
Axle	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
QR lever	Material	Steel	-	Steel	-
	Finish	Plated	-	Plated	-
QR housing	Material	Steel	-	Steel	-
	Finish	Plated	-	Painted	-
QR nut	Material	Steel + Resin	-	Steel + Resin	-
	Finish	-	-	-	-
Rotor lock ring	Material	-	-	-	-
	Finish	-	-	-	-
Average weight* *w/o axle, QR nor lockring		-	-	-	-
Note				O.L.D. : 130 mm Available (Refer to Road FH Specification Table)	O.L.D. : 130 mm Available (Refer to Road FH Specification Table)

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Wheel (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		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	WH-M8000-TL-R12-B-29
Model name		WH-M8000-TL	WH-M8000-TL	WH-M8000-TL	WH-M8000-TL	WH-M8000-TL	WH-M8000-TL
Spec.		F-29	F15-29	F15-B-29	R-29	R12-29	R12-B-29
Color	1 Hub Shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 QR	Series color	-	-	Series color	-	-
	2 Hub Shell	-	-	-	-	-	-
	2 QR	-	-	-	-	-	-
Front / Rear		Front	Front	Front	Rear	Rear	Rear
Brake Type		CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Speeds		-	-	-	MTB 11-speed***	MTB 11-speed***	MTB 11-speed***
O.L.D. (mm)		100	100	110	135	142	148
Wheel Size		622x20C (29")	622x20C (29")	622x20C (29")	622x20C (29")	622x20C (29")	622x20C (29")
External serration disc brake rotor lock ring	with	-	X	X	-	-	-
	without	-	-	-	-	-	-
Tire	Type	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *
	Recommended size	29x1.90-2.25	29x1.90-2.25	29x1.90-2.25	29x1.90-2.25	29x1.90-2.25	29x1.90-2.25
Rim	Height (mm)	18.8	18.8	18.8	18.8	18.8	18.8
	Width (mm)	23.9	23.9	23.9	23.9	23.9	23.9
	Rim joint	Welding	Welding	Welding	Welding	Welding	Welding
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	X	X	X	X	X	X
Requires rim tape		X**	X**	X**	X**	X**	X**
Spokes	Number	28	28	28	28	28	28
	Straight pull	X	X	X	X	X	X
	J-bend	-	-	-	-	-	-
	Butted	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	2.0-1.8-2.0
	Bladed	-	-	-	-	-	-
Axle fixing method		QR	15mm E-THRU	15mm E-THRU	QR	12mm E-THRU	12mm E-THRU
QR skewer length	133 mm	X	-	-	-	-	-
	168 mm	-	-	-	X	-	-
	173 mm	-	-	-	X	-	-
Thru Axle (Length x Inner diameter)	100 x 15 mm	-	X	-	-	-	-
	110 x 15 mm	-	-	X	-	-	-
	142 x 12 mm	-	-	-	-	X	-
	148 x 12 mm	-	-	-	-	-	X
Quick engagement		-	-	-	X (36points/360°)	X (36points/360°)	X (36points/360°)
Bearing	Stainless ball	-	X	-	-	-	-
	Cup	Grinding	Grinding	Grinding	Grinding	-	Grinding
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	-	-	-	Contact	Contact	Contact
Internal grease sleeve		X	X	X	X	X	X
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
QR lever	Material	Aluminum	-	-	Aluminum	-	-
	Finish	Anodized	-	-	Anodized	-	-
	Color	Series color	-	-	Series color	-	-
QR housing	Material	Aluminum	-	-	Aluminum	-	-
	Finish	Anodized	-	-	Anodized	-	-
QR nut	Material	Resin & Steel	-	-	Resin & Steel	-	-
	Finish	-	-	-	-	-	-
Rotor lock ring	Material	-	Aluminum	Aluminum	-	-	-
	Finish	-	Anodized	Anodized	-	-	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average Weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)		839 g	796 g	843 g	1,017 g	1,046 g	1,049 g
Note		* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed	* Max pressure 300kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed	* Max pressure 300kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed

Wheel (Disc Brake)

Series	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.	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	WH-M8000-TL-R12-B-275
Model name	WH-M8000-TL	WH-M8000-TL	WH-M8000-TL	WH-M8000-TL	WH-M8000-TL	WH-M8000-TL
Spec.	F-275	F15-275	F15-B-275	R-275	R12-275	R12-B-275
Color	1 Hub Shell	Series color	Series color	Series color	Series color	Series color
	1 QR	Series color	-	Series color	Series color	-
	2 Hub Shell	-	-	-	-	-
	2 QR	-	-	-	-	-
Front / Rear	Front	Front	Front	Rear	Rear	Rear
Brake Type	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Speeds	-	-	-	MTB 11-speed***	MTB 11-speed***	MTB 11-speed***
O.L.D. (mm)	100	100	110	135	142	148
Wheel Size	584x20C (650B=27.5")	584x20C (650B=27.5")	584x20C (650B=27.5")	584x20C (650B=27.5")	584x20C (650B=27.5")	584x20C (650B=27.5")
External serration disc brake rotor lock ring	with	-	X	X	-	-
	without	-	-	-	-	-
Tire	Type	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *
	Recommended size	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
Rim	Height (mm)	18.8	18.8	18.8	18.8	18.8
	Width (mm)	23.9	23.9	23.9	23.9	23.9
	Rim joint	Welding	Welding	Welding	Welding	Welding
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	X	X	X	X	X
	Requires rim tape	X**	X**	X**	X**	X**
Spokes	Number	28	28	28	28	28
	Straight pull	X	X	X	X	X
	J-bend	-	-	-	-	-
	Butted	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
	Bladed	-	-	-	-	-
Axle fixing method	QR	15mm E-THRU	15mm E-THRU	QR	12mm E-THRU	12mm E-THRU
QR skewer length	133 mm	X	-	-	-	-
	168 mm	-	-	-	X	-
	173 mm	-	-	-	X	-
Thru Axle (Length x Inner diameter)	100 x 15 mm	-	X	-	-	-
	110 x 15 mm	-	-	X	-	-
	142 x 12 mm	-	-	-	-	X
	148 x 12 mm	-	-	-	-	X
Quick engagement	-	-	-	X (36points/360°)	X (36points/360°)	X (36points/360°)
Bearing	Stainless ball	-	X	-	-	-
	Cup	Grinding	Grinding	Grinding	Grinding	Grinding
	Cone	CBN	CBN	CBN	CBN	CBN
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	-	-	-	Contact	Contact
Internal grease sleeve	X	X	X	X	X	X
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
QR lever	Material	Aluminum	-	-	Aluminum	-
	Finish	Anodized	-	-	Anodized	-
	Color	Series color	-	-	Series color	-
QR housing	Material	Aluminum	-	-	Aluminum	-
	Finish	Anodized	-	-	Anodized	-
QR nut	Material	Resin & Steel	-	-	Resin & Steel	-
	Finish	-	-	-	-	-
Rotor lock ring	Material	-	Aluminum	Aluminum	-	-
	Finish	-	Anodized	Anodized	-	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average Weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)	809 g	766 g	814 g	986 g	1,017 g	1,020 g
Note	* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed	* Max pressure 300kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed	* Max pressure 300kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed

Wheel (Disc Brake)

Series	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.	WH-M8020-TL-F15-B-29	WH-M8020-TL-F15-B-29	WH-M8020-TL-R12-B-29	WH-M8020-TL-R12-B-29	WH-M8020-TL-F15-B-275	WH-M8020-TL-F15-B-275
Model name	WH-M8020-TL	WH-M8020-TL	WH-M8020-TL	WH-M8020-TL	WH-M8020-TL	WH-M8020-TL
Spec.	F15-B-29	F15-B-29	R12-B-29	R12-B-29	F15-B-275	F15-B-275
Color	1 Hub Shell	Series color	Series color	Series color	Series color	Series color
	1 QR	-	-	-	-	-
	2 Hub Shell	-	-	-	-	-
	2 QR	-	-	-	-	-
Front / Rear	Front	Front	Rear	Rear	Front	Front
Brake Type	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Speeds	-	-	MTB 11-speed***	MTB 11-speed***	-	-
O.L.D. (mm)	100	110	142	148	100	110
Wheel Size	622x24C (29")	622x24C (29")	622x24C (29")	622x24C (29")	584x24C (650B=27.5")	584x24C (650B=27.5")
External serration disc brake rotor lock ring	with	X	X	-	-	X
	without	-	-	-	-	-
Tire	Type	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *
	Recommended size	29x2.00-2.35	29x2.00-2.35	29x2.00-2.35	29x2.00-2.35	27.5x2.00-2.40
Rim	Height (mm)	18.8	18.8	18.8	18.8	18.8
	Width (mm)	27.9	27.9	27.9	27.9	27.9
	Rim joint	Welding	Welding	Welding	Welding	Welding
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	X	X	X	X	X
	Requires rim tape	X**	X**	X**	X**	X**
Spokes	Number	28	28	28	28	28
	Straight pull	X	X	X	X	X
	J-bend	-	-	-	-	-
	Butted	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
	Bladed	-	-	-	-	-
Axle fixing method	15mm E-THRU	15mm E-THRU	12mm E-THRU	12mm E-THRU	15mm E-THRU	15mm E-THRU
QR skewer length	133 mm	-	-	-	-	-
	168 mm	-	-	-	-	-
	173 mm	-	-	-	-	-
Thru Axle (Length x Inner diameter)	100 x 15 mm	X	-	-	-	X
	110 x 15 mm	-	X	-	-	X
	142 x 12 mm	-	-	X	-	-
	148 x 12 mm	-	-	-	X	-
Quick engagement	-	-	X (36points/360°)	X (36points/360°)	-	-
Bearing	Stainless ball	X	-	-	-	X
	Cup	Grinding	Grinding	-	Grinding	Grinding
	Cone	CBN	CBN	CBN	CBN	CBN
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	-	-	Contact	Contact	-
Internal grease sleeve	X	X	X	X	X	X
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
QR lever	Material	-	-	-	-	-
	Finish	-	-	-	-	-
	Color	-	-	-	-	-
QR housing	Material	-	-	-	-	-
	Finish	-	-	-	-	-
QR nut	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Rotor lock ring	Material	Aluminum	Aluminum	-	-	Aluminum
	Finish	Anodized	Anodized	-	-	Anodized
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average Weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)	836 g	881 g	1,085 g	1,088 g	802 g	847 g
Note	* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed	* Max pressure 300kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed	* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape

Wheel (Disc Brake)

Series		DEORE XT	DEORE XT	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-M8020-TL-R12-275	WH-M8020-TL-R12-B-275	WH-MT600-TL-F15-275	WH-MT600-TL-R12-275	WH-MT600-TL-F15-29	WH-MT600-TL-R12-29
Model name		WH-M8020-TL	WH-M8020-TL	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL
Spec.		R12-275	R12-B-275	F15-275	R12-275	F15-29	R12-29
Color	1 Hub Shell	Series color	Series color	Black	Black	Black	Black
	1 QR	-	-	-	-	-	-
	2 Hub Shell	-	-	-	-	-	-
	2 QR	-	-	-	-	-	-
Front / Rear		Rear	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
Speeds		MTB 11-speed***	MTB 11-speed***	-	8-10-speed MTB 11-speed***	-	8-10-speed MTB 11-speed***
O.L.D. (mm)		142	148	100	142	100	142
Wheel Size		584x24C (650B=27.5")	584x24C (650B=27.5")	584 x 24C (650B = 27.5 inch)	584 x 24C (650B = 27.5 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)
External serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	-	-	-	-	-	-
Tire	Type	UST / Clincher *	UST / Clincher *	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	27.5x2.00-2.40	27.5x2.00-2.40	27.5 x 2.00-2.40	27.5 x 2.00-2.40	29 x 2.00-2.40	29 x 2.00-2.40
Rim	Height (mm)	18.8	18.8	21	21	21	21
	Width (mm)	27.9	27.9	28.8	28.8	28.8	28.8
	Rim joint	Welding	Welding	Welding	Welding	Welding	Welding
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	X	X	-	-	-	-
	Requires rim tape	X**	X**	X (24-584)	X (24-584)	X (24-622)	X (24-622)
Spokes	Number	28	28	24	24	24	24
	Straight pull	X	X	X	X	X	X
	J-bend	-	-	-	-	-	-
	Butted	2.0-1.8-.2.0	2.0-1.8-2.0	2	2	2	2
	Bladed	-	-	-	-	-	-
Axle fixing method		12mm E-THRU	12mm E-THRU	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU
QR skewer length	133 mm	-	-	-	-	-	-
	168 mm	-	-	-	-	-	-
	173 mm	-	-	-	-	-	-
Thru Axle (Length x Inner diameter)	100 x 15 mm	-	-	X	-	X	-
	110 x 15 mm	-	-	-	-	-	-
	142 x 12 mm	X	-	-	X	-	X
	148 x 12 mm	-	X	-	-	-	-
Quick engagement		X (36points/360°)	X (36points/360°)	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	Grinding	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal grease sleeve		X	X	X	X	X	X
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Black	Black	Black	Black
FREEHUB body	Material	Steel	Steel	-	Steel	-	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Steel	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	-	Anodized	-
QR lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
	Color	-	-	-	-	-	-
QR housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
QR nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Rotor lock ring	Material	-	-	Steel	-	Steel	-
	Finish	-	-	Painted	-	Painted	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW
Average Weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)		1,050 g	1,053 g	875 g	1,067 g	914 g	1,106 g
Note		* Max pressure 300kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed	* Max pressure 300kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed	-	-	-	-

Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-MT600-TL-F15-B-275	WH-MT600-TL-R12-B-275	WH-MT600-TL-F15-B-29	WH-MT600-TL-R12-B-29	WH-MT500-CL-F-275	WH-MT500-CL-R-275
Model name	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL	WH-MT500-CL	WH-MT500-CL
Spec.	F15-B-275	R12-B-275	F15-B-29	R12-B-29	F-275	R-275
Color	1 Hub Shell	Black	Black	Black	Black	Black
	1 QR	-	-	-	Black	Black
	2 Hub Shell	-	-	-	-	-
	2 QR	-	-	-	-	-
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
Speeds	-	8-10-speed MTB 11-speed***	-	8-10-speed MTB 11-speed***	-	8-10 speed MTB 11-speed***
O.L.D. (mm)	110	148	110	148	100	135
Wheel Size	584 x 24C (650B = 27.5 inch)	584 x 24C (650B = 27.5 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)	584x24C (650B=27.5")	584x24C (650B=27.5")
External serration disc brake rotor lock ring	with	X	-	X	-	-
	without	-	-	-	-	-
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Clincher
	Recommended size	27.5 x 2.00-2.40	27.5 x 2.00-2.40	29 x 2.00-2.40	29 x 2.00-2.40	27.5x2.00-2.40
Rim	Height (mm)	21	21	21	21	21
	Width (mm)	28.8	28.8	28.8	28.8	29.6
	Rim joint	Welding	Welding	Welding	Welding	Sleeve
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
	Requires rim tape	X (24-584)	X (24-584)	X (24-622)	X (24-622)	X (24-584)
Spokes	Number	24	24	24	24	24
	Straight pull	X	X	X	X	-
	J-bend	-	-	-	-	X
	Butted	2	2	2	2	2.3
	Bladed	-	-	-	-	-
Axle fixing method	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU	QR	QR
QR skewer length	133 mm	-	-	-	X	-
	168 mm	-	-	-	-	X
	173 mm	-	-	-	-	X
Thru Axle (Length x Inner diameter)	100 x 15 mm	-	-	-	-	-
	110 x 15 mm	X	-	X	-	-
	142 x 12 mm	-	-	-	-	-
	148 x 12 mm	-	X	-	X	-
Quick engagement	-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	-	Contact	-	Contact	-
Internal grease sleeve	X	X	X	X	X	X
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Brass
	Finish	Black	Black	Black	Black	Black
FREEHUB body	Material	-	Steel	-	Steel	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted
Axle	Material	Aluminum	Steel	Aluminum	Steel	Steel
	Finish	Anodized	-	Anodized	-	-
QR lever	Material	-	-	-	-	Aluminum
	Finish	-	-	-	-	Painted
	Color	-	-	-	-	Black
QR housing	Material	-	-	-	-	Steel
	Finish	-	-	-	-	Painted
QR nut	Material	-	-	-	-	Resin & Steel
	Finish	-	-	-	-	-
Rotor lock ring	Material	Steel	-	Steel	-	-
	Finish	Painted	-	Painted	-	-
Reflector	JIS/CPSC	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW
	AS	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW
	DIN	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW
Average Weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)	882 g	1,082 g	921 g	1,121 g	962 g	1,147 g
Note	-	-	-	-	-	*** CP is available only for 9 & 10-speed

Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-MT500-CL-F15-F275	WH-MT500-CL-R12-F275	WH-MT500-CL-F15-B-275	WH-MT500-CL-R12-B-275	WH-MT500-CL-F-29	WH-MT500-CL-R-29
Model name	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL
Spec.	F15-F275	R12-F275	F15-B-275	R12-B-275	F-29	R-29
Color	1 Hub Shell	Black	Black	Black	Black	Black
	1 QR	-	-	-	Black	Black
	2 Hub Shell	-	-	-	-	-
	2 QR	-	-	-	-	-
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
Speeds	-	8-10 speed MTB 11-speed***	-	8-10 speed MTB 11-speed***	-	8-10 speed MTB 11-speed***
O.L.D. (mm)	100	142	110	148	100	135
Wheel Size	584x24C (650B=27.5")	584x24C (650B=27.5")	584x24C (650B=27.5")	584x24C (650B=27.5")	622x24C	622x24C
External serration disc brake rotor lock ring	with	X	-	X	-	-
	without	-	-	-	-	-
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size	27.5x2.00-2.40	27.5x2.00-2.40	27.5x2.00-2.40	27.5x2.00-2.40	29x2.00-2.40
Rim	Height (mm)	21	21	21	21	21
	Width (mm)	29.6	29.6	29.6	29.6	29.6
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
Requires rim tape	X (24-584)	X (24-584)	X (24-584)	X (24-584)	X (24-622)	X (24-622)
Spokes	Number	24	24	24	24	24
	Straight pull	-	-	-	-	-
	J-bend	X	X	X	X	X
	Butted	2.3	2.3	2.3	2.3	2.3
Bladed	-	-	-	-	-	-
Axle fixing method	15mm E-THRU	12mm E-THRU	15mm E-THRU	12mm E-THRU	QR	QR
QR skewer length	133 mm	-	-	-	X	-
	168 mm	-	-	-	-	X
	173 mm	-	-	-	-	X
Thru Axle (Length x Inner diameter)	100 x 15 mm	X	-	-	-	-
	110 x 15 mm	-	-	X	-	-
	142 x 12 mm	-	X	-	-	-
	148 x 12 mm	-	-	-	X	-
Quick engagement	-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	-	Contact	-	Contact	-
Internal grease sleeve	X	X	X	X	X	X
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass
	Finish	Black	Black	Black	Black	Black
FREEHUB body	Material	-	Steel	-	Steel	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Axle	Material	Aluminum	Steel	Aluminum	Steel	Steel
	Finish	Anodized	-	Anodized	-	-
QR lever	Material	-	-	-	Aluminum	Aluminum
	Finish	-	-	-	Painted	Painted
	Color	-	-	-	Black	Black
QR housing	Material	-	-	-	Steel	Steel
	Finish	-	-	-	Painted	Painted
QR nut	Material	-	-	-	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-
Rotor lock ring	Material	Steel	-	Steel	-	-
	Finish	Painted	-	Painted	-	-
Reflector	JIS/CPSC	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW
	AS	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW
	DIN	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW
Average Weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)	936 g	1,133 g	946 g	1,145 g	1,013 g	1,200 g
Note	-	*** CP is available only for 9 & 10-speed	-	*** CP is available only for 9 & 10-speed	-	-

- SL
- SLMT
- SMS
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- Q-DECK

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-MT500-CL-F15-29	WH-MT500-CL-R12-29	WH-MT500-CL-F15-B-29	WH-MT500-CL-R12-B-29	WH-MT15-A-F15-275
Model name		WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT15-A
Spec.		F15-29	R12-29	F15-B-29	R12-B-29	F15-275
Color	1 Hub Shell	Black	Black	Black	Black	Black
	1 QR	-	-	-	-	Black
	2 Hub Shell	-	-	-	-	White
	2 QR	-	-	-	-	Black
Front / Rear		Front	Rear	Front	Rear	Front
Brake Type		CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Speeds		-	8-10 speed MTB 11-speed***	-	8-10 speed MTB 11-speed***	-
O.L.D. (mm)		100	142	110	148	100
Wheel Size		622x24C	622x24C	622x24C	622x24C	584x19C (650B=27.5")
External serration disc brake rotor lock ring	with	X	-	X	-	X
	without	-	-	-	-	-
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size	29x2.00-2.40	29x2.00-2.40	29x2.00-2.40	29x2.00-2.40	27.5x1.90-2.25
Rim	Height (mm)	21	21	21	21	21
	Width (mm)	29.6	29.6	29.6	29.6	24.6
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
Requires rim tape		X (24-622)	X (24-622)	X (24-622)	X (24-622)	X (20-584)
Spokes	Number	24	24	24	24	28
	Straight pull	-	-	-	-	-
	J-bend	X	X	X	X	X
	Butted	2.3	2.3	2.3	2.3	2.0
Bladed		-	-	-	-	X
Axle fixing method		15mm E-THRU	12mm E-THRU	15mm E-THRU	12mm E-THRU	15mm E-THRU
QR skewer length	133 mm	-	-	-	-	-
	168 mm	-	-	-	-	-
	173 mm	-	-	-	-	-
Thru Axle (Length x Inner diameter)	100 x 15 mm	X	-	-	-	X
	110 x 15 mm	-	-	X	-	-
	142 x 12 mm	-	X	-	-	-
	148 x 12 mm	-	-	-	X	-
Quick engagement		-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	-	Contact	-	Contact	-
Internal grease sleeve		X	X	X	X	X
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized (Black rim)/ Painted (White rim)
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass
	Finish	Black	Black	Black	Black	Silver
FREEHUB body	Material	-	Steel	-	Steel	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Axle	Material	Aluminum	Steel	Aluminum	Steel	Aluminum
	Finish	Anodized	-	Anodized	-	Anodized
QR lever	Material	-	-	-	-	-
	Finish	-	-	-	-	-
	Color	-	-	-	-	-
QR housing	Material	-	-	-	-	-
	Finish	-	-	-	-	-
QR nut	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Rotor lock ring	Material	Steel	-	Steel	-	Steel
	Finish	Painted	-	Painted	-	Painted
Reflector	JIS/CPSC	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW
	AS	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW
	DIN	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW
Average Weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)		988 g	1,186 g	998 g	1,199 g	995 g/Black 1,000 g/White
Note		-	-	-	-	-

CI-DECK

Series	CI-DECK	CI-DECK	CI-DECK	CI-DECK	CI-DECK	CI-DECK
Model no.	ID-CI300-7R	ID-CI300-6R	ID-CI300-LC	ID-CI400	SM-CI300	SM-CI301
Compatible shifting lever	SL-RS34/35/36/45/47	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 DISPLAY	Front	-	-	-	-	-
	Rear	7-speed	6-speed	-	-	-
Clamp band diameter (mm)	22.2	-	-	-	-	-
	25	-	-	-	-	-
	22.2 / 25.0	-	-	-	X	-
CI-DECK upper cover	Material	Resin	Resin	Resin	-	-
	Color	Painted	Painted	Painted	-	-
CI-DECK body	Material	Resin	Resin	Resin	-	-
	Color	-	-	-	-	-
Clamp band	Material	-	-	-	Resin	-
	Color	-	-	-	-	-
Note	Use with SM-CI300	Use with SM-CI300	Accessory cover, Use with SM-CI300	Analog compass use with SM-CI300	Bracket for ID-CI300/ID-CI400/SC-CI300	Cowling Use with SM-CI300



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ARCHIVE

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Shifting Lever

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

Brake Lever (Hydraulic disc brake)

Series		DEORE XT	DEORE	SHIMANO
Model no.		BL-T8000	BL-T6000	BL-T445
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (Finger)		3	3	3
Color	1	Series color	Series black	Black
	2	-	Series silver	Silver
	3	-	Black (SHIMANO logo)*	White
Brake hose (Kit)		SM-BH90-SBM	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black
	2	-	-	White
J-Kit spec (for OEM)		X	X	X
Recommended brake caliper		BR-M8000	BR-M6000	BR-M446
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		X	X	X
Reach adjust	Toolless	X	-	-
	Tool	-	X	X
Free stroke adjust		-	-	-
SERVOWAVE mechanism		-	-	-
Clamp band	Open clamp	X	X	-
	I-SPEC II	X	X	-
	I-SPEC	-	-	-
Clamp bolt	Material	Stainless steel	Stainless steel	Steel
	Finish	-	-	Plated
Brake lever	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum	Aluminum
	Finish	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**	-	-
Note		** single item weight	J-Kit spec available * T6000 kit only	

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Brake Lever

Series		DEORE XT	DEORE	DEORE	SHIMANO	SHIMANO
Model no.		BL-T780-B	BL-T610	BL-T611	BL-T4000	BL-T4010
Color	1	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-
Compatible brake type	V-BRAKE	X*	X	X*	X	X*
	Mechanical disc brake (MTB)	X*	X	X*	X	X*
	Mechanical disc brake (Road)	-	-	-	-	-
	Caliper (NEW SUPER SLR)	-	-	-	-	-
	Caliper (super SLR)	-	-	-	-	-
	Cantilever brake	-	-	-	-	-
	Roller brake	-	-	-	-	-
Recommended POWER MODULATOR	V-BRAKE	SM-PM70	-	SM-PM70	-	SM-PM40
	Mechanical disc brake (MTB)	SM-PM50	-	SM-PM50	-	SM-PM50
Clamp band	Open clamp band	X	X	X	-	-
	I-SPEC	X**	X**	X**	-	-
	Diameter (mm)	22.2	22.2	22.2	22.2	22.2
Internal bumper stop		X	X	X	X	X
Lever size (Finger)		3	2	3	2	3
Brake cable type		T-type	T-type	T-type	T-type	T-type
Power adjuster		-	-	-	-	-
SERVOWAVE		-	-	-	-	-
Reach adjust		X	X	X	X	X
Cable adjust		X	X	X	X	X
Cable adjust type		One Hand	Two hand	Two hand	Two hand	Two hand
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Stainless clamp bolt		X	X	X	X	X
Average weight (pair)		196.6 g	-	-	-	-
Note		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

Rear Derailleur

Series		DEORE XT	DEORE	ALIVIO	ACERA
Model no.		RD-T8000-SGS	RD-T6000-SGS	RD-T4000	RD-T3000
Pulley cage		SGS	SGS	SGS	SGS
Color	1	Series color	Series black	Black	Black
	2	-	Series silver	Silver	Silver
Rear speeds		10	10	9	9
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
Top-Normal spring type	SHIMANO SHADOW RD	X	X	-	-
	SHIMANO SHADOW RD+	-	-	-	-
	Double servo	-	-	X	X
Mount	Direct attachment (Conventional)	X	X	X	X
	Direct mount compatible	X*	X*	-	-
	Riveted adapter (Road type)	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-
Mode converter		-	-	-	-
Cable adjuster		-	-	X	X
Max. front difference		22T	22T	22T	22T
Total capacity		47T	47T	45T	45T
Low sprocket	Max.	36T	36T	34T	34T
	Min.	32T	32T	28T	28T
Top sprocket	Max.	11T	11T	11T	11T
	Min.	11T	11T	11T	11T
Fluoric coated link bushings		4	3	2	1
Pulley	G pulley bearing	Sealed Bearing	-	-	-
	T pulley bearing	Sealed Bearing	-	-	-
	Teeth	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Steel	Steel
	Sunken type pulley bolt	X	X	X	X
Bracket	Material	Aluminum	Steel	-	-
	Finish	Painted	Painted	-	-
B-Axle	Hollow axle	X	X	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-
B-Axle 2	Hollow axle	X	X	-	-
	Material	Stainless steel	Stainless steel	-	-
	Finish	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
P-Axle	Material	Steel	Steel	Steel	Steel
	Finish	-	-	Painted	Painted
Plate body	Material	Aluminum	GFRP	Resin	Resin
	Finish	Painted	-	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Outer plate	Material	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Cable fixing Bolt	Material	Stainless steel	Steel	Stainless steel	Stainless steel
	Finish	Plated	Plated	-	-
Stroke Adjusting Screw	Material	Steel	Steel	Stainless steel	Steel
	Finish	Plated	Plated	-	Plated
Average weight (pc)		253 g	-	-	-
Note		*Possible to attach to Direct Mount in case bracket is removed.	*Possible to attach to Direct Mount in case bracket is removed.		

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Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE	DEORE	DEORE	
Model no.		FD-T8000-H-3	FD-T8000-L-3	FD-T8000-L-6	FD-T6000-H3	FD-T6000-L3	FD-T6000-L6	
Color	1	Series color	Series color	Series color	Series black	Series black	Series black	
	2	-	-	-	Series silver	Series silver	Series silver	
Speeds	Front	3	3	3	3	3	3	
	Rear	10	10	10	10	10	10	
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	
Action	TOP SWING	-	X	X	-	X	X	
	Down Swing	X	-	-	X	-	-	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp Band	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)	
		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)	
		34.9 mm	X	X	X	X	X	
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	-	-	-	-
	Direct Mount	-	-	-	-	-	-	
Cable route type	Dual-Pull	X	X	X	X	X	X	
	Top-Pull exclusive	-	-	-	-	-	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	-	-	-	
Chainline (mm)		50	50	50	50	50	50	
Chain stay angle		63-66	63-66	66-69	63-66	63-66	66-69	
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		-	-	-	-	X	X	
Angled stroke adjust bolt		-	-	-	-	-	-	
Angled clamp band design		X	X	X	-	-	-	
Link bushings		8	2	2	8	2	2	
Front clamp band	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Steel	Steel	Aluminum	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Plated	Plated	Plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		169 g	155 g	155 g	-	-	-	
Note		*S-size adapter is available only OTC package	*S-size adapter is available only OTC package	*S-size adapter is available only OTC package				

Front Derailleur

Series		ALIVIO	ALIVIO	ALIVIO	ACERA	ACERA	
Model no.		FD-T4000-TS3	FD-T4000-TS6	FD-T4000-DS3	FD-T3000-TS3	FD-T3000-TS6	
Color	1	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	
	Rear	9	9	9	9	9	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	
Action	TOP SWING	X	X	-	X	X	
	Down Swing	-	-	X	-	-	
	SIDE SWING	-	-	-	-	-	
Mount	Clamp Band	28.6 mm	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)	
		34.9 mm	X	X	X	X	X
	E-type	With BB Plate	-	-	-	-	-
		Without BB Plate	-	-	-	-	-
Direct Mount	-	-	-	-	-		
Cable route type	Dual-Pull	X	X	X	X	X	
	Top-Pull exclusive	-	-	-	-	-	
	Down-Pull exclusive	-	-	-	-	-	
	Front-Pull	-	-	-	-	-	
Chainline (mm)		50	50	50	50	50	
Chain stay angle		63-66	66-69	63-66	63-66	66-69	
Top gear teeth		44/48T	44/48T	44/48T	44/48T	44/48T	
Total capacity		22T	22T	22T	22T	22T	
Applicable Top-Mid tooth difference		12T	12T	12T	12T	12T	
Multi access cable fixing bolt		-	-	-	-	-	
Angled stroke adjust bolt		-	-	-	-	-	
Angled clamp band design		X	X	X	X	X	
Link bushings		-	-	2	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Outer link	Material	Steel	Steel	Aluminum	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Aluminum	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	
	Finish	-	-	-	Zinc plated	Zinc plated	
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	
Note							

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Brake (V-BRAKE)

Series		DEORE XT	DEORE	SHIMANO	SHIMANO
Model no.		BR-T780	BR-T610	BR-T4000	BR-T4010
Color	1	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver
	3	-	-	-	-
Brake type		V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE
Brake shoe	Standard 1	S70C	S70C	S65T	S70C
	Standard 2	M70CT4	M70CT4	-	-
	Option 1	-	S70T	M65T4	M70R2
	Option 2	-	-	M65T3	-
Cartridge shoe holder		X	X	-	X (alloy)
Arch size (mm)		103	107	107	107
Spacer type	X type	X	X	X	X
	Y type	X	X	X	X
Compatible lead pipe angle (deg.)		45/90/135	45/90/135	45/90/135	45/90/135
Sleeve & Bushing axle		X	X	X	X
V-arm/Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted
	Light weight link	X	-	-	-
Cover	Material	Aluminum	Aluminum	-	-
	Finish	Anodized	Painted	-	-
Fixing bolt length (mm)	16	X	X	X	X
	25	X	X	X	X
Fixing bolt	Material	Stainless steel	Steel	Steel	Steel
	Finish	Plated	Plated	Zn plated	Zn plated
	Chamfered bolt	X	X	-	-
POWER MODULATOR		X (OPTION SM-PM70)	SM-PM70	SM-PM40	SM-PM40
Linear spring		X	X	X	X
Stainless cable fixing bolt		X	-	-	-
Average weight		174 g	-	-	-
Note					

Front Chainwheel

Series		DEORE XT	DEORE	SHIMANO	SHIMANO	ALIVIO	SHIMANO
Model no.		FC-T8000	FC-T6010	FC-T551	FC-T521	FC-T4060	FC-T4010
Color	1	Series color	Series black	Black	Black	Black	Black
	2	-	Series silver	Silver	Silver	Silver	Silver
Rear speeds		10	10	10	10	9	9
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG for 9-speed	HG for 9-speed
Chainline (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
Chaining combination		48-36-26T	48-36-26T	48-36-26T 44-32-24T	48-36-26T 44-32-24T	48-36-26T 44-32-22T	48-36-26T 44-32-22T
Q-factor (mm)		176	181.5	181.1	185.8	181.7	187.8
Crank arm length (mm)	165.0	-	-	-	-	X	X
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	X	X	X	X	X	X
	Without chain / bash guard	-	-	X	X	X	X
HOLLOWTECH II		X	X	-	-	-	-
2-PIECE CRANKSET		-	-	X	-	X	-
HOLLOWTECH crank arm		-	-	-	X	-	-
OCTALINK		-	-	-	X	-	X
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	X	-	X	-
	OCTALINK	-	-	-	X	-	X
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	BB-MT800	SM-BB52	SM-BB52	BB-ES300	SM-BB52	BB-ES300
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	SM-BB52	SM-BB52	BB-ES300-AK	SM-BB52	BB-ES300-AK
	Pressfit	BB-MT800-PA	BB-MT500-PA	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	121-AK	-	126
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	121-AK	-	126-K
Threaded BB shell width	68mm	X	X	X	X	X	X
	73mm	X	X	X	X	X	X
	83mm	-	-	-	-	-	-
Chain case compatible		-	X	X	X	X	X
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	-	Steel	-
	Finish	Plated	Plated	Plated	-	Plated	-
Spider arm	Material	Aluminum	Aluminum	-	Aluminum	-	Aluminum
	Finish	Painted	Painted	-	Painted	-	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Middle ring	Material	Aluminum	Steel	Aluminum (48-36-26T) Steel +GF composite (44-32-24T)	Steel (48-36-26T) Steel +GF composite (44-32-24T)	Steel	Steel
	Finish	Plated	Painted	Plated	Painted	Painted	Painted
Inner ring	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Painted	Plated	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	X	X	X	X	X
Crank fixing bolt included		X	X	X	X	X	X
Average weight (175mm, w/o BB)		868 g (48-36-26T)	-	-	-	-	-
Note							

Front Chainwheel

Series		SHIMANO
Model no.		FC-T3010
Color	1	Black
	2	Silver
Rear speeds		9
Compatible chain		HG for 9-speed
Chainline (mm)		50
P.C.D. (mm)		104/64
Gear arms		4arm
Chaining combination		48-36-26T 44-32-22T
Q-factor (mm)		187.3
Crank arm length (mm)	165.0	X
	167.5	-
	170.0	X
	172.5	-
	175.0	X
	177.5	-
Optional chain guard	With bash guard	-
	With chain guard	X
	Without chain / bash guard	X
HOLLOWTECH II		-
2-PIECE CRANKSET		-
HOLLOWTECH crank arm		-
OCTALINK		-
HOLLOWGLIDE		-
Compatible BB type	Outboard	-
	OCTALINK	-
	Square	X
Recommended BB	Threaded (normal)	BB-UN26
	Threaded (E-type)	-
	Threaded (chain case)	BB-UN26-K
	Pressfit	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	LL123
	Threaded (E-type)	-
	Threaded (chain case)	LL123-K
Threaded BB shell width	68mm	X
	73mm	X
	83mm	-
Chain case compatible		X
Crank arm	Material	Aluminum
	Finish	Painted
Crank axle	Material	-
	Finish	-
Spider arm	Material	-
	Finish	-
Spider arm cover	Material	-
	Finish	-
Outer ring	Material	Steel
	Finish	Painted
Middle ring	Material	Steel
	Finish	Painted
Inner ring	Material	Steel
	Finish	Painted
Outer / middle ring fixing bolt	Material	Stainless steel
	Finish	-
Inner ring fixing bolt	Material	Stainless steel
	Finish	-
Stainless chain guard fixing bolt		- (48-36-26T) X (44-32-22T)
Crank fixing bolt included		X
Average weight (175mm, w/o BB)		-
Note		

Front Hub (Rim/Disc Brake)

Series		DEORE XT	DEORE	SHIMANO	SHIMANO
Model no.		HB-T780	HB-T610	HB-T4000	HB-T3000
Color	1 Hub Shell	Black	Black	Black	Black
	1 QR	Black	Black	Black	Black
	2 Hub Shell	Silver	Silver	Silver	Silver
	2 QR	Black	Black	Black	Black
Brake Type		Rim brake	Rim brake	Rim brake	Rim brake
O.L.D. (mm)		100	100	100	100
Spoke hole	28H	-	-	-	-
	32H	X	X	X	X
	36H	X	X	X	X
External serration rotor lock ring	with	-	-	-	-
	without	-	-	-	-
CENTER LOCK mount cover option		-	-	-	-
Axle fixing method		QR	QR	QR	QR
QR skewer length	129 mm	-	-	-	-
	133 mm	X	X	X	X
Thru Axle (Length x Inner diameter)	100 x 15 mm	-	-	-	-
	110 x 15 mm	-	-	-	-
	110 x 20 mm	-	-	-	-
Flange distance (mm)		71.6	71.6	71.6	71.6
Offset (mm)		0	0	0	0
P.C.D. Left / Right (mm)		40	40/40	38/38	38/38
Flange diameter (mm)		50.4	48.4	48.4	48.4
Seal		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact
Internal grease sleeve		X	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	-	-	-	-
	Cone	CBN	CBN	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Steel	Steel	Steel
	Finish	Anodized	-	-	-
QR lever	Material	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Painted	Barrel	Plated
QR housing	Material	Aluminum	Aluminum	Steel	Steel
	Finish	Anodized	Painted	Plated	Plated
QR nut	Material	Resin & steel	Resin & steel	Resin & steel	Resin & steel
	Finish	-	-	-	-
Rotor lock ring	Material	-	-	-	-
	Finish	-	-	-	-
Average weight		153 g	-	-	-
Note					

SL

BL

BL

RD

FD

BR

FC

HB

FH

FREEHUB (Rim/Disc Brake)

Series		DEORE XT	DEORE	SHIMANO	SHIMANO
Model no.		FH-T780	FH-T610	FH-T4000	FH-T3000
Color	1 Hub Shell	Black	Black	Black	Black
	1 QR	Black	Black	Black	Black
	2 Hub Shell	Silver	Silver	Silver	Silver
	2 QR	Black	Black	Black	Black
Brake Type		Rim	Rim	Rim	Rim brake
Speeds		8-10 speed	8-10 speed	8/9 speed	8/9 speed
O.L.D. (mm)		135	135	135	135
Spoke hole	28H	-	-	-	-
	32H	X	X	X	X
	36H	X	X	X	X
External serration rotor lock ring	with	-	-	-	-
	without	-	-	-	-
Internal serration rotor lock ring	with	-	-	-	-
	without	-	-	-	-
CENTER LOCK mount cover option		-	-	-	-
Axle fixing method		QR	QR	QR	QR
QR skewer length	166 mm	-	-	-	X
	168 mm	X	X	X	-
	170 mm	-	-	-	X
	173 mm	X	X	X	-
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	-	-	-
	135 x 12 mm	-	-	-	-
	142 x 12 mm	-	-	-	-
	148 x 12 mm	-	-	-	-
	150 x 12 mm	-	-	-	-
Flange distance (mm)		57.4	59.2	59.2	59.2
Offset (mm)		6.6	7.8	7.6	7.5
P.C.D. Left/Right (mm)		44/45	44/45	45/45	45/45
Flange diameter Left/Right (mm)		52.8/53.8	53.8	53.8	53.8
Quick engagement		X (36points/360°)	-	-	-
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact
	FREEHUB body	Contact	Contact	Contact	-
Internal grease sleeve		X	X	X	-
Bearing	Stainless ball	-	-	-	-
	Cup	-	-	-	-
	Cone	CBN	CBN	CBN	-
FREEHUB body	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Steel	Steel	Steel
	Finish	Anodized	-	-	-
QR lever	Material	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Painted	Barrel	Plated
QR housing	Material	Aluminum	Aluminum	Steel	Steel
	Finish	Anodized	Painted	Plated	Plated
QR nut	Material	Resin & Steel	Resin & Steel	Resin + Steel	Steel + Resin
	Finish	-	-	-	-
Rotor lock ring	Material	-	-	-	-
	Finish	-	-	-	-
Average weight* *w/o axle, QR nor lockring		338 g	-	-	-
Note					

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Brake Lever	126	BL
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Internal Geared Hub

Series		ALFINE	ALFINE	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-S7001-11	SG-S7001-8	SG-C7000-5V	SG-C7000-5R	SG-C7000-5C	SG-C7000-5D
Function name		INTER-11	INTER-8	INTER-5E	INTER-5E	INTER-5E	INTER-5E
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Brake Type	Mount Type	CENTER LOCK disc brake	CENTER LOCK disc brake	V-BRAKE	INTER-M	Coaster Brake	CENTER LOCK disc brake
	Recommended Model	-	BR-S700	-	BR-C6000 BR-C3010 BR-C3000	-	-
Speeds		11	8	5	5	5	5
Gear ratio	Total	409%	307%	263%	263%	263%	263%
	1	0.527	0.527	1	1	1	1
	2	0.681	0.644	1.277	1.277	1.277	1.277
	3	0.770	0.748	1.622	1.622	1.622	1.622
	4	0.878	0.851	2.07	2.07	2.07	2.07
	5	0.995	1	2.63	2.63	2.63	2.63
	6	1.134	1.223	-	-	-	-
	7	1.292	1.419	-	-	-	-
	8	1.462	1.615	-	-	-	-
	9	1.667	-	-	-	-	-
	10	1.888	-	-	-	-	-
11	2.153	-	-	-	-	-	
Shifting structure		Top Normal	Top Normal	Top Normal	Top Normal	Top Normal	Top Normal
Silent clutch		X	X	X	X	X	X
Gear change support mechanism		X	X	X	X	X	X
Shifting POWER MODULATOR		X	X	X	X	X	X
Driving efficiency		High	High	High	High	High	High
w/ Left hand dust cap		-	-	X	-	-	-
O.L.D. (mm)		135	135	135	135	135	135
Spoke size		#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14
Spoke hole	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	-	-	-
	184	-	-	-	-	-	-
	187	X	X	X	X	X	X
	193	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Flange distance (mm)		57.3	57.3	58.3	58.3	58.3	57.3
Flange diameter (mm)		104.3	104.3	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset (mm)		3.15	3.15	2.7	3.7	3.7	3.4
P.C.D Left / Right. (mm)		92.6	92.6	92.6	92.6	92.6	92.6
Hub shell	material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Average Weight		1,665 g	1,670 g	1,670 g	1,670 g	1,970 g	1,650 g
Note		-	-	-	-	-	-

Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-C6011-8V	SG-C6011-8R	SG-C6001-8V	SG-C6001-8R	SG-C6001-8C	SG-C6001-8D
Function name		INTER-8	INTER-8	INTER-8	INTER-8	INTER-8	INTER-8
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Brake Type	Mount Type	V-BRAKE	INTER-M	V-BRAKE	INTER-M	Coaster Brake	CENTER LOCK disc brake
	Recommended Model	-	BR-C6000 BR-C3010 BR-C3000	-	BR-C6000 BR-C3010 BR-C3000	-	-
Speeds		8	8	8	8	8	8
Gear ratio	Total	307%	307%	307%	307%	307%	307%
	1	0.527	0.527	0.527	0.527	0.527	0.527
	2	0.644	0.644	0.644	0.644	0.644	0.644
	3	0.748	0.748	0.748	0.748	0.748	0.748
	4	0.851	0.851	0.851	0.851	0.851	0.851
	5	1	1	1	1	1	1
	6	1.223	1.223	1.223	1.223	1.223	1.223
	7	1.419	1.419	1.419	1.419	1.419	1.419
	8	1.615	1.615	1.615	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	X	X	X	X	X
Gear change support mechanism		X	X	X	X	X	X
Shifting POWER MODULATOR		X	X	X	X	X	X
Driving efficiency		High	High	Standard	Standard	Standard	Standard
w/ Left hand dust cap		X	-	X	-	-	-
O.L.D. (mm)		132	132	132	132	132.3	135
Spoke size		#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14
Spoke hole	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
	Others	-	40H	-	40H	-	-
Axle length (mm)	182	-	-	-	-	-	-
	184	X	X	X	X	X	-
	187	-	-	-	-	-	X
	193	-	-	-	-	-	-
	Others	-	-	203	203	-	-
Flange distance (mm)		58.3	58.3	58.3	58.3	58.3	57.3
Flange diameter (mm)		105.2	105.2	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset (mm)		2.7	2.7	2.7	2.7	2.55	3.4
P.C.D Left / Right. (mm)		92.6	92.6	92.6	92.6	92.6	92.6
Hub shell	material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	finish	Painted	Painted	Painted	Painted	Painted	Painted
Average Weight		1,685 g	1,660 g	1,735 g	1,710 g	2,040 g	1,730 g
Note		-	-	-	-	-	-

SG

CT

CS

SL

SB

BL

BL

BR

BR

FC

HB

FH

FH

HP

EW

Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-C6001-8CD	SG-C3001-7R	SG-C3001-7C	SG-C3001-7C-DX	SG-C3001-7D	SG-5R30
Function name		INTER-8	INTER-7	INTER-7	INTER-7	INTER-7	INTER-5
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	-
	3	-	-	-	-	-	-
Brake Type	Mount Type	Coaster and Special disc brake mount for SM-RTC60	INTER-M	Coaster Brake	Coaster Brake	CENTER LOCK disc brake	INTER-M
	Recommended Model	-	BR-C3010 BR-C3000	-	-	-	BR-C3010 BR-C3000 BR-IM31 (specification for Japan)
Speeds		8	7	7	7	7	5
Gear ratio	Total	307%	244%	244%	244%	244%	206%
	1	0.527	0.632	0.632	0.632	0.632	0.750
	2	0.644	0.741	0.741	0.741	0.741	1.001
	3	0.748	0.843	0.843	0.843	0.843	1.159
	4	0.851	0.989	0.989	0.989	0.989	1.335
	5	1	1.145	1.145	1.145	1.145	1.545
	6	1.223	1.335	1.335	1.335	1.335	-
	7	1.419	1.545	1.545	1.545	1.545	-
	8	1.615	-	-	-	-	-
	9	-	-	-	-	-	-
	10	-	-	-	-	-	-
11	-	-	-	-	-	-	
Shifting structure		Low Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal
Silent clutch		X	-	-	-	-	X
Gear change support mechanism		X	-	-	-	-	-
Shifting POWER MODULATOR		X	-	-	-	-	-
Driving efficiency		Standard	Standard	Standard	Standard	Standard	Standard
w/ Left hand dust cap		-	-	-	-	-	-
O.L.D. (mm)		135	130	127	127	135	132
Spoke size		#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14
Spoke hole	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	X	-	-	-	-
	184	-	-	-	X	-	X
	187	X	-	-	-	X	-
	193	-	-	-	-	-	-
	Others	-	201	175.5	175.5	-	210/215
Flange distance (mm)		58.3	54.6	56.2	56.2	54.6	54.6
Flange diameter (mm)		105.2	99.6	92.5	92.5	99.6	86
Flange width (mm)	Right	3.2	3.2	2.3	2.3	3.2	2.3
	Left	3.2	3.2	2.7	2.7	3.2	2.5
Offset (mm)		2.7	3.85	4.6	4.6	2.5	0.3
P.C.D Left / Right. (mm)		92.6	87	83.5	83.5	87	76
Hub shell	material	Aluminum	Aluminum	Steel	Steel	Aluminum	Steel
	finish	Painted	Painted	Plated	Plated+ Painted(clear)	Painted	Plated
Average Weight		2,090 g	1,495 g	1,915 g	1,915 g	1,470 g	1,305 g
Note		-	-	-	-	-	*Japan market only

Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-5R30-VS	SG-5R35-VS	SG-3R75-B	SG-3R40	SG-3R42	SG-3C41
Function name		INTER-5	INTER-5	INTER-3	INTER-3	INTER-3	INTER-3
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	-	Black	-	-	-	-
	3	-	-	-	-	-	-
Brake Type	Mount Type	V-BRAKE	V-BRAKE	INTER-M	INTER-M	INTER-M	CENTER LOCK disc brake
	Recommended Model	-	-	BR-C3010 BR-C3000 BR-IM31 (specification for Japan)	BR-C3010 BR-C3000 BR-IM31 (specification for Japan)	BR-C3010 BR-C3000 BR-IM31 (specification for Japan)	-
Speeds		5	5	3	3	3	3
Gear ratio	Total	206%	206%	158%	186%	186%	186%
	1	0.750	0.750	0.632	0.733	0.733	0.733
	2	1.001	1.001	0.741	1.000	1.000	1.000
	3	1.159	1.159	1.000	1.360	1.360	1.360
	4	1.335	1.335	-	-	-	-
	5	1.545	1.545	-	-	-	-
	6	-	-	-	-	-	-
	7	-	-	-	-	-	-
	8	-	-	-	-	-	-
	9	-	-	-	-	-	-
	10	-	-	-	-	-	-
11	-	-	-	-	-	-	
Shifting structure		Low Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal
Silent clutch		X	X	X	-	-	-
Gear change support mechanism		-	-	-	X	X	X
Shifting POWER MODULATOR		-	-	-	X	X	X
Driving efficiency		Standard	Standard	HIGH	Standard	Standard	Standard
w/ Left hand dust cap		X	X	-	120/127/130	-	120/127
O.L.D. (mm)		132	132	122	120.4/126.8	120	120/127.4
Spoke size		#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14
Spoke hole	28H	-	-	-	X	X	X
	32H	X	X	-	X	-	-
	36H	X	X	X	X	X	X
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	X	X	-
	184	X	X	-	X	-	-
	187	-	-	-	-	-	-
	193	-	-	X	-	-	-
	Others	210	-	174/198/200	170/177/189/192	192	168/175/178
Flange distance (mm)		54.6	54.6	51.1	53	53	57.5
Flange diameter (mm)		86	86	92.5	84	70	67.5
Flange width (mm)	Right	2.3	2.3	2.3	2.3	3.0	2.3
	Left	2.5	2.5	2.7	2.3	3.0	2.3
Offset (mm)		0.3	0.3	3.6	0.8	0.8	1.2
P.C.D Left / Right. (mm)		76	76	83.5	74	60	59
Hub shell	material	Steel	Aluminum	Steel	Steel	Steel	Steel
	finish	Plated	Painted	Plated	Plated	Plated	Plated
Average Weight		1,330 g	1,255 g	1,315 g	885 g	872 g	1,120 g
Note		*Japan market only	*Japan market only	-	-	Specification for Japan market	-

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Internal Geared Hub

Series		NEXUS
Model no.		SG-3D55
Function name		INTER-3
Color	1	Silver
	2	Black
	3	-
Brake Type	Mount Type	CENTER LOCK disc brake
	Recommended Model	-
Speeds		3
Gear ratio	Total	186%
	1	0.733
	2	1.000
	3	1.360
	4	-
	5	-
	6	-
	7	-
	8	-
	9	-
	10	-
11	-	
Shifting structure		Low Normal
Silent clutch		X
Gear change support mechanism		X
Shifting POWER MODULATOR		X
Driving efficiency		Standard
w/ Left hand dust cap		-
O.L.D. (mm)		135
Spoke size		#13 / #14
Spoke hole	28H	-
	32H	X
	36H	X
	Others	-
Axle length (mm)	182	-
	184	-
	187	-
	193	X
	Others	-
Flange distance (mm)		53.5
Flange diameter (mm)		77.6
Flange width (mm)	Right	3.2
	Left	3.2
Offset (mm)		1.67
P.C.D Left / Right. (mm)		65
Hub shell	material	Aluminum
	finish	Painted
Average Weight		945 g
Note		-

Chain Tensioner

Series		ALFINE	ALFINE
Model no.		CT-S500	CT-S510
Color	1	Silver	-
	2	Black	-
	3	-	Silver&Black
Speeds		Single	Single
Compatible chain		CN-HG93 CN-HG71 CN-HG53	CN-HG73 (CS-S500) CN-HG53 (CS-S500) CN-HG71 (SM-GEAR)
Compatible cassette sprocket		CS-S500	CS-S500 SM-GEAR
Max. front difference		16T	-
Max. rear sprocket		20T	20T (CS-S500) 23T (SM-GEAR)
Min. rear sprocket		18T	18T (CS-S500) 16T (SM-GEAR)
Dropout		Vertical drop end type	Vertical drop end type
Direct attachment		-	-
Structure		Double pulley	Single pulley
Tensioner arm	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Note			

Cassette Sprocket

Series		ALFINE	NEXUS
Model no.		CS-S500	CS-C7000
Chain Guard	with	X	X
	without	X	X
Gear teeth	14T	-	-
	16T	-	-
	17T	-	-
	18T	X (w/ and w/o guard)	-
	19T	-	-
	20T	X (w/ and w/o guard)	-
	21T	-	-
	22T	-	-
	23T	-	-
	24T	-	X
	27T	-	X
30T	-	X	
Gear thickness (mm)		2.0	2.3
Recommended chain	Super Narrow HG-X 10-speed	X	-
	Super Narrow HG 9-speed	X	-
	HG 8-speed (1/2 inch x 3/32 inch)	-	X
	1/2 inch x 1/8 inch	-	-
Gear	Material	Steel	Steel
	Finish	Chrome plated	Manganese phosphate coated
Note			

Shifting Lever

Series		ALFINE	ALFINE	ALFINE	NEXUS	NEXUS	NEXUS
Model no.		SL-S700	SL-S7000-8	SL-S503	SL-C6000-8	SL-7550	SL-C3000-7
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	REVOSHIFT	RAPIDFIRE PLUS	REVOSHIFT
Top-Normal		X	X	-	-	-	-
Speeds		11	8	8	8	7	7
Compatible internal geared hub type		SG-S7001-11	SG-S7000-8, SG-S7001-8	SG-S501, NEXUS INTER-8	NEXUS INTER-8	NEXUS INTER-7	NEXUS INTER-7
I-SPEC compatible		-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
Max. multiple shifts		2	1	1	7	1	6
Release function	MULTI RELEASE	X	-	-	-	-	-
	INSTANT RELEASE	X	-	-	-	-	-
	2WAY-RELEASE	X	X	X	-	X	-
OPTICAL GEAR DISPLAY		Above handlebar	Above handlebar	Above handlebar	Window	Window	Window
LED Positioning Light		-	-	-	-	-	-
Multi-Bearing Construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Resin	Aluminum	Resin
	Finish	Painted	Painted	Painted	Resin	Painted	Resin
Main lever body	Material	Steel & Resin	Steel & Resin	Steel & Resin	-	Resin & Steel	-
	Finish	-	-	-	-	-	-
Release lever body	Material	Steel & Resin	Steel & Resin	Steel & Resin	-	Resin & Steel	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Recommended Shifting lever Outer Casing		OT-SP41	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Stainless clamp bolt		-	-	-	-	-	-
Brake lever integrated		-	-	-	-	-	-
Brake Lever Size		-	-	-	-	-	-
Left Hand Brake Lever		-	-	-	-	-	-
Clamping Diameter (mm)		22.2	22.2	22.2	22.2	22.2	22.2
Average weight							
Note							

Shifting Lever

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SL-C7000-5	SL-5550	SL-5530	SL-5530-A	SL-3542E	SL-3541E
Color	1	Silver	Silver	Silver	Silver	-	-
	2	Black	Black	Black	Black	Black	Black
	3	-	-	White	White	-	-
Shifter type		REVOSHIFT	RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Top-Normal		X	-	-	-	-	-
Speeds		5	5	5	5	3	3
Compatible internal geared hub type		NEXUS INTER-5E	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-3	NEXUS INTER-3
I-SPEC compatible		-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	-	-
Max. multiple shifts		4	1	4	4	2	2
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	-	-	-	-	-	-
OPTICAL GEAR DISPLAY		Window	Window	Window	Window	Window	Window
LED Positioning Light		-	-	-	-	-	-
Multi-Bearing Construction		-	-	-	-	-	-
Shifting lever bracket	Material	Resin	Aluminum	Resin	Resin	Resin	Resin
	Finish	Resin	Painted	Resin	Resin	Resin	Resin
Main lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Recommended Shifting lever Outer Casing		OT-SP41	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Stainless clamp bolt		-	-	-	-	-	-
Brake lever integrated		-	-	-	-	-	-
Brake Lever Size		-	-	-	-	-	-
Left Hand Brake Lever		-	-	-	-	-	-
Clamping Diameter (mm)		22.2	22.2	22.2	22.2	22.2	22.2
Average weight		-	-	-	-	-	-
Note		with Rubber Bellows spec is available					

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Shifting Lever

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SL-3S35E	SL-3S58	SL-3S42	SL-3S43	SL-3S90	SL-3S91
Color	1	-	Silver	Silver	Silver	Gray	-
	2	Black	Black	Black	Black	Black	-
	3	-	White	-	White	-	White
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	Piano-touch	Piano-touch
Top-Normal		-	-	-	-	-	-
Speeds		3	3	3	3	3	3
Compatible internal geared hub type		NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3
I-SPEC compatible		-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		-	-	-	-	-	-
Max. multiple shifts		2	2	2	2	2	2
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	-	-	-	-	-	-
OPTICAL GEAR DISPLAY		Dial	Window	Window	Window	Dial	Dial
LED Positioning Light		-	-	-	-	-	-
Multi-Bearing Construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Resin	Resin	Resin	Steel	Steel
	Finish	Painted	Resin	Resin	Resin	Painted	Painted
Main lever body	Material	-	-	-	-	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	-	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	Standard	Standard	Standard	Standard	Standard
Recommended Shifting lever Outer Casing		OT-SP40	OT-SP40	OT-SP40	Normal	Normal	Normal
Stainless clamp bolt		-	-	-	-	-	-
Brake lever integrated		-	-	-	-	-	-
Brake Lever Size		-	-	-	-	-	-
Left Hand Brake Lever		-	-	-	-	-	-
Clamping Diameter (mm)		22.2	22.2	22.2	22.2	22.2	22.2
Average weight							
Note			SL-3S58 J: Specification for Japan market	SL-3S42 J: Specification for Japan market	SL-3S43 J: Specification for Japan market	SL-3S90 J: Specification for Japan market	SL-3S91 J: Specification for Japan market

REVOSHIFT shifter integrated with brake lever

Series		NEXUS
Model no.		SB-C6000-8
Color	1	Silver
	2	Black
	3	-
Shifter type		REVOSHIFT
Top-Normal		-
Speeds		8
Compatible internal geared hub type		NEXUS INTER-8
I-SPEC compatible		-
Shifting lever position adjust		-
Shifting lever cable adjust		X
Max. multiple shifts		7
Release function	MULTI RELEASE	-
	INSTANT RELEASE	-
	2WAY-RELEASE	-
OPTICAL GEAR DISPLAY		Window
LED Positioning Light		-
Multi-Bearing Construction		-
Shifting lever bracket	Material	Aluminum
	Finish	Painted
Main lever body	Material	-
	Finish	-
Release lever body	Material	-
	Finish	-
Base cover	Material	Resin
	Finish	-
Shifting lever cable	Material	OPTISLICK
	Finish	-
Recommended shifting lever Outer Casing		SP41 Sealed
Stainless clamp bolt		-
Brake lever integrated		X
Brake Lever Size		4-Finger
Left Hand Brake Lever		BL-C6010
Clamping Diameter (mm)		22.2
Note		

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Brake Lever (Hydraulic disc brake)

Series		ALFINE
Model no.		BL-S700-B
Brake type		Hydraulic disc brake
Lever size (Finger)		3
Color	1	Silver
	2	Black
	3	-
Brake hose (Kit)		SM-BH90-SB
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
Recommended brake caliper		BR-S700
Oil		SHIMANO Mineral
Funnel bleeding		X
Reach adjust	Toolless	X
	Tool	-
Free stroke adjust		-
SERVOWAVE		-
Clamp band	Open clamp	X
	I-SPEC	X*
Clamp bolt	Material	Stainless steel
	Finish	-
Brake lever	Material	Aluminum
	Finish	Anodized
Master cylinder	Material	Aluminum
	Finish	Painted
Note		*I-SPEC B-type compatible

Brake Lever

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

Brake (Hydraulic disc brake)

Series		ALFINE
Model no.		BR-S700
Brake type		Hydraulic disc brake
Color	1	Silver
	2	Black
	3	-
Brake hose (kit)		SM-BH90-SB
Hose joint		Banjo
Brake hose color (kit)	1	Black
	2	-
ICE TECHNOLOGIES pad compatible caliper		X
Pad	Standard 1	G01A Resin
	Standard 2	-
	Option 1	F01A Resin
	Option 2	-
Recommended brake lever		BL-S700-B
Recommended disc brake rotor		SM-RT81
Oil		SHIMANO Mineral
ONE WAY BLEEDING		X
Mount type (available for IS mount with mount adapter)		Post-type
Piston		2
Piston material		Ceramic
Caliper	MONO-BODY	-
	Material	Aluminum
	Finish	Painted
Caliper fixing bolt	Material	Stainless steel
	Tool size	5 mm
	Anti loosen method	Snap ring
Pad mount		Pad axle
Note		

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Brake (Roller Brake)

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		BR-C6060-F	BR-C6000-F	BR-C6000-F-DX	BR-C6000-R	BR-C6000-R-DX	BR-C3010-F
Front		X	X	X	-	-	X
Rear		-	-	-	X	X	-
Structure type		Hyper	Hyper	Hyper	Hyper	Hyper	Normal
Braking power (*1)		1.7	1.5	1.5	1.2	1.2	1.2
Cooling fin diameter (mm)		138	150	150	150	150	140
Heat dissipation (*1)		1.4	1.4	1.4	1.4	1.4	1.2
Without cooling fin		-	-	-	-	-	-
With POWER MODULATOR function		X	-	-	-	-	-
Wheel size	26-28 inch	X	X	X	X	X	X
	20-28 inch	-	-	-	-	-	-
	16-28 inch	-	-	-	-	-	-
	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	16-20 inch	-	-	-	-	-	-
	Compatible wheel size (mm)	-	-	-	-	-	-
Roller brake modulator grade	More than 26 inch High	X	X	X	-	-	-
	More than 26 inch Standard	-	-	-	-	-	X
	20-24 inch	-	-	-	-	-	-
Inner cable quick release	X	X	X	X	X	X	
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	NEXUS	NEXUS	NEXUS
Model no.		BR-C3010-R	BR-C3000-F	BR-C3000-F-DX	BR-C3000-R	BR-C3000-R-DX	BR-IM31-F
Front		-	X	X	-	-	X
Rear		X	-	-	X	X	-
Structure type		Normal	Normal	Normal	Normal	Normal	Normal
Braking power (*1)		1	1.2	1.2	1	1	0.9
Cooling fin diameter (mm)		140	122	122	122	122	90
Heat dissipation (*1)		1.2	1.0	1.0	1.0	1.0	Less than 1
Without cooling fin		-	-	-	-	-	-
With POWER MODULATOR function		-	-	-	-	-	-
Wheel size	26-28 inch	X	X	X	X	X	X
	20-28 inch	-	-	-	-	-	-
	16-28 inch	-	-	-	-	-	-
	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	16-20 inch	-	-	-	-	-	-
	Compatible wheel size (mm)	-	-	-	-	-	-
Roller brake modulator grade	More than 26 inch High	-	-	-	-	-	-
	More than 26 inch Standard	-	X	X	-	-	X
	20-24 inch	-	-	-	-	-	-
Inner cable quick release	X	X	X	X	X	-	
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					

Brake (Roller Brake)

Series	NEXUS	
Model no.	BR-IM31-R	
Front	-	
Rear	X	
Structure type	Normal	
Braking power (*1)	0.9	
Cooling fin diameter (mm)	90	
Heat dissipation (*1)	Less than 1	
Without cooling fin	Available	
With POWER MODULATOR function	-	
Wheel size	26-28 inch	X
	20-28 inch	-
	16-28 inch	-
	24-28 inch	-
	20-24 inch	-
	16-20 inch	-
	Compatible wheel size (mm)	-
Roller brake modulator grade	More than 26 inch High	-
	More than 26 inch Standard	-
	20-24 inch	-
Inner cable quick release	-	
Disc brake mount compatible	-	
Note	Specification for Japan market	
*1 Performance index rating uses BR-C3000-R brake unit as a reference value of 1. Testing condition.		

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Front Chainwheel

Series		ALFINE	NEXUS
Model no.		FC-S501	FC-C6000
Color	1	Silver	Silver
	2	Black	Black
	3	-	-
Chainring teeth	45T	X	-
	42T	X	-
	39T	X	-
	38T	-	X
	33T	-	X
	Others	-	-
	P.C.D. (mm)	130	-
Chain guard type	Double	X	-
	Single	-	-
	NA	-	X
Chainline (mm)		49.2 (double chain guard) 42.7 (single chain guard)	44
Compatible chain	Super Narrow HG for 9-speed	X (CN-HG93 CN-HG53)	-
	HG 8-speed (1/2"x3/32")	X (CN-HG71)	X (CN-HG71)
	1/2"x1/8"	-	X (CN-NX10)
Crank Arm length (mm)		170	170
Gear arms		5	-
2-PIECE CRANKSET		X	-
OCTALINK		-	-
Compatible BB type	Outboard	X	-
	OCTALINK	-	-
	Square	-	X
Recommended BB	Threaded (normal)	-	-
	Threaded (chain case)	-	X
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-
	Threaded (chain case)	-	BB-UN26-K
Threaded BB shell width	68mm	X	X
Chain case compatible		-	X
Crank arm	Material	Aluminum	Aluminum
	Finish	Anodized / Painted	Painted
Chain ring	Material	Aluminum	Steel
	Finish	Anodized	Black
Chain guard1	Material	Aluminum	Resin
	Finish	Anodized	Painted
	Diameter (mm) 45T	200	-
	Diameter (mm) 42T	190	-
	Diameter (mm) 39T	174	-
	Diameter (mm) 33T	-	95.4
Chain guard2	Material	Resin	-
	Finish	-	-
	Diameter (mm) 45T	200	-
	Diameter (mm) 42T	190	-
	Diameter (mm) 39T	174	-
	Diameter (mm) 33T	-	95.4
Crank fixing bolt included		X	X
Note			t : chain case thickness * Both of spec with bolt and spec w/o bolt are available.

Front Hub (Roller Brake)

Series		NEXAVE	NEXUS
Model no.		HB-IM70	HB-IM40
Color	1 Hub Shell	Silver	Silver
	1 QR	Silver	-
	2 Hub Shell	-	-
	2 QR	-	-
Type		For hub roller brake	For hub roller brake
Spoke holes	28H	-	-
	32H	-	-
	36H	X	X
	Others	-	-
P.C.D. (mm)		70	52
O.L.D. (mm)	100	X	X
	105	X	-
Flange distance (mm)		56.8	61.5
Offset (mm)		4.2(QR)3.7/6(NUT)	4.3
Wheel size	26-28 inch	X	X
	20-28 inch	-	-
	16-28 inch	-	-
	24-28 inch	-	-
	20-24inch	X	-
	16-20 inch	-	-
	Compatible wheel size (mm)	-	-
Roller brake modulator grade	More than 26inch High	-	-
	More than 26inch Standard	X	X
	20-24inch	X	-
Axle (QR type)	QR skewer length 129 mm	X	-
	QR skewer length 133 mm	X	-
	Axle length (mm)	108 (M10)	-
	Material	Steel	-
Axle (Nut type)	Axle length 140 mm	X (M9)	X (M9)
	Axle length 145 mm	X (M9)	-
	Material	Steel	Steel
Seal		X	X
Hub shell	Material	Aluminum	Aluminum
	Finish	Clear Painted	Machined
Quick release lever	Material	Aluminum	-
	Finish	Anodized	-
Structure (Braking power)		Hyper	Normal
Note			

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FREEHUB (Roller Brake)

Series		NEXAVE	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-IM70	FH-IM20	RH-IM10	RH-IM11
Color	Hub shell	Silver	Silver	Silver	Silver
	QR lever	-	-	-	-
Spoke holes	28H	-	X	X	X
	32H	X	-	X	X
	36H	X	X	X	X
	Others	-	-	-	-
	P.C.D. (mm)	45	45	74	74
FREEHUB body	Speeds	8-9 speed	7-speed	-	-
	11T compatible	X	X	-	-
	Roller clutch	Roller Clutch	-	-	-
	Material	Steel	Steel	-	-
O.L.D. (mm)		135	134.7	132.7 (6-speed) 134.7 (7-speed)	132.7 (6-speed) 134.7 (7-speed)
Flange diameter (mm)		53.8	54	84	84
Flange distance (mm)		60	61.2	57.1	57.1
Dish (mm)		6.8	5.85	6.9 (6-speed) 7.9 (7-speed)	6.9 (6-speed) 7.9 (7-speed)
Axle (QR type)	QR Skewer Length	-	-	-	-
	Length (mm)	-	-	-	-
	Material	-	-	-	-
Axle (Nut Type)	Length left / right (mm)	185 (M10)	194/202	180 (M10)	180 (M10)
	Material	Steel	Steel	Steel	Steel
Seal	Hub	X	-	-	-
	Freewheel	X	-	-	-
Hub shell	Material	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Chrome plated	Plating	Plating
Note				For 6 / 7-speed multifree wheel	For 6 / 7-speed multifree wheel

FREEHUB (Band Brake)

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

Head Parts

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

ARCHIVE

SG

CT

CS

SL

SB

BL

BL

BR

BR

FC

HB

FH

FH

HP

EW

Electric Wire

Series		SHIMANO	
Model no.		EW-NX30	
Number of branch		2, 3, 4 1, 2 (Converter)	
Distributor		X - (converter)	
Electric wire color	Black	X	
	Gray	-	
Length (mm)	Cord to SL / SM-R	Length	175 (*4, *5, *6, *7)
		EZ cable clamp	2 (*4, *5, *6, *7)
	Cord to SM / SM-L	Length	65 (*4, *6) 215 (*5, *7)
		EZ cable clamp	1 (*4, *6) 2 (*5, *7)
	Distributor B **	Length	-
		EZ cable clamp	-
	Distributor C *	Length	-
		EZ cable clamp	-
	Cord between distributor B/C and A	Length	-
		EZ cable clamp	-
	Distributor A ***	Length	-
		EZ cable clamp	-
	Cord to Front LP	Length	570 (*4, *5, *6, *7)
		EZ cable clamp	1 (*4, *5, *6, *7)
	Cord to Rear LP	Length	270
		EZ cable clamp	2
Cord to Dynamo	Length	800 (*4, *6) 1000 (*5, *7)	
	EZ cable clamp	-	
Cord for converter	Length	50 (*1, *2, *3)	
	EZ cable clamp	-	
Note	<p>*1 Converter between EW-NX60 (with pin hole) connector and EW-NX30 (with pin) connector</p> <p>*2 Converter between front light tab on and EW-NX30 (with pin) connector</p> <p>*3 Converter between EW-NX30 (with pin hole) connector and EW-NX60 (with pin) connector</p> <p>*4 Auto light + SL/ SMRS34 combination</p> <p>*5 Auto light + SL/ SMRS34 combination</p> <p>*6 PHF combination (Auto light + SL/ SM-RS34)</p> <p>*7 PHF combination (Auto light + SL/ SM-RS34)</p>		

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Wheel (Rim Brake)	180	WH
Wheel (Disc Brake)	185	WH
Head Parts	188	HP

Shifting/Brake Lever

Series		DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	
Model no.		ST-R9100-R	ST-R9100-L	ST-9001	ST-R8000-R	ST-R8000-L	ST-6800	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Series color	Series color	2-Tone	Black	Black	Black	
	2	-	-	-	-	-	White	
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds	-	2	2	-	2	2	
	Rear speeds	11	-	11	11	-	11	
	OPTICAL GEAR DISPLAY	-	-	-	-	-	-	
	FLIGHT DECK	-	-	-	-	-	-	
	Multi-Bearing construction	R:4 L:4	R:4 L:4	R:4 L:4	*	*	- *	
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-RS900	OT-RS900	OT-SP41 Sealed	OT-RS900	OT-RS900	OT-SP41 Sealed
	Shifting lever cable	Material	SUS	SUS	SUS	SUS	SUS	SUS
		Finish	Polymer coated	Polymer coated	Polymer coated	Polymer coated	Polymer coated	Polymer coated
	Shifting lever cable shipping condition	Not Pre-Assembled	X	X	X	X	X	X
Pre-Assembled		X	X	X	X	X	X	
Brake lever	Reach adjust	Screw	Screw	Screw	Screw	Screw	Screw	
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
	SLR-EV	X	X	X	X	X	X	
	NEW SUPER SLR	-	-	-	-	-	-	
	super SLR	-	-	-	-	-	-	
Bracket	Cable adjuster bracket	-	-	-	-	-	-	
	Material	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP	
	Finish	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP	
Main lever	Material	Carbon	Carbon	Carbon	CFRP	CFRP	CFRP	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Average Weight		365 g/pair	365 g/pair	365 g/pair	220 g	218 g	425 g/pair	
Note					* Use bush	* Use bush	* Use bush	

Shifting/Brake Lever

Series		105	105	105	105	105	TIAGRA	
Model no.		ST-R7000-R	ST-R7000-L	ST-5800	ST-5700	ST-5703	ST-4700-R	
Color	1	Silky black	Silky black	Black	Silver	Silver	Series color	
	2	Spark silver	Spark silver	Silver	Black	Black	-	
Bracket cover color	1	Black	Black	Black	Black	Black	Black	
	2	-	-	White	White	White	-	
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds	-	2	2	2	3	-	
	Rear speeds	11	-	11	10	-	10	
	OPTICAL GEAR DISPLAY	-	-	-	-	-	-	
	FLIGHT DECK	-	-	-	-	-	-	
	Multi-Bearing construction	0	0	0	-	-	0	
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-RS900	OT-RS900	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	Shifting lever cable	Material	SUS	SUS	SUS	SUS	SUS	SUS
		Finish	OPTISLICK	OPTISLICK	OPTISLICK	SIL-TEC	SIL-TEC	OPTISLICK
	Shifting lever cable shipping condition	Not Pre-Assembled	X	X	X	X	X	X
Pre-Assembled		X	X	X	X	X	X	
Brake lever	Reach adjust	Screw	Screw	Screw	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	
	SLR-EV	X	X	X	-	-	X	
	NEW SUPER SLR	-	-	-	X	X	-	
	super SLR	-	-	-	-	-	-	
Bracket	Cable adjuster bracket	-	-	-	-	-	-	
	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
	Finish	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
Main lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Silver: Clear Coated Black Paint	Silver: Clear Coated Black Paint	Painted	
Average Weight		251 g/pc	249 g/pc	486 g/pair	490 g/pair	507 g/pair	-	
Note		-	-					

ST

ST

SL

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WH

HP

Shifting/Brake Lever

Series		TIAGRA	TIAGRA	SHIMANO	SORA	SORA	SORA	
Model no.		ST-4700-L	ST-4703-L	ST-R460	ST-R3000-R	ST-R3000-L	ST-R3030-L	
Color	1	Series color	Series color	Black	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Black	Black	Black	Standard	Standard	Standard	
	2	-	-	-	-	-	-	
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds	2	3	2	-	2	3	
	Rear speeds	-	-	10	9	-	-	
	OPTICAL GEAR DISPLAY	-	-	X	-	-	-	
	FLIGHT DECK	-	-	-	-	-	-	
	Multi-Bearing construction	0	0	-	0	0	0	
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	Shifting lever cable	Material	SUS	SUS	SUS	SUS	SUS	SUS
		Finish	OPTISLICK	OPTISLICK	-	OPTISLICK	OPTISLICK	OPTISLICK
	Shifting lever cable shipping condition	Not Pre-Assembled	X	X	X	-	-	-
Pre-Assembled		X	X	-	X	X	X	
Brake lever	Reach adjust	screw	screw	Spacer Use	Screw	Screw	Screw	
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
	SLR-EV	X	X	-	-	-	-	
	NEW SUPER SLR	-	-	X	X	X	X	
	super SLR	-	-	-	-	-	-	
Bracket	Cable adjuster bracket	-	-	-	-	-	-	
	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
	Finish	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
Main lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Average Weight		-	-	-	-	-	-	
Note				SHIMANO logo Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE				

Shifting/Brake Lever

Series		SHIMANO	CLARIS	CLARIS	CLARIS	CLARIS	CLARIS	
Model no.		ST-R353	ST-R2000-R	ST-R2000-L	ST-R2030-L	ST-R5200-R	ST-R5200-L	
Color	1	Black	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Black	Black	Black	Black	-	-	
	2	-	-	-	-	-	-	
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	RAPIDFIRE PLUS	RAPIDFIRE PLUS	
Shifting lever	Front speeds	3	-	2	3	-	2	
	Rear speeds	-	8	-	-	8	-	
	OPTICAL GEAR DISPLAY	X	-	-	-	X	X	
	FLIGHT DECK	-	-	-	-	-	-	
	Multi-Bearing construction	-	-	-	-	-	-	
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	Shifting lever cable	Material	SUS	Steel	Steel	Steel	Steel	Steel
		Finish	SIL-TEC	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
	Shifting lever cable shipping condition	Not Pre-Assembled	X	-	-	-	-	-
Pre-Assembled		-	X	X	X	X	X	
Brake lever	Reach adjust	Spacer Use	Screw	Screw	Screw	X	X	
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	22.2	22.2	
	SLR-EV	-	-	-	-	-	-	
	NEW SUPER SLR	X	X	X	X	-	-	
	super SLR	-	-	-	-	X	X	
Bracket	Cable adjuster bracket	-	-	-	-	X	X	
	Material	GFRP	GFRP	GFRP	GFRP	Aluminum	Aluminum	
	Finish	GFRP	GFRP	GFRP	GFRP	Painted	Painted	
Main lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Average Weight		-	-	-	-	-	-	
Note		SHIMANO logo Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE						

ST

ST

SL

BL

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HP

Shifting/Brake Lever

Series		CLARIS	TOURNEY	TOURNEY	
Model no.		ST-RS203-L	ST-A070	ST-A073-L	
Color	1	Series color	Series color	Series color	
	2	-	-	-	
Bracket cover color	1	-	Black	Black	
	2	-	-	-	
Lever type		RAPIDFIRE PLUS	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds	3	2	3	
	Rear speeds	-	7	-	
	OPTICAL GEAR DISPLAY	X	X	X	
	FLIGHT DECK	-	-	-	
	Multi-Bearing construction	-	-	-	
	Outer casing	Lever side	OT-SP41	OT-SIS40	OT-SIS40
		Rear derailleur side	OT-SP41 Sealed	OT-SIS40	OT-SIS40
	Shifting lever cable	Material	Steel	SUS Option	SUS Option
		Finish	OPTISLICK	-	-
	Shifting lever cable shipping condition	Not Pre-Assembled	-	X	X
Pre-Assembled		X	-	-	
Brake lever	Reach adjust	X	Screw	Screw	
	Clamp band (mm)	22.2	23.8-24.2	23.8-24.2	
	SLR-EV	-	-	-	
	NEW SUPER SLR	-	-	-	
	super SLR	X	X	X	
Bracket	Cable adjuster bracket	X	-	-	
	Material	Aluminum	GFRP	GFRP	
	Finish	Painted	GFRP	GFRP	
Main lever	Material	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	
Average Weight		-	-	-	
Note					

Shifting/Brake Lever (Hydraulic disc brake)

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	105	105	
Model no.		ST-R9120-R	ST-R9120-L	ST-R8020-R	ST-R8020-L	ST-R7020-R	ST-R7020-L	
Color	1	Series color	Series color	Series color	Series color	Silky Black	Silky Black	
	2	-	-	-	-	-	-	
Bracket cover color	1	Standard	Standard	Standard	Standard	Standard	Standard	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds	-	2	-	2	-	2	
	Rear speeds	11	-	11	-	11	-	
	2 / 3 mode converter	-	-	-	-	-	-	
	Max. multiple shifts (Main lever / rear)	2	-	2	-	2	-	
	Compatible rear derailleur type	Road 11-speed RD	-	Road 11-speed RD	-	Road 11-speed RD	-	
	I-SPEC compatible	-	-	-	-	-	-	
	Shifting lever position adjust	-	-	-	-	-	-	
	Release function	MULTI RELEASE	-	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-	-
		2WAY-RELEASE	-	-	-	-	-	-
	OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction	-	-	-	-	-	-	
	Shifting lever outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-RS900	OT-RS900	OT-SP41	OT-SP41	OT-RS900	OT-RS900
	Shifting lever cable	Polymer-coated cable	X	X	X	X	-	-
OPTISLICK		-	-	-	-	X	X	
SIL-TEC		-	-	-	-	-	-	
Stainless		-	-	-	-	-	-	
Steel		-	-	-	-	-	-	
Included		X	X	X	X	X	X	
Pre assembled	X	X	X	X	X	X		
Brake lever	Lever size (Finger)	-	-	-	-	-	-	
	Brake hose (Kit)	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR	
	Hose joint	Straight	Straight	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
	Recommended brake caliper	BR-R9170	BR-R9170	BR-R8070	BR-R8070	BR-R7070	BR-R7070	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
		Tool less	-	-	-	-	-	-
	Reach adjust	Tool	X	X	X	X	X	X
	Funnel bleeding	X	X	X	X	X	X	
Free stroke adjust	X	X	X	X	-	-		
SERVOWAVE	X	X	X	X	-	-		
Clamp band	Open clamp	-	-	-	-	-	-	
	I-SPEC	-	-	-	-	-	-	
	Diameter (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
Bracket	Material	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	
	Finish	-	-	-	-	-	-	
Brake lever	Material	CFRP	CFRP	Engineering Composite	Engineering Composite	Aluminium	Aluminium	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Shifter lever body	Main	-	-	-	-	-	-	
	Release	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	
Master cylinder	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Clamp band	Titanium	Titanium	Steel	Steel	Steel	Steel		
Average Weight	538 g/pair	538 g/pair	554 g/pair	554 g/pair	610 g/pair	610 g/pair		
Note								

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

Shifting/Brake Lever (Hydraulic disc brake)

Series		105	105	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-R7025-R	ST-R7025-L	ST-RS685-R	ST-RS685-L	ST-RS505-R	ST-RS505-L	
Color	1	Silky Black	Silky Black	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Standard	Standard	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds	-	2	-	2	-	2	
	Rear speeds	11	-	11	-	11	-	
	2 / 3 mode converter	-	-	-	-	-	-	
	Max. multiple shifts (Main lever / rear)	2	-	2	-	2	-	
	Compatible rear derailleur type	Road 11-speed RD	-	Road 11-speed RD	-	Road 11-speed RD	-	
	I-SPEC compatible	-	-	-	-	-	-	
	Shifting lever position adjust	-	-	-	-	-	-	
	Release function	MULTI RELEASE	-	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-	-
		2WAY-RELEASE	-	-	-	-	-	-
	OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction	-	-	-	-	-	-	
	Shifting lever outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-RS900	OT-RS900	OT-SP41	OT-SP41	OT-SP41	OT-SP41
	Shifting lever cable	Polymer-coated cable	-	-	X	X	-	-
OPTISLICK		X	X	-	-	X	X	
SIL-TEC		-	-	-	-	-	-	
Stainless		-	-	-	-	-	-	
Steel		-	-	-	-	-	-	
Included		X	X	X	X	X	X	
Pre assembled	X	X	X	X	X	X		
Brake lever	Lever size (Finger)	-	-	-	-	-	-	
	Brake hose (Kit)	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	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS	
	Hose joint	Straight	Straight	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	White	White	-	-
	Recommended brake caliper	BR-R7070	BR-R7070	BR-RS785	BR-RS785	BR-RS505	BR-RS505	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
		Tool less	-	-	-	-	-	-
	Reach adjust	Tool	X	X	X	X	X	X
	Funnel bleeding	X	X	X	X	X	X	
Free stroke adjust	-	-	X	X	X	X		
SERVOWAVE	-	-	X	X	X	X		
Clamp band	Open clamp	-	-	-	-	-	-	
	I-SPEC	-	-	-	-	-	-	
Bracket	Diameter (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	
	Material	Engineering Composite	Engineering Composite	Aluminum	Aluminum	Aluminum	Aluminum	
Brake lever	Finish	-	-	Painted	Painted	Painted	Painted	
	Material	Aluminium	Aluminium	Engineering Composite	Engineering Composite	Aluminium	Aluminium	
Shifter lever body	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
	Main	-	-	-	-	-	-	
Master cylinder	Release	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	
	Material	-	-	-	-	-	-	
Clamp band	Finish	-	-	-	-	-	-	
	Material	Steel	Steel	Steel	Steel	Steel	Steel	
Average Weight	619 g/pair	619 g/pair	649 g/pair	649 g/pair	665.3 g/pair	665.3 g/pair		
Note	-	-	-	-	-	-		

Shifting/Brake Lever (Hydraulic disc brake)

Series		SHIMANO	SHIMANO	
Model no.		ST-RS405-R	ST-RS405-L	
Color	1	Dark Gray	Dark Gray	
	2	-	-	
Bracket cover color	1	Black	Black	
	2	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds	-	2	
	Rear speeds	10	10	
	2 / 3 mode converter	-	-	
	Max. multiple shifts (Main lever / rear)	2	-	
	Compatible rear derailleur type	Road 10-speed RD	-	
	I-SPEC compatible	-	-	
	Shifting lever position adjust	-	-	
	Release function	MULTI RELEASE	-	-
		INSTANT RELEASE	-	-
		2WAY-RELEASE	-	-
	OPTICAL GEAR DISPLAY	With	-	-
		With (removable)	-	-
		Without	-	-
	Multi-Bearing construction	-	-	
	Shifting lever outer casing	Lever side	OT-SP41	OT-SP41
		Rear derailleur side	OT-SP41	OT-SP41
	Shifting lever cable	Polymer-coated cable	-	-
		OPTISLICK	X	X
		SIL-TEC	-	-
Stainless		-	-	
Steel		-	-	
Included		X	X	
Pre assembled	X	X		
Brake lever	Lever size (Finger)	-	-	
	Brake hose (Kit)	SM-BH59-J-SS	SM-BH59-J-SS	
	Hose joint	Straight	Straight	
	Brake hose color (kit)	1	Black	Black
		2	-	-
	Recommended brake caliper	BR-RS405	BR-RS405	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	
	Reach adjust	Tool less	-	-
		Tool	X	X
	Funnel bleeding	X	X	
Free stroke adjust	-	-		
SERVOWAVE	-	-		
Clamp band	Open clamp	-	-	
	I-SPEC	-	-	
	Diameter (mm)	23.8-24.2	23.8-24.2	
Bracket	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Brake lever	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Shifter lever body	Main	-	-	
	Release	Steel & Resin	Steel & Resin	
Master cylinder	Material	-	-	
	Finish	-	-	
Clamp band		Steel	Steel	
Average Weight		-	-	
Note				

Shifting Lever

Series		DURA-ACE	SHIMANO	DURA-ACE	DURA-ACE	TIAGRA	TIAGRA
Model no.		SL-BSR1	SL-R5700	SL-B579	SL-7900	SL-4700	SL-4703
Color	1	Series color	Silver	Series color	Series color	Series color	Series color
	2	-	Black	-	-	-	-
Shifter type		Bar end Shifter	RAPIDFIRE PLUS	Bar end Shifter	Down Tube Shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2	2	2/3	2/3	2	3
Rear speeds		11	11	10	10	10	-
Compatible rear derailleur type		ROAD 11-speed RD	ROAD 11-speed RD	ROAD 10-speed RD	ROAD 10-speed RD	RD-4700	RD-4700
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		-	X	-	-	X	X
Max. multiple shifts (Main lever/ rear)		-	4	-	-	4	-
Release function	MULTI RELEASE	-	*X (Right) / - (Left)	-	-	-	-
	INSTANT RELEASE	-	X	-	-	X (rear)	-
	2WAY-RELEASE	-	X	-	-	X	X
OPTICAL GEAR DISPLAY	with	-	-	-	-	X	X
	with (removable)	-	-	-	-	-	-
	without	X	X	X	X	-	-
Multi-Bearing construction		-	R:2 L:2	-	-	R:2 L:2	2
Shifting lever bracket	Material	-	Aluminum	-	-	Aluminum	Aluminum
	Finish	-	Painted	-	-	Painted	Painted
Main lever body	Material	Aluminum	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Coated	Painted	Clear Coated	Clear Coated	Painted	Painted
Release lever body	Material	-	GFRP & Steel	-	-	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	SIL-TEC	SIL-TEC	SIL-TEC	SIL-TEC	-	-
Recommended Shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight		153 g/pair	210 g/pair	153 g/pair	63 g/pair	-	-
Note			* Pull:single Push:double				

Series		TIAGRA	TIAGRA	SHIMANO	DURA-ACE	DURA-ACE	SORA
Model no.		SL-4600	SL-4603	SL-R460	SL-B577	SL-7700	SL-R3000-R
Color	1	Series color	Series color	Black	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Bar end Shifter	Down Tube Shifter	RAPIDFIRE PLUS
Front speeds		2	3	2	2/3	2/3	-
Rear speeds		10	-	10	9	9	9
Compatible rear derailleur type		ROAD 10-speed RD	-	ROAD 10-speed RD	ROAD 9-speed RD	ROAD 9-speed RD	RD-R3000
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	-	-	X
Max. multiple shifts (Main lever/ rear)		4	-	4	-	-	3
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	X (R)	-	X (right side)	-	-	-
	2WAY-RELEASE	X	X	X	-	-	X
OPTICAL GEAR DISPLAY	with	X	X	X	-	-	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	X	X	-
Multi-Bearing construction		R:2 L:2	2	R:2 L:2	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
	Finish	Painted	Painted	Painted	-	-	Painted
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Clear Coated	Clear Coated	Painted
Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	-	-	Resin & Steel
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	SUS
	Finish	-	-	-	-	-	OPTISLICK
Recommended Shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight		-	-	-	-	-	-
Note				SHIMANO logo			

Shifting Lever

Series		SORA	SORA	SHIMANO	SHIMANO	CLARIS	CLARIS
Model no.		SL-R3000-L	SL-R3030-L	SL-R350-R	SL-R353	SL-R2000-R	SL-R2000-L
Color	1	Series color	Series color	Black	Black	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2	3	-	3	-	2
Rear speeds		-	-	9	-	8	-
Compatible rear derailleur type		FD-R3000	FD-R3030	ROAD 9-speed RD	-	Road 8-speed RD	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
Max. multiple shifts (Main lever/ rear)		-	-	3	-	3	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	X	X	X	X	X	X
OPTICAL GEAR DISPLAY	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Resin & Steel	Resin & Steel
	Finish	Painted	Painted	Painted	Painted	-	-
Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	SUS	SUS	Stainless steel	Stainless steel	Steel	Steel
	Finish	OPTISLICK	OPTISLICK	-	-	OPTISLICK	OPTISLICK
Recommended Shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight		-	-	-	-	-	-
Note				SHIMANO logo	SHIMANO logo		

Series		CLARIS	SHIMANO	A050	A050	SHIMANO	SHIMANO
Model no.		SL-R2030-L	SL-R400	SL-A050-7R	SL-A050-LN	SL-SY20A-7	SL-SY20A-6
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	Down Tube Shifter	Handle Bar Mount Shifter	Handle Bar Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter
Front speeds		3	2/3	-	2 (Friction)	2 (Friction)	2 (Friction)
Rear speeds		-	8	7	-	7	6
Compatible rear derailleur type		-	ROAD 8-speed RD	ROAD 7-speed RD	-	ROAD 7-speed RD	ROAD 6-speed RD
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		-	-	-	-	-	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	X	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	X	-	-	-	-	-
	with (removable)	-	-	-	-	-	-
	without	-	X	X	X	X	X
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	-	Steel	Steel	Steel	Steel
	Finish	Painted	-	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Main lever body	Material	Resin & Steel	Aluminum	Resin	Resin	Resin	Resin
	Finish	-	Painted	-	-	-	-
Release lever body	Material	Resin & Steel	-	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Stainless steel	Steel	Steel	Steel	Steel
	Finish	OPTISLICK	-	Standard	Standard	Standard	Standard
Recommended Shifting lever outer casing		OT-SP41	OT-SP41	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weight		-	-	-	-	-	-
Note						Stem and brazed on, band types are available	Stem and brazed on, band types are available

Brake Lever

Series		DURA-ACE	TIAGRA	SORA	CLARIS	SHIMANO	SHIMANO
Model no.		BL-TT79	BL-4700	BL-R3000	BL-R2000	BL-R780	BL-R550
Color	1	Black	Series color	Series color	Series color	Silver	Silver
	2	-	-	-	-	Black	Black
	3	-	-	-	-	-	-
Compatible brake type	V-BRAKE	-	X	X	X	X	-
	Mechanical disc brake (Road)	X	X	X	X	X	X
	Caliper (NEW SUPER SLR)	X	X	X	X	X	-
	Caliper (super SLR)	-	-	-	-	-	X
	Cantilever brake	X	X	X	X	X	X
	Roller brake	-	-	-	-	-	-
Recommended POWER MODULATOR	V-BRAKE	-	-	-	-	-	-
	Mechanical disc brake (MTB)	-	-	-	-	-	-
Clamp band	Open clamp band	-	-	-	-	-	-
	I-SPEC compatible	-	-	-	-	-	-
	Diameter (mm)	*	22.2	22.2	22.2	22.2	22.2
Internal bumper stop		-	X	X	X	X	-
Lever size (Finger)		-	2.5	2.5	2.5	2.5	2.5
Brake cable type		-	T-type	T-type	T-type	T-type	T-type
Power adjuster		-	-	-	-	-	-
SERVOWAVE		-	-	-	-	-	-
Reach adjust		X	X	X	X	X	X
Cable adjust		-	X	X	X	X	X
Cable adjust type		-	Two hand	Two hand	Two hand	Two hand	Two hand
Brake lever	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	anodized	Anodized	Anodized
Brake bracket	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight		89 g/pair	-	-	-	170 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.					

Brake Lever

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

Brake Lever (Hydraulic disc brake)

Series		SHIMANO
Model no.		BL-RS600
Brake type		Hydraulic disc brake
Lever size (Finger)		3
Color	1	Black
	2	-
	3	-
Brake hose (Kit)		SM-BH59-JK-SS
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
Recommended brake caliper		BR-RS405
Oil		SHIMANO Mineral
Funnel bleeding		X
Reach adjust	Toolless	-
	Tool	X
Free stroke adjust		-
SERVOWAVE		-
Clamp band	Open clamp	X
	I-SPEC B	-
	I-SPEC II	X
Clamp bolt	Material	Stainless steel
	Finish	-
Brake lever	Material	Aluminum
	Finish	Anodized
Master cylinder	Material	Aluminum
	Finish	Painted
Note		

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Brake (Caliper Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA
Model no.		BR-R9100	BR-R9110-F	BR-R9110-R	BR-R9110-RS	BR-R8000	BR-R8010-F
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Type		SLR EV Dual Pivot	Direct mount type	Direct mount type	Direct mount type	SLR EV Dual Pivot	Direct mount type
Reach (mm)		51	51	51	51	51	51
Brake shoe	Standard	R55C4	R55C4	R55C4	R55C4	R55C4	R55C4
	Optional choice	R55C4 Carbon R55C4-A Carbon R55CT4	R55C4 Carbon R55C4-A Carbon R55CT4	R55C4 Carbon R55C4-A Carbon R55CT4	R55C4 Carbon R55C4-A Carbon R55CT4	R55C4 Carbon / R55C4-A Carbon / R55CT4	R55C4 Carbon / R55C4-A Carbon / R55CT4
Compatibility		SLR EV	SLR EV	SLR EV	SLR EV	SLR EV	SLR EV
Assembly pivot nut (mm)	Front (mm)	10.5	X	-	-	X	-
		12.5	X	-	-	X	-
		18.0	X	-	-	X	-
		27.0	X	-	-	X	-
		32.0	X	-	-	X	-
	Rear (mm)	10.5	X	-	-	X	-
Cartridge shoe holder		X	X	X	X	X	X
Tire guide bumpers		X	X	X	X	X	X
QR		X	X	-	X	X	X
Shoe angle adjusting		X	X	X	X	X	X
Spring tension adjusting		-	-	X	-	-	-
Maximum tire size		28C	28C	28C	28C	28C	28C
Rim width		20.8-28 mm	20.8-28 mm	20.8-28 mm	20.8-28 mm	20.8-28.0 mm	20.8-28.0 mm
Cartridge shoe holder	Material	Magnesium	Magnesium	Magnesium	Magnesium	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Material	Aluminum	-	-	-	Aluminum	-
	Finish	Anodized	-	-	-	Anodized	-
QR	Material	Resin	Resin	-	Resin	Resin	Resin
	Finish	Painted	Painted	-	Painted	Painted	Painted
Titanium cable fixing bolt		X	X	X	X	-	-
Titanium pivot bolt		X	X (fixing bolt)	X (fixing bolt)	X (fixing bolt)	-	-
Average Weight		326 g/pair	150 g/pc	139 g/pc	148 g/pc	182 g (Front) 178 g (Rear)	174 g/pc
Note				"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature."			

Brake (Caliper Brake)

Series		ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	105	
Model no.		BR-R8010-R	BR-R8010-RS	BR-6800	BR-6810-F	BR-6810-RS	BR-R7000	
Color	1	Series color	Series color	Series color	Series color	Series color	Silky black	
	2	-	-	-	-	-	Spark silver	
Type		Direct mount type	Direct mount type	SLR EV Dual Pivot	Direct mount type	Direct mount type	SLR EV Dual Pivot	
Reach (mm)		51	51	51	51	51	51	
Brake shoe	Standard	R55C4	R55C4	R55C4	R55C4	R55C4	R55C4	
	Optional choice	R55C4 Carbon / R55C4-A Carbon / R55CT4	R55C4 Carbon / R55C4-A Carbon / R55CT4	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon / R55C4-A Carbon / R55CT4	
Compatibility		SLR EV	SLR EV	SLR EV	SLR EV	SLR EV	SLR EV	
Assembly pivot nut (mm)	Front (mm)	10.5	-	-	X	-	-	X
		12.5	-	-	X	-	-	X
		18.0	-	-	X	-	-	X
		27.0	-	-	X	-	-	X
		32.0	-	-	X	-	-	X
	Rear (mm)	10.5	-	-	X	-	-	X
Cartridge shoe holder		X	X	X	X	X	X	
Tire guide bumpers		X	X	X	X	X	X	
QR		-	X	X	X	X	X	
Shoe angle adjusting		X	X	X	X	X	X	
Spring tension adjusting		X	-	X	-	-	-	
Maximum tire size		28C	28C	25C	28C	28C	28C	
Rim width		20.8-28.0 mm	20.8-28.0 mm	*19-28 mm	*19-28 mm	*19-28 mm	20.8-28.0 mm	
Cartridge shoe holder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized/ Painted	
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized/ Painted	
Gate	Material	-	-	Aluminum	-	-	Aluminum	
	Finish	-	-	Anodized	-	-	Anodized/ Painted	
QR	Material	-	Resin	Aluminum	Aluminum	Aluminum	Resin	
	Finish	-	Painted	Painted	Painted	Painted	-	
Titanium cable fixing bolt		-	-	-	-	-	-	
Titanium pivot bolt		-	-	-	-	-	-	
Average Weight		160 g/pc	172 g/pc	335 g/pair	173 g/pc	168 g/pc	379 g/pair	
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: 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)	-	

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HP

Brake (Caliper Brake)

Series		105	105	105	TIAGRA	SORA	CLARIS	
Model no.		BR-R7010-F	BR-R7010-R	BR-R7010-RS	BR-4700	BR-R3000	BR-R2000	
Color	1	Silky black	Silky black	Silky black	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Type		Direct mount type	Direct mount type	Direct mount type	NEW SUPER SLR Dual pivot	NEW SUPER SLR Dual pivot	NEW SUPER SLR Dual pivot	
Reach (mm)		51	51	51	51	51mm	51mm	
Brake shoe	Standard	R55C4	R55C4	R55C4	R50T5	R50T5	R50T5	
	Optional choice	R55C4 Carbon / R55C4-A Carbon / R55CT4	R55C4 Carbon / R55C4-A Carbon / R55CT4	R55C4 Carbon / R55C4-A Carbon / R55CT4	R50T4	R50T4	R50T4	
Compatibility		SLR EV	SLR EV	SLR EV	NEW SUPER SLR	NEW SUPER SLR	NEW SUPER SLR	
Assembly pivot nut (mm)	Front (mm)	10.5	-	-	-	X	X	X
		12.5	-	-	-	X	X	X
		18.0	-	-	-	X	X	X
		27.0	-	-	-	X	X	X
		32.0	-	-	-	X	X	X
	Rear (mm)	10.5	-	-	-	X	X	X
Cartridge shoe holder		X	X	X	-	-	-	
Tire guide bumpers		X	X	X	-	-	-	
QR		X	-	X	X	X	X	
Shoe angle adjusting		X	X	X	X	X	X	
Spring tension adjusting		-	X	-	-	-	-	
Maximum tire size		28C	28C	28C	28C	28 mm	28 mm	
Rim width		20.8-28.0 mm	20.8-28.0 mm	20.8-28.0 mm	19-26 mm	19-28 mm	19-26 mm	
Cartridge shoe holder	Material	Aluminum	Aluminum	Aluminum	-	-	-	
	Finish	Painted	Painted	Painted	-	-	-	
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted	
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted	
Gate	Material	-	-	-	Aluminum	Aluminum	Aluminum	
	Finish	-	-	-	Anodized	Anodized	Anodized	
QR	Material	Resin	-	Resin	Resin	Resin	Resin	
	Finish	-	-	-	Painted	-	-	
Titanium cable fixing bolt		-	-	-	-	-	-	
Titanium pivot bolt		-	-	-	-	-	-	
Average Weight		174 g/pc	173 g/pc	174g /pc	-	-	-	
Note		-	Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature.	-	-	-	-	

Brake (Caliper Brake)

Series		SHIMANO	SHIMANO	SHIMANO	
Model no.		BR-R650	BR-R561	BR-R451	
Color	1	Silver	Silver	Black	
	2	-	Black	Silver	
Type		SUPER SLR Dual Pivot	NEW SUPER SLR Dual pivot	SUPER SLR Dual Pivot	
Reach (mm)		57	49	57	
Brake shoe	Standard	R55C2	R55C3	R50T2	
	Optional choice	R55C for Carbon rim R55C for Ceramic rim	R55C for Ceramic rim R55C3 for Carbon rim	-	
Compatibility		SUPER SLR	NEW SUPER SLR	SUPER SLR	
Assembly pivot nut (mm)	Front (mm)	10.5	X	X	X
		12.5	X	X	X
		18.0	X	X	X
		27.0	X	X	X
		32.0	-	-	-
	Rear (mm)	10.5	X	X	X
Cartridge shoe holder		X	X	-	
Tire guide bumpers		-	-	-	
QR		X	X	X	
Shoe angle adjusting		X	X	X	
Spring tension adjusting		-	-	-	
Maximum tire size		28C	28C	32C	
Rim width		19-26 mm	19-26 mm	19-26 mm	
Cartridge shoe holder	Material	Aluminum	Aluminum	-	
	Finish	Painted	Painted	-	
C-arm	Material	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Painted	
Y-arm	Material	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Painted	
Gate	Material	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Painted	
QR	Material	Zinc	Zinc	Resin	
	Finish	Plated	Plated	-	
Titanium cable fixing bolt		-	-	-	
Titanium pivot bolt		-	-	-	
Average Weight		-	-	-	
Note		Maximum tire size: 28 mm	Maximum tire size: 28 mm	QR Wider Open Maximum tire size: 32 mm	

ST

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Brake (Hydraulic disc brake)

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

Brake (Hydraulic disc brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-RS785	BR-RS505-F	BR-RS505-R	BR-RS405-F	BR-RS405-R
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Color	1	Series color (ULTEGRA)	Black	Black	Dark Gray	Dark Gray
	2	-	-	-	-	-
	3	-	-	-	-	-
Brake hose (kit)		SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black
	2	White	-	-	-	-
ICE TECHNOLOGIES pad compatible caliper		X	X	X	X	X
Brake Pad	Standard 1	J02A Resin J03A Resin	J02A Resin J03A Resin	L02A Resin L03A Resin	K02S Resin K03S Resin	K02S Resin K03S Resin
	Standard 2	J04C Metal	L04C Metal	L04C Metal	-	-
	Option 1	G02A Resin G03A Resin	K02S Resin K03S Resin	K02S Resin K03S Resin	L02A Resin L03A Resin	L02A Resin L03A Resin
	Option 2	G03S Metal	K04S Metal	K04S Metal	-	-
Fixing bolt spec for rear mount	10mm mount	-	-	X	-	X
	15mm mount	-	-	X	-	X
	20mm mount	-	-	X	-	X
	25mm mount	-	-	X	-	X
	30mm mount	-	-	X	-	X
	35mm mount	-	-	X	-	X
	15.2mm	-	-	-	-	-
	18.7mm	X	-	-	-	-
Recommended brake lever		ST-R8070	ST-RS505	ST-RS505	ST-RS405 BL-RS600	ST-RS405 BL-RS600
Recommended disc brake rotor		SM-RT99	SM-RT81	SM-RT81	SM-RT81	SM-RT81
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		X	X	X	X	X
Mount type (available for IS mount with mount adapter)		Post-mount	Flat mount	Flat mount	Flat mount	Flat mount
Piston		2	2	2	2	2
Piston material		Ceramic	Ceramic	Ceramic	Resin	Resin
Caliper	MONO-BODY	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel	Steel
	Tool size	5 mm	4 mm	4 mm	4 mm	4 mm
	Anti loosen method	Snap ring	Bolt fix pin/snap ring	Bolt fix pin	Bolt fix pin/snap ring	Bolt fix pin
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average Weight		271 g/pair	151 g/pc	139 g/pc	-	-
Note						

Brake (Mechanical disc brake)

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		BR-R317	BR-RS305-F	BR-RS305-R
Brake Type		Mechanical disc brake	Mechanical disc brake	Mechanical disc brake
Color	1	Silver	Black	Black
	2	Black	-	-
Compatibility		NEW SUPER SLR	NEW SUPER SLR	NEW SUPER SLR
ICE TECHNOLOGIES pad compatible caliper		-	X	X
Pad	Standard	G01S Resin	K02S-R	K02S-R
	Option 1	-	L02A-R	L02A-R
	Option 2	-	-	-
	Option 3	-	-	-
Fixing bolt spec for rear mount	10 mm mount	-	-	X
	15 mm mount	-	-	X
	20 mm mount	-	-	X
	25 mm mount	-	-	X
	30 mm mount	-	-	X
	35 mm mount	-	-	X
Recommended Brake Lever		BL-R2000	-	-
Recommended disc brake rotor		SM-RT54 (160mm) SM-RT81 (140mm)	SM-RT54/56 (160mm) SM-RT81 (140mm/160mm)	SM-RT54/56 (160mm) SM-RT81 (140mm/160mm)
Mount Type		Post mount	FLAT mount	FLAT mount
Piston		1	1	1
Piston material		-	-	-
Caliper	MONO-BODY	-	-	-
	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel
	Tool size	5 mm	4 mm	4 mm
	Anti loosen method	Snap ring	Bolt fix pin/snap ring	Bolt fix pin
Pad mount		Pad axle	Pad axle	Pad axle
Average weight		-	-	-
Note		SHIMANO logo		

Brake (V-BRAKE)

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

Brake (Cantilever Brake)

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

Brake Cable

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

Rear Derailleur

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		RD-R9100-SS	RD-9000-SS	RD-R8000-SS	RD-R8000-GS	RD-6800-SS	RD-6800-GS
Pulley cage		SS	SS	SS	GS	SS	GS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		11	11	11	11	11	11
Compatible chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11
Top-Normal spring type	SHIMANO SHADOW RD	X	-	X	X	-	-
	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	-	X	-	-	X	X
Mount	Direct attachment (Conventional)	X*	X	X*	X*	X	X
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Cable adjuster		X	X	X	X	X	X
Max. front difference		16T	16T	16T	16T	16T	16T
Total capacity		35T	33T	35T	39T	33T	37T
Low sprocket	Max.	30T	28T	30T	34T	28T	32T
	Min.	25T	23T	25T	28T	23T	28T
Top sprocket	Max.	14T	14T	14T	12T	14T	12T
	Min.	11T	11T	11T	11T	11T	11T
Fluoroc coated link bushings		4	4	4	4	4	4
Pulley	G pulley bearing	X	X	X	X	X	X
	T pulley bearing	X	X	X	X	X	X
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	SUS	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	X	X	X	X	X	X
Bracket	Material	Aluminum	-	-	-	-	-
	Finish	Anodized	-	-	-	-	-
B-axle	Hollow axle	X	X	X	X	X	X
	Material	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	-	-	-	-	-
B-axle 2	Hollow axle	-	-	-	-	-	-
	Material	Aluminum	-	-	-	-	-
	Finish	Anodized	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
P-axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Plate body	Material	CFRP	CFRP	GFRP	GFRP	CFRP	CFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	GFRP	GFRP	Aluminum	Aluminum
	Finish	Anodized	Anodized	-	-	Painted	Painted
Outer plate	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Coated	Clear Coated	Painted	Painted	Painted	Painted
Inner plate	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Coated	Clear Coated	Painted	Painted	Painted	Painted
Average Weight		158 g	158 g	200 g	210 g	195 g	207 g
Note		*w/o bracket spec available		*w/o bracket spec available	*w/o bracket spec available		

Rear Derailleur

Series		SHIMANO ULTEGRA RX	105	105	105	105	TIAGRA
Model no.		RD-RX800-GS	RD-R7000-SS	RD-R7000-GS	RD-5701-SS	RD-5701-GS	RD-4700-SS
Pulley cage		GS	SS	GS	SS	GS	SS
Color	1	Series color	Silky black	Silky black	Black	Black	Series color
	2	-	Spark silver	Spark silver	Silver	Silver	-
Rear speeds		11	11	11	10	10	10
Compatible chain		HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG 10-speed	HG 10-speed	HG-X Chain
Top-Normal spring type	SHIMANO SHADOW RD	-	X	X	-	-	-
	SHIMANO SHADOW RD+	X	-	-	-	-	-
	Double servo	-	-	-	X	X	X
Mount	Direct attachment (Conventional)	X*	X*	X*	X	X	X
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Cable adjuster		X	X	X	X	X	X
Max. front difference		16T	16T	16T	16T	16T (Front double) 22T (Front triple)	16T
Total capacity		39T	35T	39T	34T	40T	33T
Low sprocket	Max.	34T	30T	34T	30T	32T (Front double) 30T (Front triple)	28T
	Min.	28T	25T	28T	25T	27T (Front double) 25T (Front triple)	25T
Top sprocket	Max.	11T	14T	12T	14T	12T (Front double) 14T (Front triple)	14T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		4	2	2	2	2	2
Pulley	G pulley bearing	X	-	-	-	-	-
	T pulley bearing	X	-	-	-	-	-
	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	X	X	X	X	X	X
Bracket	Material	Aluminum	-	-	-	-	-
	Finish	Anodized	-	-	-	-	-
B-axle	Hollow axle	X	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Stainless steel
	Finish	-	-	-	Plated	Plated	-
B-axle 2	Hollow axle	-	-	-	-	-	-
	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	Plated	Plated	Plated	Plated	Plated
Plate body	Material	Aluminum	GFRP	GFRP	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	GFRP	GFRP	Steel	Steel	Steel
	Finish	Painted	-	-	Plated	Plated	Plated
Outer plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Plated
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Plated
Average Weight		248 g	225 g	232 g	230 g	243g	-
Note		*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available			

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

Rear Derailleur

Series		TIAGRA	SORA	SORA	SHIMANO	CLARIS	CLARIS
Model no.		RD-4700-GS	RD-R3000-SS	RD-R3000-GS	RD-R350-GS	RD-R2000-SS	RD-R2000-GS
Pulley cage		G5	SS	G5	G5	SS	G5
Color	1	Series color	Series color	Series color	Black	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		10	9	9	9	8	8
Compatible chain		HG-X Chain	HG 9-speed	HG 9-speed	HG 9-speed	HG 8-speed	HG 8-speed
Top-Normal spring type	SHIMANO SHADOW RD	-	-	-	-	-	-
	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	X	X	X	X	X	X
Mount	Direct attachment (Conventional)	X	X	X	X	X	X
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Cable adjuster		X	X	X	X	X	X
Max. front difference		16T (Front double) 20T (Front triple)	16T	20T	20T	16T	20T
Total capacity		41T	37T	43T	41T	37T	43T
Low sprocket	Max.	34T (Front double) 32T (Front triple)	32T	34T	32T	32T	34T
	Min.	28T (Front double) 25T (Front triple)	25T	28T	25T	25T	28T
Top sprocket	Max.	12T	14T	14T	14T	13T	13T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		2	2	2	2	-	-
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley bolt	X	-	-	X	X	X
Bracket	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
B-axle	Hollow axle	-	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	Plated	Plated
B-axle 2	Hollow axle	-	-	-	-	-	-
	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Plate body	Material	Aluminum	Resin	Resin	Resin	Resin	Resin
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Painted	Painted	Painted	Painted	Painted
Average Weight		-	-	-	-	-	-
Note					SHIMANO logo		

Rear Derailleur

Series		TOURNEY A070
Model no.		RD-A070
Pulley cage		Smart
Color	1	Series color
	2	-
Rear speeds		7
Compatible chain		HG
Top-Normal spring type	SHIMANO SHADOW RD	-
	SHIMANO SHADOW RD+	-
	Double servo	
Mount	Direct attachment (Conventional)	X
	Riveted adapter (Road type)	X
	Riveted adapter (BMX-Track type)	-
Cable adjuster		X
Max. front difference		20T
Total capacity		37T
Low sprocket	Max.	28T
	Min.	28T
Top sprocket	Max.	14T
	Min.	11T
Fluoric coated link bushings		-
Pulley	G pulley bearing	-
	T pulley bearing	-
	Teeth	11/13T
	Bolts material	Steel
	Sunken type pulley bolt	-
Bracket	Material	-
	Finish	-
B-axle	Hollow axle	-
	Material	Steel
	Finish	MnPO4
B-axle 2	Hollow axle	-
	Material	-
	Finish	-
Bracket body	Material	Resin
	Finish	-
P-axle	Material	Steel
	Finish	Plated
Plate body	Material	Resin
	Finish	-
Outer link	Material	Steel
	Finish	Painted
Inner link	Material	Steel
	Finish	Zinc plated
Outer plate	Material	Steel
	Finish	Painted
Inner plate	Material	Steel
	Finish	Painted
Average Weight		-
Note		

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Front Derailleur

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	
Model no.		FD-R9100-F	FD-R9100-B	FD-9000-F	FD-9000-B	FD-R8000-F	FD-R8000-B	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	2	2	2	
	Rear	11	11	11	11	11	11	
Compatible chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	
Action	TOP SWING	-	-	-	-	-	-	
	Down Swing	X	X	X	X	X	X	
Mount	Clamp Band (mm)	28.6	-	X (w/ S size adapter)	-	X (w/ S size adapter)	-	X (w/ S size adapter)
		31.8	-	X	-	X	-	X
		34.9	-	X	-	X	-	X
	Brazed-On	X	-	X	-	X	-	
Cable adjust		X	X	-	-	X	X	
Top-Pull exclusive option		-	-	-	-	-	-	
Chainline (mm)		43.5	43.5	43.5	43.5	43.5	43.5	
Chain stay angle		61-66	61-66	61-66	61-66	61-66	61-66	
Top gear teeth		50-55T	50-55T	50-55T	50-55T	46-53T	46-53T	
Total capacity		16T	16T	16T	16T	16T	16T	
Applicable Top-Mid tooth difference		-	-	-	-	-	-	
Angled clamp band design		-	-	-	-	-	-	
Multi-Bearing construction		2	2	-	-	-	-	
Link bushings		8	8	7	7	8	8	
Front clamp band	Material	-	Aluminum	-	Aluminum	-	Aluminum	
	Finish	-	Painted	-	Anodized	-	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Anodized	Anodized	Painted	Painted	
Outer link	Material	CFRF	CFRF	Aluminum	Aluminum	GFRP	GFRP	
	Finish	Plated/Painted	Plated/Painted	Anodized	Anodized	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted	
Chain guide	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Chrome plated	Chrome plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Steel	Steel	Aluminum	Aluminum	Stainless steel	Stainless steel	
	Finish	Black	Black	Anodized	Anodized	Black	Black	
Average Weight (Band type: L size, Direct type: w/ bolt)		70 g	85 g	66 g	78 g	92 g	106 g	
Note								

Front Derailleur

Series		ULTEGRA	ULTEGRA	105	105	105	105	
Model no.		FD-6800-F	FD-6800-B	FD-R7000-F	FD-R7000-B	FD-5700-F	FD-5700-B	
Color	1	Series color	Series color	Silky black	Silky black	Black	Black	
	2	-	-	Spark silver	Spark silver	Silver	Silver	
Speeds	Front	2	2	2	2	2	2	
	Rear	11	11	11	11	10	10	
Compatible chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG 10-speed	HG 10-speed	
Action	TOP SWING	-	-	-	-	-	-	
	Down Swing	X	X	X	X	X	X	
Mount	Clamp Band (mm)	28.6	X (w/ S size adapter)	-	X (w/ Adapter S)	-	X (w/ S size adapter)	
		31.8	-	X	-	X	-	X
		34.9	-	X	-	X	-	X
	Brazed-On	X	-	X	-	X	-	
Cable adjust		-	-	X	X	-	-	
Top-Pull exclusive option		-	-	-	-	-	-	
Chainline (mm)		43.5	43.5	43.5	43.5	43.5	43.5	
Chain stay angle		61-66	61-66	61-66	61-66	61-66	61-66	
Top gear teeth		46-53T	46-53T	46-53T	46-53T	50-56T	50-56T	
Total capacity		16T	16T	16T	16T	16T	16T	
Applicable Top-Mid tooth difference		-	-	-	-	-	-	
Angled clamp band design		-	-	-	X	-	-	
Multi-Bearing construction		-	-	-	-	-	-	
Link bushings		7	7	7	7	-	-	
Front clamp band	Material	-	Aluminum	-	Aluminum	-	Aluminum	
	Finish	-	Painted	-	Painted	-	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Outer link	Material	Aluminum	Aluminum	GFRP	GFRP	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Aluminum	
	Finish	Painted	Painted	Plated	Plated	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome Plated	Chrome Plated	Chrome plated	Chrome plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	Black	Black	-	-	
Average Weight (Band type: L size, Direct type: w/ bolt)		89 g	104 g	95 g	111 g	89 g	105 g	
Note				-	-			

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Front Derailleur

Series		105	105	TIAGRA	TIAGRA	TIAGRA	TIAGRA	
Model no.		FD-5703-F	FD-5703-B	FD-4700-F	FD-4700-B	FD-4703-F	FD-4703-B	
Color	1	Black	Black	Series color	Series color	Series color	Series color	
	2	Silver	Silver	-	-	-	-	
Speeds	Front	3	3	2	2	3	3	
	Rear	10	10	10	10	10	10	
Compatible chain		HG 10-speed	HG 10-speed	HG-X chain/ CN-HG500	HG-X chain/ CN-HG500	HG-X chain/ CN-HG500	HG-X chain/ CN-HG500	
Action	TOP SWING	-	-	-	-	-	-	
	Down Swing	X	X	X	X	X	X	
Mount	Clamp Band (mm)	28.6	-	X (w/ S size adapter)	-	X*	-	X*
		31.8	-	X	-	X	-	X
		34.9	-	X	-	X	-	X
	Brazed-On	X	-	X	-	X	-	
Cable adjust		-	-	-	-	-	-	
Top-Pull exclusive option		-	-	-	-	-	-	
Chainline (mm)		45	45	43.5	43.5	45	45	
Chain stay angle		63-66	63-66	61-66	61-66	63-66	63-66	
Top gear teeth		50T	50T	46-52T	46-52T	50T	50T	
Total capacity		20T	20T	16T	16T	20T	20T	
Applicable Top-Mid tooth difference		11T	11T	-	-	11T	11T	
Angled clamp band design		-	-	-	-	-	-	
Multi-Bearing construction		-	-	-	-	-	-	
Link bushings		-	-	-	-	-	-	
Front clamp band	Material	-	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	-	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Average Weight (Band type: L size, Direct type: w/ bolt)		114 g	132 g	-	-	-	-	
Note					* 28.6mm Clamp band: 31.8mm w/ Adapter		* 28.6mm Clamp band: 31.8mm w/ Adapter	

Front Derailleur

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SORA	SORA	
Model no.		FD-CX70-F-T	FD-CX70-F-D	FD-CX70-B-T	FD-CX70-B-D	FD-R3000-F	FD-R3000-B	
Color	1	Gray	Gray	Gray	Gray	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	2	2	2	
	Rear	10	10	10	10	9	9	
Compatible chain		HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	-	-	
Action	TOP SWING	-	-	-	-	-	-	
	Down Swing	X	X	X	X	X	X	
Mount	Clamp Band (mm)	28.6	-	-	X (w/ S size adapter)	X (w/ S size adapter)	-	X (Adapter)
		31.8	-	-	X	X	-	X (Adapter)
		34.9	-	-	X	X	-	X
	Brazed-On	X	X	-	-	X	-	
Cable adjust		-	-	-	-	-	-	
Top-Pull exclusive option		X	-	X	-	-	-	
Chainline (mm)		43.5	43.5	43.5	43.5	43.5	43.5	
Chain stay angle		63-66	63-66	63-66	63-66	61-66	61-66	
Top gear teeth		46-52T	46-52T	46-52T	46-52T	46-52T	46-52T	
Total capacity		16T	16T	16T	16T	16T	16T	
Applicable Top-Mid tooth difference		-	-	-	-	-	-	
Angled clamp band design		-	-	-	-	X	X	
Multi-Bearing construction		-	-	-	-	-	-	
Link bushings		7	7	7	7	-	-	
Front clamp band	Material	-	-	Aluminum	Aluminum	-	Aluminum	
	Finish	-	-	Painted	Painted	-	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	
	Finish	-	-	-	-	Ni plated	Ni plated	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	
	Finish	-	-	-	-	Zinc plated	Zinc plated	
Average Weight (Band type: L size, Direct type: w/ bolt)		92 g	87 g	108 g	103 g	-	-	
Note								

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Front Derailleur

Series		SORA	SORA	SHIMANO	CLARIS	CLARIS	CLARIS
Model no.		FD-R3030-F	FD-R3030-B	FD-R353-B	FD-R2000-F	FD-R2000-B	FD-R2030-F
Color	1	Series color	Series color	Black	Series color	Series color	Series color
	2	-	-	-	-	-	-
Speeds	Front	3	3	3	2	2	3
	Rear	9	9	9	8	8	8
Compatible chain		-	-	HG 9-speed	HG 8-speed	HG 8-speed	HG 8-speed
Action	TOP SWING	-	-	-	-	-	-
	Down Swing	X	X	X	X	X	X
Mount	Clamp Band (mm)	28.6	-	X (Adapter)	-	-	X (Adapter)
		31.8	-	X (Adapter)	-	-	X (Adapter)
		34.9	-	X	X	-	X
	Brazed-On	X	-	-	X	-	X
Cable adjust		-	-	-	-	-	-
Top-Pull exclusive option		-	-	-	-	-	-
Chainline (mm)		45	45	45	43.5	43.5	45
Chain stay angle		63-66	63-66	63-66	61-66	61-66	63-66
Top gear teeth		50T	50T	50T	46-52T	46-52T	50T
Total capacity		20T	20T	20T	16T	16T	20T
Applicable Top-Mid tooth difference		11T	11T	11T	-	-	11T
Angled clamp band design		X	X	-	X	X	X
Multi-Bearing construction		-	-	-	-	-	-
Link bushings		-	-	-	-	-	-
Front clamp band	Material	-	Aluminum	Aluminum	-	Steel	-
	Finish	-	Painted	Painted	-	Painted	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Ni plated	Ni plated	Ni plated	Ni Plated	Ni Plated	Ni Plated
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average Weight (Band type: L size, Direct type: w/ bolt)		-	-	-	-	-	-
Note				SHIMANO logo			

Front Derailleur

Series		CLARIS	TOURNEY	TOURNEY	A050	
Model no.		FD-R2030-B	FD-A070-A	FD-A073	FD-A050	
Color	1	Series color	Series color	Series color	Series color	
	2	-	-	-	-	
Speeds	Front	3	2	3	2 (Friction)	
	Rear	8	7	7	7	
Compatible chain		HG 8-speed	HG	HG	HG	
Action	TOP SWING	-	-	-	-	
	Down Swing	X	X	X	X	
Mount	Clamp Band (mm)	28.6	X (Adapter)	X (w/ S size adapter)	X (w/ S size adapter)	X
		31.8	X (Adapter)	X (w/ M size adapter)	X (w/ M size adapter)	X
		34.9	X	X	X	-
	Brazed-On		-	-	-	-
Cable adjust		-	-	-	-	
Top-Pull exclusive option		-	-	-	-	
Chainline (mm)		45	43.5	45	43.5	
Chain stay angle		63-66	61-66	63-66	61-66	
Top gear teeth		50T	50T	50T	53T	
Total capacity		20T	16T	20T	16T	
Applicable Top-Mid tooth difference		11T	-	11T	16T	
Angled clamp band design		X	X	X	-	
Multi-Bearing construction		-	-	-	-	
Link bushings		-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Zinc plated	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Steel	
	Finish	Painted	Painted	Painted	Zinc plated	
Outer link	Material	Aluminum	Steel	Steel	Steel+Resin	
	Finish	Painted	Painted	Painted	Zinc plated	
Inner link	Material	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Zinc plated	
Chain guide	Material	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Painted	Painted	Chrome plated	
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	
	Finish	Ni Plated	Ni plated	Ni plated	Zinc plated	
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average Weight (Band type: L size, Direct type: w/ bolt)		-	-	-	-	
Note						

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Front Chainwheel

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA
Model no.		FC-R9100	FC-R9100-P	FC-R9100-P w/o gears	FC-9000	FC-R8000	FC-6800
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		11	11	11	11	11	11
Compatible chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11
Chainline (mm)		43.5	43.5	43.5	43.5	43.5	43.5
P.C.D. left / right (mm)		110	110	110	110	110	110
Gear arms (pcs)		4	4	4	4	4	4
Chainring combination		55-42T 54-42T 53-39T 52-36T 50-34T	55-42T (option) 54-42T (option) 53-39T 52-36T 50-34T	-	55-42T 54-42T 53-39T 52-38T 52-36T 50-34T	50-34T 52-36T 53-39T 46-36T	50-34T 52-36T 53-39T 46-36T
Q-factor		146	146	146	146	146	146.6
Crank arm length (mm)	160	-	-	-	-	-	-
	165	X	-	X	X	X	X
	167.5	X	-	X	X	-	-
	170	X	X	X	X	X	X
	172.5	X	X	X	X	X	X
	175	X	X	X	X	X	X
	177.5	X	-	X	X	-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain guard	X	X	X	X	X	X
HOLLOWTECH II		X	X	X	X	X	X
2-PIECE CRANKSET		-	-	-	-	-	-
HOLLOWTECH crank arm		X	X	X	X	X	X
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		X	X	X	X	X - (46-36T)	X - (46-36T)
Compatible BB type	Outboard	X	X	X	X	X	X
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	BB-R9100	BB-R9100	BB-R9100	BB-R9100	SM-BBR60	SM-BBR60
	Pressfit	SM-BB92-41B	SM-BB92-41B	SM-BB92-41B	SM-BB92-41B	SM-BBR60-PB	SM-BB72-41B
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-	-
Threaded BB shell width (mm)	68	X	X	X	X	X	X
	70	X	X	X	X	X	X
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum/ CFRP	Aluminum/ CFRP	Aluminum/ CFRP	Aluminum/CFRP or GFRP	Aluminum/CFRP Aluminum (46-36T)	Aluminum/CFRP Aluminum (46-36T)
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Outer / middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing bolt	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Crank fixing bolt included		X	X	X	X	X	X
Average Weight (170mm, w/o BB)		650 g (55-42T) 642 g (54-42T) 626 g (53-39T) 624 g (52-36T) 614 g (50-34T)	696 g (53-39T) 695 g (52-36T) 685 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)
Note			With power meter Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh	With power meter Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh		-	

Front Chainwheel

Series		105	SHIMANO	DURA-ACE	105	105	SHIMANO
Model no.		FC-R7000	FC-R5510	FC-7710	FC-5750	FC-5703	FC-CX50
Color	1	Silky black	Black	Series color	Black	Black	Silver
	2	Spark silver	-	-	-	-	Black
Rear speeds		11	11	-	10	10	10
Compatible 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
Chainline (mm)		43.5	43.5	42.5	43.5	45	43.5
P.C.D. left / right (mm)		110	110	144	110	130 / 74	110
Gear arms (pcs)		4	4	5	5	5	5
Chainring combination		50-34T 52-36T 53-39T	52-36T (NEW) 50-34T 46-36T (NEW)	45T>>55T (1/2"X1/8" / 1/2"X3/32")	50-34T	50-39-30T	46-36T
Q-factor		146	150	136.3	146	154.76	150
Crank arm length (mm)	160	X	-	-	-	-	-
	165	X	X	X	X	X	-
	167.5	-	-	X	-	-	-
	170	X	X	X	X	X	X
	172.5	X	X	X	X	X	X
	175	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain guard	X	X	X	X	X	X
HOLLOWTECH II		X	-	X	X	X	-
2-PIECE CRANKSET		-	X	-	-	-	X
HOLLOWTECH crank arm		X	-	X	X	X	-
OCTALINK		-	-	X	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	-	X	X	X
	OCTALINK	-	-	X	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	SM-BBR60	BB-R5500	BB-7710 / 7700	SM-BB5700	SM-BB5700	BB-R5500
	Pressfit	SM-BB72-41B	BB-R5500-PB	-	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	109.5	-	-	-
Threaded BB shell width (mm)	68	X	X	X	X	X	X
	70	X	X	X	X	X	X
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	-	Steel	Steel	Steel
	Finish	Plated	Plated	-	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum/ GFRP	Aluminum/Resin	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	-	-	-	-	Aluminum	-
	Finish	-	-	-	-	Anodized	-
Inner ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	-	-	-	-	Stainless steel	-
	Finish	-	-	-	-	-	-
Crank fixing bolt included		X	X	X	X	X	X
Average Weight (170mm, w/o BB)		713.4 g (50-34T) 742.6 g (52-36T) 757.8 g (53-39T)	908 g (50-34T)	82 g (46T, 1 / 2"x 1 / 8")	716 g	831 g	798 g
Note		-	-	-	-	-	-

Front Chainwheel

Series		TIAGRA	TIAGRA	SHIMANO	SHIMANO	SORA	SORA
Model no.		FC-4700	FC-4703	FC-R460	FC-R5400	FC-R3030	FC-R3030-CG
Color	1	Series color	Series color	Black	Black	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		10	10	10	10	9	9
Compatible chain		Super Narrow HG 10-speed	Super Narrow HG 10-speed	HG-X 10-speed	HG-X 10speed	HG 9-speed	HG 9-speed
Chainline (mm)		43.5	45	43.5	43.5	45	45
P.C.D. left / right (mm)		110	110/74	110	110	110/74	110/74
Gear arms (pcs)		4	4	5	5	4	5
Chainring combination		52-36T 50-34T	50-39-30T	48-34T 46-34T	50-34T	50-39-30T	50-39-30T
Q-factor		150	158.8	149.9	150.3	158.8	158.8
Crank arm length (mm)	160	-	-	-	-	-	-
	165	X	X	X	-	X	X
	167.5	-	-	-	-	-	-
	170	X	X	X	X	X	X
	172.5	X	X	-	-	-	-
	175	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	-	X
	Without chain guard	X	X	X	X	X	-
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		X	X	X	X	X	X
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	X	X	X	X
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	BB-R5500	BB-R5500	BB-R5500	BB-R5500	BB-R5500	BB-R5500
	Pressfit	BB-R5500-PB	BB-R5500-PB	SM-BB71-41B	BB-R5500-PB	BB-R5500-PB	BB-R5500-PB
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-	-
Threaded BB shell width (mm)	68	X	X	X	X	X	X
	70	X	X	X	X	X	X
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	-	Steel	Steel
	Finish	Plated	Plated	Plated	-	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum/GFRP	Aluminum/GFRP	Aluminum	Aluminum	Aluminum/Resin	Aluminum/Resin
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	-	Aluminum	-	-	Steel	Steel
	Finish	-	Anodized	-	-	Painted	Painted
Inner ring	Material	Aluminum	Steel	Aluminum	Aluminum	Steel	Steel
	Finish	Anodized	Plated	Anodized	Anodized	Painted	Painted
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	SUS	SUS	SUS
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	-	Stainless steel	-	-	SUS	SUS
	Finish	-	-	-	-	-	-
Crank fixing bolt included		X	X	X	X	X	X
Average Weight (170mm, w/o BB)		-	-	-	-	-	-
Note				SHIMANO logo			w/CG spec

Front Chainwheel

Series		SORA	SORA	SHIMANO	CLARIS	CLARIS	CLARIS
Model no.		FC-R3000	FC-R3000-CG	FC-R345	FC-R2030	FC-R2030-CG	FC-R2000
Color	1	Series color	Series color	Silver	Series color	Series color	Series color
	2	-	-	Black	-	-	-
Rear speeds		9	9	9	8	8	8
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 8-speed	HG 8-speed	HG 8-speed
Chainline (mm)		43.5	43.5	43.5	45	45	43.5
P.C.D. left / right (mm)		110	110	110	110/74	110/74	110
Gear arms (pcs)		4	5	5	4	4	4
Chainring combination		50-34T	50-34T	50-34T	50-39-30T	50-39-30T	50-34T
Q-factor		150	150	152.2	158.8	158.8	150
Crank arm length (mm)	160	-	-	-	-	-	-
	165	X	X	-	x	x	x
	167.5	-	-	-	-	-	-
	170	X	X	X	x	x	x
	172.5	-	-	-	-	-	-
	175	X	X	X	x	x	x
	177.5	-	-	-	-	-	-
Optional chain guard	With chain guard	-	X	X	-	X	-
	Without chain guard	X	-	X	X	-	X
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		X	X	-	X	X	X
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	X	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	-	X	X	X
	OCTALINK	-	-	X	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	BB-RS500	BB-RS500	BBES300	BB-RS500	BB-RS500	BB-RS500
	Pressfit	BB-RS500-PB	BB-RS500-PB	-	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	113	-	-	-
Threaded BB shell width (mm)	68	X	X	X	X	X	X
	70	X	X	X	X	X	X
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	-	Steel	Steel	Steel
	Finish	Plated	Plated	-	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum/Resin	Aluminum/Resin	Aluminum	Steel/Resin	Steel/Resin	Steel/Resin
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Middle ring	Material	-	-	-	Steel	Steel	-
	Finish	-	-	-	Painted	Painted	-
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	SUS	SUS	Stainless steel	SUS	SUS	SUS
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	SUS	SUS	-	SUS	SUS	SUS
	Finish	-	-	-	-	-	-
Crank fixing bolt included		X	X	X	X	X	X
Average Weight (170mm, w/o BB)		-	-	-	-	-	-
Note			w/CG spec				

ST

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BR

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BR

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FC

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WH

HP

Front Chainwheel

Series		CLARIS	SHIMANO	TOURNEY A070	TOURNEY
Model no.		FC-R2000-CG	FC-RS200	FC-A070	FC-A073
Color	1	Series color	Black	Series color	Series color
	2	-	-	-	-
Rear speeds		8	8	7/8	7/8
Compatible chain		HG 8-speed	HG 8-speed	HG	HG
Chainline (mm)		43.5	43.5	43.5	45
P.C.D. left / right (mm)		110	110	Riveted	Riveted
Gear arms (pcs)		4	5arms	5	5
Chainring combination		50-34T	50-34T 46-34T	50-34T	50-39-30T
Q-factor		150	153.7	169	171.5
Crank arm length (mm)	160	-	-	-	-
	165	x	X	X	X
	167.5	-	-	-	-
	170	x	X	X	X
	172.5	-	-	-	-
	175	x	X	-	-
	177.5	-	-	-	-
	180	-	-	-	-
Optional chain guard	With chain guard	X	X	X	X
	Without chain guard	-	X	X	X
HOLLOWTECH II		-	-	-	-
2-PIECE CRANKSET		X	-	-	-
HOLLOWTECH crank arm		-	-	-	-
OCTALINK		-	-	-	-
HOLLOWGLIDE		-	-	-	-
Compatible BB type	Outboard	X	-	-	-
	OCTALINK	-	-	-	-
	Square	-	X	X	X
Recommended BB	Threaded (normal)	BB-RS500	BB-UN26	BB-UN26	BB-UN26
	Pressfit	BB-RS500-PB	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	MM110	MM110	LL113
Threaded BB shell width (mm)	68	X	X	X	X
	70	X	X	X	X
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	-	-	-
	Finish	Plated	-	-	-
Spider arm	Material	-	-	-	-
	Finish	-	-	-	-
Spider arm cover	Material	-	-	-	-
	Finish	-	-	-	-
Outer ring	Material	Steel/Resin	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Middle ring	Material	-	-	-	Steel
	Finish	-	-	-	Painted
Inner ring	Material	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	SUS	Stainless steel	-	-
	Finish	-	-	-	-
Inner ring fixing bolt	Material	SUS	-	-	-
	Finish	-	-	-	-
Crank fixing bolt included		X	X	-	-
Average Weight (170mm, w/o BB)		-	-	-	-
Note					

Bottom Bracket (HOLLOWTECH II)

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

ARCHIVE

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

Bottom Bracket

Series		DURA-ACE	DURA-ACE	105	TIAGRA	TOURNEY A070	
Model no.		BB-7700	BB-7710	BB-5500	BB-ES51	BB-UN26	
Spindle	Hollow pipe	X	X	X	X	-	
	OCTALINK	X	X	X	X	-	
	Square type	-	-	-	-	X	
Axle length / shell width (mm)	109.5	68 (BC1.37)	X	X	X (for double)	-	
		70 (M36)	X	-	X (for double)	-	
	MM110.0	68 (BC1.37)	-	-	-	-	X (for double)
		70 (M36)	-	-	-	-	X (for double)
	LL113.0	68 (BC1.37)	-	-	-	-	X (for triple)
		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	Material	Steel	Steel	Steel	Steel	Steel
Finish		Plated	Plated	Plated	Plated	Plated	
Left hand adapter	Material	Aluminum	Aluminum	Aluminum	Resin	Resin	
	Finish	Anodized	Anodized	Anodized	-	-	
Average weight		173 g	244 g	-	-	-	
Note		-	For track	-	-	-	

ARCHIVE

Cassette Sprocket

Series		DURA-ACE	ULTEGRA	ULTEGRA
Model no.		CS-R9100	CS-R8000	CS-6800
Type		HG-EV	HG-EV	HG-EV
Speeds		11-speed	11-speed	11-speed
Compatible chain		HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11
Combination name (Group name)		11-25T 11-28T 11-30T 12-25T 12-28T	11-25T 11-28T 11-30T 12-25T 14-28T 11-32T	11-23T
Combination *Titanium gear	Combination 1	11-12-13-14-15-16-17*-19*-21*-23*-25*T	11-12-13-14-15-16-17-19-21-23-25T	11-12-13-14-15-16-17-18-19-21-23T
	Combination 2	11-12-13-14-15-17-19*-21*-23*-25*-28*T	11-12-13-14-15-17-19-21-23-25-28T	-
	Combination 3	11-12-13-14-15-17-19*-21*-24*-27*-30*T	11-12-13-14-15-17-19-21-24-27-30T	-
	Combination 4	12-13-14-15-16-17-18*-19*-21*-23*-25*T	12-13-14-15-16-17-18-19-21-23-25T	-
	Combination 5	12-13-14-15-16-17-19*-21*-23*-25*-28*T	14-15-16-17-18-19-20-21-23-25-28T	-
	Combination 6	-	11-12-13-14-16-18-20-22-25-28-32T	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	2	1	1
	Material	Carbon	Carbon/Aluminum	Carbon/Aluminum
	Finish	-	Anodized	Anodized
Titanium gear	Finish	Titanium	-	-
Aluminum gear	Finish	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Average Weight		175 g (11-25T) 193 g (11-28T) 211 g (11-30T) 189 g (12-25T) 205 g (12-28T)	232 g (11-25T) 251 g (11-28T) 269 g (11-30T) 243 g (12-25T) 300 g (14-28T) 292 g (11-32T)	212 g
Note		*Titanium gear	-	-

Series		SHIMANO	105	105
Model no.		CS-HG800-11	CS-R7000	CS-HG700-11
Type		HG-EV	HG-EV	HG-EV
Speeds		11-speed	11-speed	11-speed
Compatible chain		HG-EV 11-speed/HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11
Combination name (Group name)		11-34T	11-28T 11-30T 11-32T 12-25T	11-34T
Combination *Titanium gear	Combination 1	11-13-15-17-19-21-23-25-27-30-34T	11-12-13-14-15-17-19-21-23-25-28T	11-13-15-17-19-21-23-25-27-30-34T
	Combination 2	-	11-12-13-14-15-17-19-21-24-27-30T	-
	Combination 3	-	11-12-13-14-16-18-20-22-25-28-32T	-
	Combination 4	-	12-13-14-15-16-17-18-19-21-23-25T	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	2	1	1
	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Titanium gear	Finish	-	-	-
Aluminum gear	Finish	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Aluminum	Steel	Steel
	Finish	Anodized	Nickel plated	Nickel plated
Average Weight		335 g	284 g (11-28T) 304 g (11-30T) 320 g (11-32T) 269 g (12-25T)	379 g
Note		-	-	-

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- CS
- HB
- FH
- WH
- WH
- HP

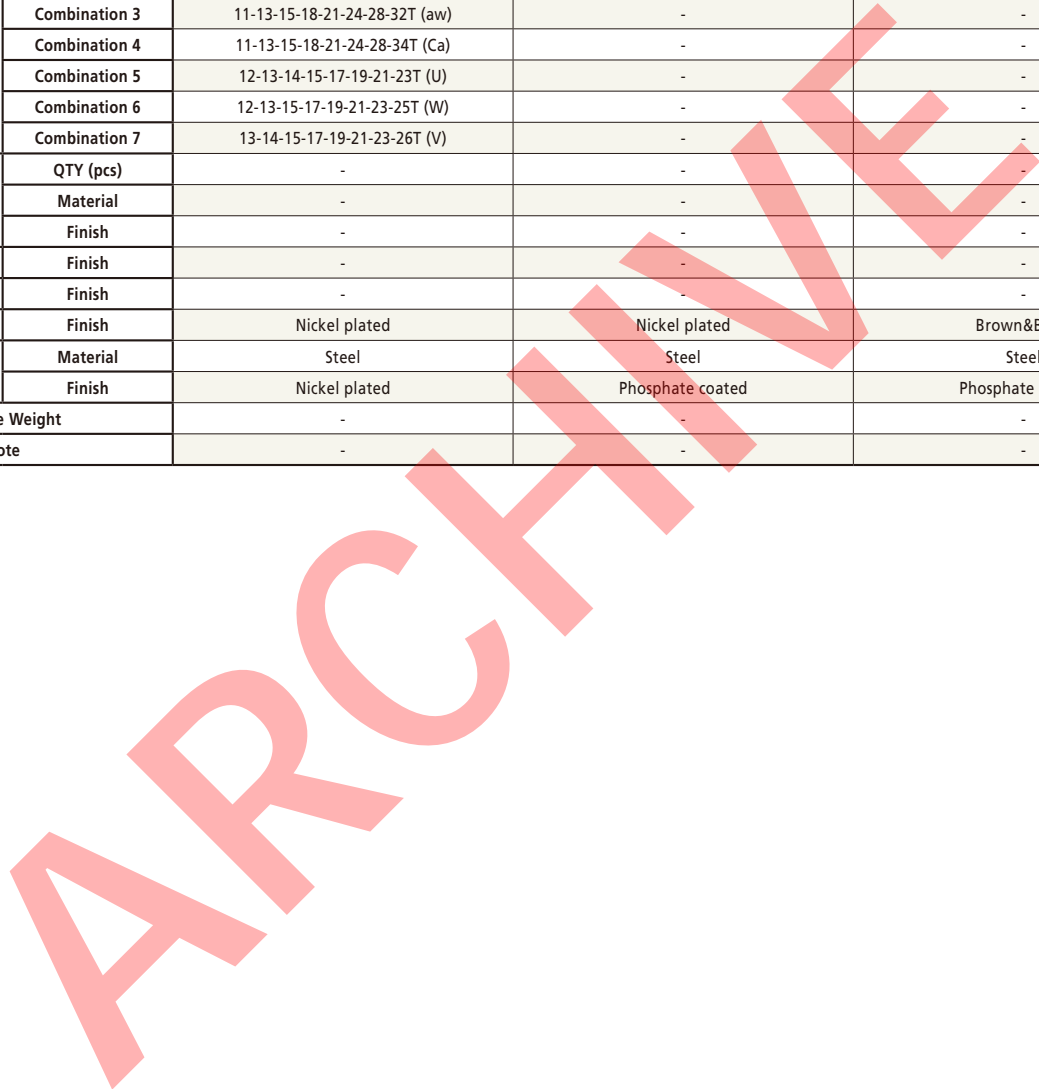
Cassette Sprocket

Series		DURA-ACE	ULTEGRA	105
Model no.		CS-7900	CS-6700	CS-5700
Type		HG	HG	HG
Speeds		10-speed	10-speed	10-speed
Compatible chain		HG 10-speed	HG 10-speed	HG 10-speed
Combination name (Group name)		11-25T 11-27T 11-28T 12-27T	11-25T 11-28T 12-25T 12-30T	11-25T 11-28T
Combination *Titanium gear	Combination 1	11-12-13-14-15-17-19-21-23-25T	11-12-13-14-15-17-19-21-23-25T	11-12-13-14-15-17-19-21-23-25T
	Combination 2	11-12-13-14-15-17-19-21-24-27T	11-12-13-14-15-17-19-21-24-28T	11-12-13-14-15-17-19-21-24-28T
	Combination 3	11-12-13-14-15-17-19-21-24-28T	12-13-14-15-16-17-19-21-23-25T	-
	Combination 4	12-13-14-15-16-17-19-21-24-27T	12-13-14-15-17-19-21-24-27-30T	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	2	1	1
	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Titanium gear	Finish	Titanium	-	-
Aluminum gear	Finish	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Nickel plated
Average Weight		180 g (11-25T) 184 g (11-27T) 187 g (11-28T) 189 g (12-27T)	229 g (11-25T) 242 g (11-28T) 238 g (11-25T) - (12-30T)	245 g (11-25T) 255 g (11-28T)
Note		-	-	-

Series		SHIMANO	SORA	SORA
Model no.		CS-HG500-10	CS-HG50-9	CS-HG400-9
Type		HG	HG	HG
Speeds		10-speed	9-speed	9-speed
Compatible chain		HG-X 10-speed/HG 10-speed/CN-HG500	HG 9-speed	HG 9-speed
Combination name (Group name)		11-25T 12-28T 11-32T 11-34T	11-30T (bQ) 12-25T 13-25T 14-25T	11-25T (G)
Combination *Titanium gear	Combination 1	11-12-13-14-15-17-19-21-23-25T	11-12-14-16-18-20-23-26-30T (bQ)	11-12-13-15-17-19-21-23-25T (G)
	Combination 2	12-13-14-15-17-19-21-23-25-28T	12-13-14-15-17-19-21-23-25T	-
	Combination 3	11-12-14-16-18-20-22-25-28-32T	13-14-15-16-17-19-21-23-25T	-
	Combination 4	11-13-15-17-19-21-23-26-30-34T	14-15-16-17-18-19-21-23-25T	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	-	-	-
	Material	-	-	-
	Finish	-	-	-
Titanium gear	Finish	-	-	-
Aluminum gear	Finish	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel	Steel
	Finish	Nickel plated	Nickel plated	Nickel plated
Average Weight		-	-	-
Note		-	-	NEW gear combination

Cassette Sprocket

Series		CLARIS	TOURNEY A070	TOURNEY A070
Model no.		CS-HG50-8	CS-HG41-7	CS-HG20-7
Type		HG	HG	HG
Speeds		8-speed	7-speed	7-speed
Compatible chain		CN-HG71	IG/HG	IG/HG
Combination name (Group name)		11-28T (bf) 11-30T (an) 11-32T (aw) 11-34T (Ca) 12-23T (U) 12-25T (W) 13-26T (V)	11-28T (ac)	12-28T (E)
Combination *Titanium gear	Combination 1	11-13-15-17-19-21-24-28T (bf)	11-13-15-18-21-24-28T (ac)	12-14-16-18-21-24-28T (E)
	Combination 2	11-13-15-17-20-23-26-30T (an)	-	-
	Combination 3	11-13-15-18-21-24-28-32T (aw)	-	-
	Combination 4	11-13-15-18-21-24-28-34T (Ca)	-	-
	Combination 5	12-13-14-15-17-19-21-23T (U)	-	-
	Combination 6	12-13-15-17-19-21-23-25T (W)	-	-
	Combination 7	13-14-15-17-19-21-23-26T (V)	-	-
Spider arm	QTY (pcs)	-	-	-
	Material	-	-	-
	Finish	-	-	-
Titanium gear	Finish	-	-	-
Aluminum gear	Finish	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Brown&Black
Lock ring	Material	Steel	Steel	Steel
	Finish	Nickel plated	Phosphate coated	Phosphate coated
Average Weight		-	-	-
Note		-	-	-



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- FC
- BB
- BB
- CS
- HB
- FH
- WH
- WH
- HP

Front Hub (Rim/Disc Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	105	105
Model no.		HB-9000	HB-7710	HB-7600	HB-6800	HB-R7000	HB-R7070
Color	1 Hub Shell	Series color	Silver	Silver	Series color	Silky black	Silky black
	1 QR	Series color	Silver	Silver	Series color	Black	-
	2 Hub Shell	-	-	-	-	Spark silver	-
	2 QR	-	-	-	-	Black	-
Brake Type		Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	CENTER LOCK disc brake
O.L.D. (mm)		100	100 (Front) 120 (Rear)	100 (Front) 120 (Rear)	100	100	100
Spoke hole	24H	X	-	-	-	-	-
	28H	X	X	X	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
Axle fixing method		QR	NUT	NUT	QR	QR	12mm E-THRU
QR skewer length	129 mm	-	-	-	-	-	-
	133 mm	X	-	-	X	X	-
Thru Axle (Length x Inner diameter)	100 x 8 mm	-	-	-	-	-	-
	100 x 12 mm	-	-	-	-	-	X
	100 x 15 mm	-	-	-	-	-	-
	110 x 20 mm	-	-	-	-	-	-
Flange distance (mm)		74.0	74.0 (Front) 72.5 (Single Thread, Rear) 67.0 (Double Thread, Rear)	72.3 (Front) 75.5 (Single Thread, Rear) 65.0 (Double Thread, Rear)	71.6	71.6	59.6
Offset (mm)		0	0(Front)/2.75 (Single Thread, Rear)/ 0 (Double Thread, Rear)	0(Front)/5.25(Rear)	0	0	6
P.C.D. Left/Right (mm)		38	38 (Front) 44 (Rear)	67	40	38	44/44
Flange diameter (mm)		48.4	46 (Front) 52 (Rear)	75	50.4	48.4	52.8
Seal		Labyrinth and Contact	Dust Cap	Dust Cap	Labyrinth and Contact	Contact	Contact
Internal grease sleeve		X	-	-	X	X	X
Digital adjustment system		X	-	-	X	-	-
Bearing	Stainless ball	X	X	X	-	-	-
	Cup	Super Finishing **	Polish	CBN/Polish	Polish	Polish	Polish
	Cone	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish
Disc mount	CENTER LOCK	-	-	-	-	-	X
	External serration disc brake rotor lock ring	-	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-	-
	6-bolt	-	-	-	-	-	-
	140 mm disc brake rotor compatible	-	-	-	-	-	X
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Steel	Steel	Aluminum	Steel	Aluminum
	Finish	Anodized	Plating	Plating	Anodized	-	Anodized
QR lever	Material	Aluminum	-	-	Aluminum	Aluminum	-
	Finish	Anodized	-	-	Anodized	Anodized	-
QR housing	Material	Anodized	-	-	Aluminum	Aluminum	-
	Finish	Silver	-	-	Anodized	Anodized	-
QR nut	Material	Anodized	-	-	Resin	Resin	-
	Finish	Silver	-	-	Black	Black	-
Radial lacing		X	-	-	X	X	-
Average Weight (w/o axle and lock ring)		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	165 g
Note		* Aero spoke hole available(18H/24H) ** Super Finishing	For Track * Dishing Distance R (Single Thread): 2.75mm / (Double Thread): 0			-	-

Front Hub (Rim/Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	TOURNEY A070
Model no.		HB-RS770	HB-RS400	HB-RS300	HB-RM40
Color	1 Hub Shell	Black / Silver	Black	Silver	Black
	1 QR	-	Black	Silver	Black
	2 Hub Shell	-	Silver	Black	Silver
	2 QR	-	Black	Black	Black
Brake Type		CENTER LOCK disc brake	Rim brake	Rim brake	Rim brake
O.L.D. (mm)		100	100	100	100
Spoke hole	24H	-	-	-	-
	28H	x	X	X	-
	32H	x	X	X	X
	36H	x	X	X	X
Axle fixing method		12mm E-THRU	QR	QR	QR
QR skewer length	129 mm	-	-	X	X
	133 mm	-	X	X	X
Thru Axle (Length x Inner diameter)	100 x 8 mm	-	-	-	-
	100 x 12 mm	x	-	-	-
	100 x 15 mm	-	-	-	-
	110 x 20 mm	-	-	-	-
Flange distance (mm)		59.6	71.6	71.6	71.6
Offset (mm)		6	0	0	0
P.C.D. Left/Right (mm)		44/44	38	38	38
Flange diameter (mm)		52.8 (left) / 52.8 (right)	48.4	48.4	46
Seal		Labyrinth & Contact	Contact	Contact	-
Internal grease sleeve		-	X	-	-
Digital adjustment system		-	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	CBN	Polish	-	-
	Cone	CBN	CBN	-	-
Disc mount	CENTER LOCK	x	-	-	-
	External serration disc brake rotor lock ring	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-
	6-bolt	-	-	-	-
	140 mm disc brake rotor compatible	x	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Steel	Steel	Steel
	Finish	Anodized	-	-	-
QR lever	Material	-	Aluminum	Aluminum	Steel
	Finish	-	Painted	Painted	Plated
QR housing	Material	-	Aluminum	Steel	Steel
	Finish	-	Painted	Painted	Plated
QR nut	Material	-	Resin	Resin	Resin
	Finish	-	Black	Black	Black
Radial lacing		-	X	X	-
Average Weight (w/o axle and lock ring)		125 g	-	-	-
Note		-	-	-	-

ST

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BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

FREEHUB (Rim/Disc Brake)

Series		DURA-ACE	ULTEGRA	105	105	SHIMANO	SHIMANO	
Model no.		FH-9000	FH-6800	FH-R7000	FH-R7070	FH-RS770	FH-RS400	
Color	1 Hub Shell	Series color	Series color	Silky black	Silky black	Black/Silver	Black	
	1 QR	Series color	Series color	Black	Black	-	Black	
	2 Hub Shell	-	-	Spark silver	-	-	Silver	
	2 QR	-	-	Black	-	-	Black	
Brake Type		Rim brake	Rim brake	Rim brake	CENTER LOCK disc brake	CENTER LOCK disc brake	Rim brake	
Rear speeds		11/10*	11/10*	11/10*	11/10*	11/10*	10 / 11	
O.L.D. (mm)		130	130	130	142	142	130	
Spoke hole	24H	X	-	-	-	-	-	
	28H	X	-	-	-	X	X	
	32H	X	X	X	X	X	X	
	36H	X	X	X	X	X	X	
External serration disc brake rotor lock ring	with	-	-	-	-	-	-	
	without	-	-	-	-	-	-	
Internal serration disc brake rotor lock ring	with	-	-	-	-	-	-	
	without	-	-	-	X	X	-	
CENTER LOCK mount cover option		-	-	-	X	-	-	
Axle fixing method		QR	QR	QR	12mm E-THRU	12mm E-THRU	QR	
QR skewer length	161 mm	-	-	-	-	-	-	
	163 mm	X	X	X	-	-	X	
	166 mm	-	-	-	-	-	-	
	168 mm	X	X	X	-	-	X	
	170 mm	-	-	-	-	-	-	
	173 mm	-	-	-	-	-	-	
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	-	-	-	-	-	
	135 x 12 mm	-	-	-	-	-	-	
	142 x 12 mm	-	-	-	X	X	-	
	148 x 12 mm	-	-	-	-	-	-	
	150 x 12 mm	-	-	-	-	-	-	
Flange distance (mm)		56.9 **	56.9	56.9	55.7	55.7	56.9	
Offset (mm)		9.75 **	9.7	9.75	7.45	7.5	9.75	
P.C.D. left / right (mm)		44 / 45	44 / 45	44 / 45	44 / 45	44 / 45	44 / 45	
Flange diameter left / right (mm)		52.8/53.8	52.8/53.8	52.8/53.8	52.8/53.8	52.8/53.8	52.8 / 53.8	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact	
Internal grease sleeve		X	X	X	X	-	X	
Digital adjustment system		X	X	-	-	-	-	
Bearing	Stainless ball	X	-	-	-	-	-	
	Cup	CBN	Polish	Polish	Polish	CBN	Polish	
	Cone	CBN	CBN	CBN	CBN	CBN	CBN	
FREEHUB body	Material	Titanium	Steel	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Steel	
	Finish	Anodized	Anodized	-	-	Anodized	-	
QR lever	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum	
	Finish	Anodized	Anodized	Anodized	-	-	Painted	
	Color	9000SLV	Black	Black	-	-	Black	
QR housing	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum	
	Finish	Anodized	Anodized	Anodized	-	-	Painted	
QR nut	Material	Aluminum	Resin	Resin	-	-	Resin	
	Finish	Anodized	Black	Black	-	-	Black	
Rotor lock ring	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Radial Lacing		-	-	-	-	-	-	
Average Weight (w/o axle and lock ring)		247 g	330 g	368 g	361 g	302 g	-	
Note		<p>* Can be used for 10-speed with an additional spacer. ** Aero spoke hole available *** Flange Distance:56.5, Dish:9.95(only for 28H) **** Super Finishing.</p>		* Can be used for 10-speed with an additional spacer.	* Can be used for 10-speed with an additional spacer.	* Can be used for 10-speed with an additional spacer.	* Can be used for 10-speed with an additional spacer. For Disc Brake/CENTER LOCK mount	* Can be used for 10-speed with an additional spacer.

FREEHUB (Rim/Disc Brake)

Series		SHIMANO	TOURNEY A070	SHIMANO	SHIMANO
Model no.		FH-RS300	FH-RM30-7-QR	FH-TY500-7-QR	FH-TY500-7-NT
Color	1 Hub Shell	Silver	Silver	Black	Black
	1 QR	Silver	Silver	-	-
	2 Hub Shell	Black	-	-	-
	2 QR	Black	-	-	-
Brake Type		Rim brake	Rim brake	Rim brake	Rim brake
Rear speeds		8/9/10-speed	7	7-speed	7-speed
O.L.D. (mm)		130	130	130	130
Spoke hole	24H	-	-	-	-
	28H	X	-	-	-
	32H	X	X	X	X
	36H	X	-	X	X
External serration disc brake rotor lock ring	with	-	-	-	-
	without	-	-	X	X
Internal serration disc brake rotor lock ring	with	-	-	-	-
	without	-	-	X	X
CENTER LOCK mount cover option		-	-	-	-
Axle fixing method		QR	QR	QR	Nut
QR skewer length	161 mm	-	X	X	-
	163 mm	X	-	-	-
	166 mm	-	-	-	-
	168 mm	X	-	-	-
	170 mm	-	-	-	-
	173 mm	-	-	-	-
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	-	-	-
	135 x 12 mm	-	-	-	-
	142 x 12 mm	-	-	-	-
	148 x 12 mm	-	-	-	-
	150 x 12 mm	-	-	-	-
Flange distance (mm)		57.9	59.2	57.4	57.4
Offset (mm)		8.4	5.5	7.1	7.1
P.C.D. left / right (mm)		45	45	45 / 45	45 / 45
Flange diameter left / right (mm)		53.8	53.8	53.8	53.8
Seal	Hub	Contact	-	-	-
	FREEHUB body	Contact	-	-	-
Internal grease sleeve		X	-	-	-
Digital adjustment system		-	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	-	-	-	-
	Cone	-	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
Hub shell	Material	Aluminum	Aluminum (2 pcs)	Aluminum	Aluminum
	Finish	Anodized	Shiny	Painted (Black)	Painted (Black)
Axle	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
QR lever	Material	Aluminum	Steel	Steel	-
	Finish	Painted	Plated	Plated	-
	Color	Black	Black	Black	-
QR housing	Material	Steel	Steel	Steel	-
	Finish	Painted	Painted	Painted	-
QR nut	Material	Resin	Resin	Steel + Resin	-
	Finish	Black	Black	-	-
Rotor lock ring	Material	-	-	-	-
	Finish	-	-	-	-
Radial Lacing		-	-	-	-
Average Weight (w/o axle and lock ring)		-	-	-	-
Note				O.L.D. : 135 mm Available (Refer to MTB FH Specification Table)	O.L.D. : 135 mm Available (Refer to MTB FH Specification Table)

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- FD
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- BB
- BB
- CS
- HB
- FH**
- WH
- WH
- HP

Wheel (Rim Brake)

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	
Model no.	WH-R9100-C60-CL-F	WH-R9100-C60-CL-R	WH-R9100-C60-TU-F	WH-R9100-C60-TU-R	WH-R9100-C40-CL-F	WH-R9100-C40-CL-R	
Model name	WH-R9100-C60-CL	WH-R9100-C60-CL	WH-R9100-C60-TU	WH-R9100-C60-TU-R	WH-R9100-C40-CL	WH-R9100-C40-CL	
Spec.	F	R	F	R	F	R	
Color	1 Hub Shell	Series color	Series color	Series color	Series color	Series color	
	1 QR	Series color	Series color	Series color	Series color	Series color	
	2 Hub Shell	-	-	-	-	-	
	2 QR	-	-	-	-	-	
Front / Rear	Front	Rear	Front	Rear	Front	Rear	
Brake Type	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	
Speeds	-	10*/11	-	10*/11	-	10*/11	
O.L.D. (mm) (Front / Rear)	100	130	100	130	100	130	
Wheel Size	622x17C	622x17C	700C	700C	622x15C	622x15C	
Rim	Height (mm) (Front / Rear)	50 / 50	50 / 50	60 / 60	60 / 60	35	35
	Width (mm) (Front / Rear)	22.4 / 22.4	22.4 / 22.4	28 / 28	28 / 28	20.8	20.8
	Rim joint	Sleeved	Sleeved	-	-	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
Spokes	Number (Front / Rear)	16	21	16	21	16	21
	Bladed	X	X	X	X	X	X
	Butted	X	X	X	X	X	X
Axle fixing method	QR	QR	QR	QR	QR	QR	
QR skewer length	129 mm	-	-	-	-	-	-
	133 mm	X	-	X	-	X	-
	161 mm	-	-	-	-	-	-
	163 mm	-	X	-	X	-	X
	166 mm	-	-	-	-	-	-
	168 mm	-	X	-	X	-	X
	170 mm	-	-	-	-	-	-
	173 mm	-	-	-	-	-	-
Thru Axle (Length x Inner Diameter)	100 x 8 mm	-	-	-	-	-	-
	100 x 12 mm	-	-	-	-	-	-
	100 x 15 mm	-	-	-	-	-	-
	110 x 20 mm	-	-	-	-	-	-
	135 x 10 mm	-	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-	-
	142 x 12 mm	-	-	-	-	-	-
	150 x 12 mm	-	-	-	-	-	-
Bearing	Stainless ball	X	X	X	X	X	X
	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
Disc mount	CENTER LOCK	-	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-	-
	140mm Disc rotor compatible	-	-	-	-	-	-
OPTBAL	-	X	-	X	-	X	
D2 rim	X	X	X	X	-	-	
OFFSET RIM	-	-	-	-	-	-	
Digital adjustment system	X	X	X	X	X	X	
SCYLENCE FREEHUB	-	-	-	-	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-	Contact
Grease holding function	X	X	X	X	X	X	
Requires rim tape	X	X	-	-	X	X	
Tire	Type	Clincher	Clincher	Tubular	Tubular	Clincher	Clincher
	Recommended size	23-622 - 32-622	23-622 - 32-622	23-28" - 28-28"	23-28" - 28-28"	23-622 - 28-622	23-622 - 28-622
Rim	Material	Carbon+AL	Carbon+AL	Carbon	Carbon	Carbon+AL	Carbon+AL
	Finish	Painting	Painting	Painting	Painting	painting	painting
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Silver	Silver	Silver	Silver	Black	Black
FREEHUB body	Material	-	Titanium (Rear)	-	Titanium (Rear)	-	Titanium
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
QR nut	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Color	Series color	Series color	Series color	Series color	Series color	Series color
Compatible Spoke protector	-	CP-W124	-	CP-W124	-	CP-W124	
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)	832 g	1,019 g	666 g	830 g	674 g	834 g	
Note	-	* The adapter is needed to use 10-speed CS	-	* The adapter is needed to use 10-speed CS	-	* The adapter is needed to use 10-speed CS	

Wheel (Rim Brake)

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	
Model no.	WH-R9100-C40-TU-F	WH-R9100-C40-TU-R	WH-R9100-C24-CL-F	WH-R9100-C24-CL-R	WH-RS700-C30-TL-F	WH-RS700-C30-TL-R	
Model name	WH-R9100-C40-TU	WH-R9100-C40-TU	WH-R9100-C24-CL	WH-R9100-C24-CL	WH-RS700-C30-TL	WH-RS700-C30-TL	
Spec.	F	R	F	R	F	R	
Color	1 Hub Shell	Series color	Series color	Series color	Silver	Silver	
	1 QR	Series color	Series color	Series color	Silver	Silver	
	2 Hub Shell	-	-	-	-	-	
	2 QR	-	-	-	-	-	
Front / Rear	Front	Rear	Front	Rear	Front	Rear	
Brake Type	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	
Speeds	-	10*/11	-	10*/11	-	10*/11	
O.L.D. (mm) (Front / Rear)	100	130	100	130	100	130	
Wheel Size	700C	700C	622x15C	622x15C	622x15C	622x15C	
Rim	Height (mm) (Front / Rear)	37	37	21	24	28	
	Width (mm) (Front / Rear)	28	28	20.8	20.8	20.8	
	Rim joint	-	-	Sleeved	Sleeved	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
Spokes	Number (Front / Rear)	16	21	16	20	21	
	Bladed	X	X	X	X	X	
	Butted	X	X	X	X	X	
Axle fixing method	QR	QR	QR	QR	QR	QR	
QR skewer length	129 mm	-	-	-	-	-	
	133 mm	X	-	X	-	-	
	161 mm	-	-	-	-	-	
	163 mm	-	X	-	X	X	
	166 mm	-	-	-	-	-	
	168 mm	-	X	-	X	X	
	170 mm	-	-	-	-	-	
	173 mm	-	-	-	-	-	
Thru Axle (Length x Inner Diameter)	100 x 8 mm	-	-	-	-	-	
	100 x 12 mm	-	-	-	-	-	
	100 x 15 mm	-	-	-	-	-	
	110 x 20 mm	-	-	-	-	-	
	135 x 10 mm	-	-	-	-	-	
	135 x 12 mm	-	-	-	-	-	
	142 x 12 mm	-	-	-	-	-	
	150 x 12 mm	-	-	-	-	-	
Bearing	Stainless ball	X	X	X	X	-	
	Cup	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	
Disc mount	CENTER LOCK	-	-	-	-	-	
	CENTER LOCK mount cover option	-	-	-	-	-	
	140mm Disc rotor compatible	-	-	-	-	-	
OPTBAL	-	X	-	-	-	X	
D2 rim	-	-	-	-	-	-	
OFFSET RIM	-	X	-	X	-	X	
Digital adjustment system	X	X	X	X	-	-	
SCYLENCE FREEHUB	-	-	-	-	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	-	Contact	-	Contact	Contact	
Grease holding function	X	X	X	X	X	X	
Requires rim tape	-	-	X	X	X	X	
Tire	Type	Tubular	Tubular	Clincher	Clincher	Tubeless	
	Recommended size	23-28" 28-28"	23-28" 28-28"	23-622 28-622	23-622 28-622	23-622 - 32-622	23-622 - 32-622
Rim	Material	Carbon	Carbon	Carbon+AL	Carbon+AL	Carbon+AL	
	Finish	painting	painting	painting	painting	painting	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	Black	Black	
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Black	Black	Black	Black	Black	
FREEHUB body	Material	-	Titanium	-	Titanium	Steel	
	Finish	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
QR nut	Material	Aluminum	Aluminum	Aluminum	Aluminum	Resin	
	Color	Series color	Series color	Series color	Series color	Black	
Compatible Spoke protector	-	CP-W124	-	CP-WH23 (23T) CP-W120 CP-W020(10-speed)	-	CP-W124	
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)	637 g	747 g	618 g	835 g	616 g	924 g	
Note		* The adapter is needed to use 10-speed CS		* The adapter is needed to use 10-speed CS		* The adapter is needed to use 10-speed CS	

Wheel (Rim Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-RS500-TL-F	WH-RS500-TL-R	WH-RS300-CL-F	WH-RS300-CL-R	WH-RS330-CL-F	WH-RS330-CL-R
Model name	WH-RS500-TL	WH-RS500-TL	WH-RS300-CL	WH-RS300-CL	WH-RS330-CL	WH-RS330-CL
Spec.	F	R	F	R	F	R
Color	1 Hub Shell	Silver	Silver	Black	Black	Black
	1 QR	Silver	Silver	Black	Black	Black
	2 Hub Shell	-	-	-	-	White
	2 QR	-	-	-	-	Black
Front / Rear	Front	Rear	Front	Rear	Front	Rear
Brake Type	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
Speeds	-	10*/11	-	10*/11	-	10*/11
O.L.D. (mm) (Front / Rear)	100	130	100	130	100	130
Wheel Size	622x15C	622x15C	622 x 17C	622 x 17C	622x15C	622x15C
Rim	Height (mm) (Front / Rear)	24	24	24	24	30
	Width (mm) (Front / Rear)	20.8	20.8	23.2	23.2	20.8
	Rim joint	Welded	Welded	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	X	X	-	-	-
Spokes	Number (Front / Rear)	16	20	16	20	21
	Bladed	X	X	X	X	X
	Butted	X	X	X	X	X
Axle fixing method	QR	QR	QR	QR	QR	QR
QR skewer length	129 mm	-	-	-	-	-
	133 mm	X	-	X	-	X
	161 mm	-	-	-	-	-
	163 mm	-	X	-	X	X
	166 mm	-	-	-	-	-
	168 mm	-	X	-	X	X
	170 mm	-	-	-	-	-
	173 mm	-	-	-	-	-
Thru Axle (Length x Inner Diameter)	100 x 8 mm	-	-	-	-	-
	100 x 12 mm	-	-	-	-	-
	100 x 15 mm	-	-	-	-	-
	110 x 20 mm	-	-	-	-	-
	135 x 10 mm	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-
	142 x 12 mm	-	-	-	-	-
	150 x 12 mm	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish
	Cone	CBN/Polish	CBN/Polish	CBN	CBN	CBN/Polish
Disc mount	CENTER LOCK	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-
	140mm Disc rotor compatible	-	-	-	-	-
OPTBAL	-	-	-	-	-	X
D2 rim	-	-	-	-	-	-
OFFSET RIM	-	X	-	X	-	X
Digital adjustment system	X	X	-	-	-	-
SCYLENCE FREEHUB	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	Contact
Grease holding function	X	X	X	X	X	X
Requires rim tape	-	-	18-622	18-622	X	X
Tire	Type	Tubeless	Tubeless	Clincher	Clincher	Clincher
	Recommended size	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Black	Black	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black	Black	Black Anodized	Black Anodized	Black
FREEHUB body	Material	-	Steel	-	Steel	Steel
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	-
Axle	Material	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Anodized	-	-	-
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	-
QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
QR nut	Material	Resin	Resin	Resin	Resin	Resin
	Color	Black	Black	Black	Black	Black
Compatible Spoke protector	-	CP-WH23(23-28T) CP-W120(32T) CP-W020(10-speed)	-	CP-WH23(23-28T) CP-W120(32T)	-	CPW124
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)	705 g	944 g	770 g	1,057 g	875 g	1,176 g
Note		* The adapter is needed to use 10-speed CS	-	* The adapter is needed to use 10-speed CS		* The adapter is needed to use 10-speed CS

Wheel (Rim Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-RS100-CL-F	WH-RS100-CL-R	WH-RS010-CL-F	WH-RS010-CL-R	WH-R501-A-CL-F	WH-R501-A-CL-R
Model name	WH-RS100-CL	WH-RS100-CL	WH-RS010-CL	WH-RS010-CL	WH-R501-A-CL	WH-R501-A-CL
Spec.	F	R	F	R	F	R
Color	1 Hub Shell	Black	Black	Black	Black	Black
	1 QR	Black	Black	Black	Black	Black
	2 Hub Shell	-	-	-	-	Silver
	2 QR	-	-	Black	Black	Black
Front / Rear	Front	Rear	Front	Rear	Front	Rear
Brake Type	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
Speeds	-	10*/11	-	10*/11	-	8/9/10
O.L.D. (mm) (Front / Rear)	100	130	100	130	100	130
Wheel Size	622 x 17C	622 x 17C	622x15C	622x15C	622x15C	622x15C
Rim	Height (mm) (Front / Rear)	24	24	24	24	24
	Width (mm) (Front / Rear)	23.2	23.2	20.8	20.8	20.8
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	-	-	-	-	-
Spokes	Number (Front / Rear)	20	24	20	24	20
	Bladed	-	-	-	-	X
	Butted	-	-	-	-	-
Axle fixing method	QR	QR	QR	QR	QR	QR
QR skewer length	129 mm	-	-	-	-	-
	133 mm	X	-	X	-	X
	161 mm	-	-	-	-	-
	163 mm	-	X	-	X	X
	166 mm	-	-	-	-	-
	168 mm	-	X	-	X	X
	170 mm	-	-	-	-	-
	173 mm	-	-	-	-	-
Thru Axle (Length x Inner Diameter)	100 x 8 mm	-	-	-	-	-
	100 x 12 mm	-	-	-	-	-
	100 x 15 mm	-	-	-	-	-
	110 x 20 mm	-	-	-	-	-
	135 x 10 mm	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-
	142 x 12 mm	-	-	-	-	-
	150 x 12 mm	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish
	Cone	CBN	CBN	CBN finish	CBN finish	CBN finish
Disc mount	CENTER LOCK	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-
	140mm Disc rotor compatible	-	-	-	-	-
OPTBAL	-	-	-	-	-	
D2 rim	-	-	-	-	-	
OFFSET RIM	-	X	-	X	-	
Digital adjustment system	-	-	-	-	-	
SCYLENCE FREEHUB	-	-	-	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	Contact
Grease holding function	-	-	-	-	-	
Requires rim tape	18-622	18-622	X	X	X	X
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black	Black	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass
	Finish	Silver	Silver	Silver	Silver	Silver
FREEHUB body	Material	-	Steel	-	Steel	Steel
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
QR housing	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Black	Black	Painted	Painted	Painted
QR nut	Material	Resin	Resin	Resin	Resin	Resin
	Color	Black	Black	Black	Black	Black
Compatible Spoke protector	-	CP-WH24 CP-FH53(34T)	-	CP-WH24 CP-FH53(34T)	-	CP-FH06 CP-FH31 CP-FH46 CP-WH24
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)	805 g	1,092 g	818 g	1,102 g	820 g	1,069 g
Note	-	* The adapter is needed to use 10-speed CS	-	* The adapter is needed to use 10-speed CS	-	-

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FB

WH

WH

HP

Wheel (Rim Brake)

Series		SHIMANO	SHIMANO
Model no.		WH-R501-CL-F	WH-R501-CL-R
Model name		WH-R501-CL	WH-R501-CL
Spec.		F	R
Color	1 Hub Shell	Black	Black
	1 QR	Black	Black
	2 Hub Shell	Silver	Silver
	2 QR	Black	Black
Front / Rear		Front	Rear
Brake Type		Rim brake	Rim brake
Speeds		-	8/9/10
O.L.D. (mm) (Front / Rear)		100	130
Wheel Size		622x15C	622x15C
Rim	Height (mm) (Front / Rear)	24	24
	Width (mm) (Front / Rear)	20.8	20.8
	Rim joint	Sleeved	Sleeved
	Brazed reinforcement	-	-
Spokes	Number (Front / Rear)	20	24
	Bladed	-	-
	Butted	-	-
Axle fixing method		QR	QR
QR skewer length	129 mm	-	-
	133 mm	X	-
	161 mm	-	-
	163 mm	-	X
	166 mm	-	-
	168 mm	-	X
	170 mm	-	-
	173 mm	-	-
Thru Axle (Length x Inner Diameter)	100 x 8 mm	-	-
	100 x 12 mm	-	-
	100 x 15 mm	-	-
	110 x 20 mm	-	-
	135 x 10 mm	-	-
	135 x 12 mm	-	-
	142 x 12 mm	-	-
	150 x 12 mm	-	-
Bearing	Stainless ball	-	-
	Cup	Polish	Polish
	Cone	CBN finish	CBN finish
Disc mount	CENTER LOCK	-	-
	CENTER LOCK mount cover option	-	-
	140mm Disc rotor compatible	-	-
OPTBAL		-	-
D2 rim		-	-
OFFSET RIM		-	-
Digital adjustment system		-	-
SCYLENCE FREEHUB		-	-
Seal	Hub	Contact	Contact
	FREEHUB body	-	Contact
Grease holding function		-	-
Requires rim tape		X	X
Tire	Type	Clincher	Clincher
	Recommended size	23-622 - 32-622	23-622 - 32-622
Rim	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel
	Finish	Black	Black
Nipple	Material	Brass	Brass
	Finish	Silver	Silver
FREEHUB body	Material	-	Steel
	Finish	-	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Axle	Material	Steel	Steel
	Finish	-	-
QR lever	Material	Aluminum	Aluminum
	Finish	Painted	Painted
QR housing	Material	Steel	Steel
	Finish	Painted	Painted
QR nut	Material	Resin	Resin
	Color	Black	Black
Compatible Spoke protector		-	CP-FH06 CP-FH31 CP-FH46 CP-WH24
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)		820 g	1,069 g
Note			

Wheel (Disc Brake)

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.	WH-R9170-C60-TU-F12	WH-R9170-C60-TU-R12	WH-R9170-C40-TL-F12	WH-R9170-C40-TL-R12	WH-R9170-C40-TU-F12	WH-R9170-C40-TU-R12
Model name	WH-R9170-C60-TU	WH-R9170-C60-TU	WH-R9170-C40-TL	WH-R9170-C40-TL	WH-R9170-C40-TU	WH-R9170-C40-TU
SPEC	F12	R12	F12	R12	F12	R12
Color	1 Hub Shell	Series color	Series color	Series color	Series color	Series color
	1 QR	-	-	-	-	-
	2 Hub Shell	-	-	-	-	-
	2 QR	-	-	-	-	-
Front/Rear	Front	Rear	Front	Rear	Front	Rear
Brake Type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds	-	10*/11	-	10*/11	-	10*/11
O.L.D. (mm) (Front / Rear)	100	142	100	142	100	142
Wheel Size	700C	700C	622x17C	622x17C	700C	700C
Rim	Height (mm)	60	60	37	37	37
	Width (mm)	28	28	24	24	28
	Rim joint	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-
Spokes	Number (Front / Rear)	24	24	24	24	24
	Bladed	X	X	X	X	X
	Butted	X	X	X	X	X
Axle Fixing method	12mm E-THRU	12mm E-THRU	12mm E-THRU	12mm E-THRU	12mm E-THRU	12mm E-THRU
QR skewer length (mm)	129	-	-	-	-	-
	133	-	-	-	-	-
	161	-	-	-	-	-
	163	-	-	-	-	-
	166	-	-	-	-	-
	168	-	-	-	-	-
	170	-	-	-	-	-
	173	-	-	-	-	-
Thru Axle Length x Inner Diameter (mm)	100 x 8	-	-	-	-	-
	100 x 12	X	-	X	-	X
	100 x 15	-	-	-	-	-
	110 x 20	-	-	-	-	-
	135 x 10	-	-	-	-	-
	135 x 12	-	-	-	-	-
	142 x 12	-	X	-	X	-
150 x 12	-	-	-	-	-	
Bearing	Stainless ball	X	X	X	X	X
	Cup	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
Disc mount	CENTER LOCK	X	X	X	X	X
	CENTER LOCK mount cover option	-	-	-	-	-
	140 mm Disc brake rotor compatible	X	X	X	X	X
OPTBAL	-	X	-	X	-	X
D2 rim	X	X	-	-	-	-
OFFSET RIM	-	-	-	-	-	-
Digital adjustment system	-	-	-	-	-	-
SCYLENCE FREEHUB	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact
Grease holding function	X	-	-	X	X	X
Requires rim tape	-	-	X	X	-	-
Tire	Type	Tubular	Tubular	Tubeless	Tubeless	Tubular
	Recommended size	23-28"	23-28"	23-622	23-622	23-28"
Rim	Material	Carbon	Carbon	Carbon	Carbon	Carbon
	Finish	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Silver	Silver	Black	Black	Black
FREEHUB body	Material	-	Titanium	-	Titanium	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
QR lever	Material	-	-	-	-	-
	Finish	-	-	-	-	-
QR housing	Material	-	-	-	-	-
	Finish	-	-	-	-	-
QR nut	Material	-	-	-	-	-
	Color	-	-	-	-	-
Compatible Spoke protector	-	CP-W1460	-	CP-W1460	-	CP-W1460
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)	678 g	829 g	739 g	883 g	609 g	763 g
Note		* The adapter is needed to use 10-speed CS		* The adapter is needed to use 10-speed CS		* The adapter is needed to use 10-speed CS

Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.	WH-RS770-C30-TL-F12	WH-RS770-C30-TL-R12	WH-RS370-TL-F12	WH-RS370-TL-R12	WH-RS170-CL-F12	WH-RS170-CL-R12	
Model name	WH-RS770-C30-TL	WH-RS770-C30-TL	WH-RS370-TL	WH-RS370-TL	WH-RS170-CL	WH-RS170-CL	
SPEC	F12	R12	F12	R12	F12	R12	
Color	1 Hub Shell	Black	Black	Black	Black	Black	
	1 QR	-	-	-	-	-	
	2 Hub Shell	-	-	-	White	White	
	2 QR	-	-	-	-	-	
Front/Rear	Front	Rear	Front	Rear	Front	Rear	
Brake Type	CENTER LOCK disc brake	CENTER LOCK disc brake	Disc brake	Disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	
Speeds	-	10*/11	-	10*/11	-	10*/11	
O.L.D. (mm) (Front / Rear)	100	142	100	142	100	142	
Wheel Size	622x17C	622x17C	622 x 19C	622 x 19C	622x17C	622x17C	
Rim	Height (mm)	28	28	19	19	24	24
	Width (mm)	23	23	24.6	24.6	23	23
	Rim joint	Welded	Welded	Welded	Welded	Sleeved	Sleeved
	Brazed reinforcement	-	-	-	-	-	-
Spokes	Number (Front / Rear)	24	24	24	24	28	28
	Bladed	X	X	-	-	-	-
	Butted	X	X	-	-	-	-
Axle Fixing method	12mm E-THRU	12mm E-THRU	12mm E-THRU	12mm E-THRU	12mm E-THRU	12mm E-THRU	
QR skewer length (mm)	129	-	-	-	-	-	
	133	-	-	-	-	-	
	161	-	-	-	-	-	
	163	-	-	-	-	-	
	166	-	-	-	-	-	
	168	-	-	-	-	-	
	170	-	-	-	-	-	
	173	-	-	-	-	-	
Thru Axle Length x Inner Diameter (mm)	100 x 8	-	-	-	-	-	
	100 x 12	X	-	X	-	X	
	100 x 15	-	-	-	-	-	
	110 x 20	-	-	-	-	-	
	135 x 10	-	-	-	-	-	
	135 x 12	-	-	-	-	-	
	142 x 12	-	X	-	X	-	X
150 x 12	-	-	-	-	-	-	
Bearing	Stainless ball	-	-	-	-	-	
	Cup	CBN finish	CBN finish	Polish	Polish	Polish	
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	
Disc mount	CENTER LOCK	X	X	X	X	X	
	CENTER LOCK mount cover option	-	-	-	-	-	
	140 mm Disc brake rotor compatible	X	X	X	X	X	X
OPTBAL	-	X	-	-	-	-	
D2 rim	-	-	-	-	-	-	
OFFSET RIM	-	-	-	-	-	-	
Digital adjustment system	-	-	-	-	-	-	
SCYLENCE FREEHUB	-	-	-	-	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	-	Contact	Contact	Contact	Contact	
Grease holding function	X	X	X	X	X	X	
Requires rim tape	-	-	X	X	X	X	
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Clincher	Clincher
	Recommended size	25-622 - 38-622	25-622 - 38-622	28-622 45-622	28-622 45-622	25-622 38-622	25-622 38-622
Rim	Material	Carbon+AL	Carbon+AL	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized /painting	Anodized /painting	Anodized (Black)/ Painted (White)	Anodized (Black)/ Painted (White)
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Brass	Brass
	Finish	Black	Black	Black	Black	Silver	Silver
FREEHUB body	Material	-	Steel	-	Steel	-	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Anodized	-	-	-	-
QR lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
QR housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
QR nut	Material	-	-	-	-	-	-
	Color	-	-	-	-	-	-
Compatible Spoke protector	-	CP-W1460	-	CP-FH08 (23T-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 11/10-speed)	-	CP-FH08/CP-WH12 (11-speed) CP-FH40/CP-FH41 /CP-WH12 (10-speed)	
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)	735 g	904 g	890 g	1,090 g	942 g	1,149 g	
Note		* The adapter is needed to use 10-speed CS	-	* The adapter is needed to use 10-speed CS		* The adapter is needed to use 10-speed CS	

Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-RX31-CL-F12	WH-RX31-CL-R12	WH-RX010-CL-F	WH-RX010-CL-R
Model name	WH-RX31-CL	WH-RX31-CL	WH-RX010-CL	WH-RX010-CL
SPEC				
Color	1 Hub Shell	Black	Black	Black
	1 QR	-	-	Black
	2 Hub Shell	-	-	White
	2 QR	-	-	Black
Front/Rear	Front	Rear	Front	Rear
Brake Type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds	-	10*/11	-	10*/11
O.L.D. (mm) (Front / Rear)	100	142	100	135
Wheel Size				
	622x17C	622x17C	622x17C	622x17C
Rim	Height (mm)	24	24	24
	Width (mm)	23	23	23
	Rim joint	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	-	-	-
Spokes	Number (Front / Rear)	24	24	28
	Bladed	-	-	-
	Butted	-	-	-
Axle Fixing method				
	12mm E-THRU	12mm E-THRU	QR	QR
QR skewer length (mm)	129	-	-	-
	133	-	-	X
	161	-	-	-
	163	-	-	-
	166	-	-	-
	168	-	-	X
	170	-	-	-
	173	-	-	X
Thru Axle Length x Inner Diameter (mm)	100 x 8	-	-	-
	100 x 12	X	-	-
	100 x 15	-	-	-
	110 x 20	-	-	-
	135 x 10	-	-	-
	135 x 12	-	-	-
	142 x 12	-	X	-
150 x 12	-	-	-	
Bearing	Stainless ball	-	-	-
	Cup	Polish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish
Disc mount	CENTER LOCK	X	X	X
	CENTER LOCK mount cover option	-	-	-
	140 mm Disc brake rotor compatible	X	X	X
OPTBAL	-	-	-	-
D2 rim	-	-	-	-
OFFSET RIM	-	-	-	-
Digital adjustment system	-	-	-	-
SCYLENCE FREEHUB				
Seal	Hub	Contact	Contact	Contact
	FREEHUB body	-	Contact	Contact
Grease holding function	X	X	X	X
Requires rim tape	X	X	X	X
Tire	Type	Clincher	Clincher	Clincher
	Recommended size	25-622	25-622	25-622 - 38-622
Rim	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized (Black)/ Painted (White)
Spoke	Material	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Brass
	Finish	Black	Black	Silver
FREEHUB body	Material	-	Steel	Steel
	Finish	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Steel	Steel
	Finish	Anodized	-	-
QR lever	Material	-	-	Aluminum
	Finish	-	-	Painted
QR housing	Material	-	-	Steel
	Finish	-	-	Painted
QR nut	Material	-	-	Resin
	Color	-	-	Black
Compatible Spoke protector				
	-	CP-W122	-	CP-FH08/CP-WH12 (11-speed) CP-FH40/CP-FH41 /CP-WH12 (10-speed)
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)				
	873 g	1,072 g	982 g	1,177 g
Note				
		* The adapter is needed to use 10-speed CS		* The adapter is needed to use 10-speed CS

Head Parts

Series	DURA-ACE	
Model no.	HP-7410	
Size	JIS ENGLISH	
Thread	BC1"x24T.PT.I.	
Sealed cartridge bearings	X	
Stack height (mm)	37.6	
Lock nut	Material	Aluminum
	Finish	Anodized
Upper / Lower cups	Material	Aluminum
	Finish	Anodized
Upper stem cone	Material	Aluminum
	Finish	Anodized
Stem cone	Material	Aluminum
	Finish	Anodized
Average weight	101 g	
Note		

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Shifting/Brake Lever (Hydraulic disc brake)

Series		METREA	METREA	
Model no.		ST-U5060-R	ST-U5060-L	
Color	1	Series color	Series color	
	2	-	-	
Bracket cover color	1	Black	Black	
	2			
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds	-	2	
	Rear speeds	11	-	
	2 / 3 mode converter	-	-	
	Max. multiple shifts (Main lever / rear)	2	-	
	Compatible rear derailleur type	Road 11-speed RD	-	
	Compatible front derailleur type	-	FD-6800/5800	
	I-SPEC compatible	-	-	
	Shifting lever position adjust	-	-	
	Release function	MULTI RELEASE	-	-
		INSTANT RELEASE	-	-
		2WAY-RELEASE	-	-
	OPTICAL GEAR DISPLAY	With	-	-
		With (removable)	-	-
		Without	X	X
	Multi-Bearing construction	-	-	
	Shifting lever outer casing	SP41	SP41	
	Shifting lever cable	Polymer-coated cable	-	-
		OPTISLICK	X	X
		SIL-TECH	-	-
		Stainless	-	-
Steel		-	-	
Included		-	-	
	Pre assembled	X	X	
Brake lever	Lever size (Finger)	-	-	
	Brake hose (Kit)	SM-BH59-JK-SS	SM-BH59-JK-SS	
	Hose joint	Straight	Straight	
	Brake hose color (kit)	1	Black	Black
		2	-	-
	Recommended brake caliper	BR-U5000	BR-U5000	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral
		Tool less	-	-
	Reach adjust	Tool	X	X
	Funnel bleeding	X	X	
Free stroke adjust	-	-		
SERVOWAVE	-	-		
Clamp band	Open clamp	-	-	
	I-SPEC	-	-	
	Diameter (mm)	29.8-30.2	29.8-30.2	
Bracket	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Brake lever	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Shifter lever body	Main	Aluminum	Aluminum	
	Release	Steel & Resin	Steel & Resin	
Master cylinder	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Clamp band		X	X	
Average weight		743 g/pair	743 g/pair	
Note		Need 10 mm spanner to fix the clamp bolt	Need 10 mm spanner to fix the clamp bolt	

Brake (Hydraulic disc brake)

Series		METREA
Model no.		BR-U5000
Brake type		Hydraulic disc brake
Color	1	Series color
	2	-
	3	-
Brake hose (kit)		SM-BH59-JK-SS
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
ICE TECHNOLOGIES pad compatible caliper		-
Brake Pad	Standard 1	K02S Resin K03S Resin
	Standard 2	-
	Option 1	K04S Resin
	Option 2	-
Fixing bolt spec for rear mount	10 mm mount	X
	15 mm mount	X
	20 mm mount	X
	25 mm mount	X
	30 mm mount	X
	35 mm mount	X
Recommended brake lever		ST-U5060 BL-U5010 BL-U5000
Recommended disc brake rotor		SM-RT500
Oil		SHIMANO Mineral
ONE WAY BLEEDING		X
Mount type (available for IS mount with mount adapter)		Flat mount
Piston		2
Piston material		Ceramic
Caliper	MONO-BODY	-
	Material	Aluminum
	Finish	Painted
Caliper fixing bolt	Material	Steel
	Tool size	4mm
	Anti loosen method	Spring washer
Pad mount		Pad axle
Average weight		161 g/pc
Note		

ST

BR

BL

SL

FC

FD

RD

WH

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 (Finger)		-	2.5	2.5
Color	1	Series color	Series color	Series color
	2	-	-	-
	3	-	-	-
Brake hose (Kit)		SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black
	2	-	-	-
Recommended brake caliper		BR-U5000	BR-U5000	BR-U5000
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		X	X	X
Reach adjust	Toolless	-	-	-
	Tool	X	X	X
Free stroke adjust		-	-	-
SERVOWAVE		-	-	-
Clamp band	Open clamp	-	X	X
	I-SPEC	-	-	-
Clamp bolt	Material	Steel	Steel	Steel
	Finish	Plated	Plated	Plated
Brake lever	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum	Aluminum
	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

Series		METREA	METREA
Model no.		SL-U5000-R	SL-U5000-L
Color	1	Series color	Series color
	2	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	2
Rear speeds		11	-
Compatible rear derailleur type		Road 11-speed RD	-
Compatible front derailleur type		-	FD-U5000-F FD-6800
Shifting lever position adjust		-	-
Shifting lever cable adjust		X	X
Max. multiple shifts (Main lever/ rear)		4	-
Release function	MULTI RELEASE	X**	X
	INSTANT RELEASE	X	X
	2WAY-RELEASE	X	X
OPTICAL GEAR DISPLAY	with	-	-
	with (removable)	-	-
	without	X	X
Multi-Bearing construction		2	2
Shifting lever bracket	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Main lever body	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Release lever body	Material	Steel & Resin	Steel & Resin
	Finish	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41
Average weight		220 g/pair	220 g/pair
Note		* I-SPEC II ** Pull:single, Push:double	* I-SPEC II

Front Chainwheel

Series		METREA	METREA
Model no.		FC-U5000-2	FC-U5000-1
Color	1	Series color	Series color
	2	-	-
Rear speeds		11	11
Compatible chain		Super Narrow HG for 11-speed	Super Narrow HG for 11-speed
Chainline (mm)		43.5	46.6
P.C.D. left / right (mm)		96	96
Gear arms (pcs)		4 arms	4 arms
Chaining combination		46-32T	42T
Q-factor		158	158
Crank arm length (mm)	165	-	-
	167.5	-	-
	170	X	X
	172.5	-	-
	175	X	X
	177.5	-	-
	180	-	-
Optional chain guard	With chain guard	X	X
	Without chain guard	-	-
HOLLOWTECH II		-	-
2-PIECE CRANKSET		X	X
HOLLOWTECH crank arm		-	-
OCTALINK		-	-
HOLLOWGLIDE		-	-
Compatible BB type	Outboard	X	X
	OCTALINK	-	-
	Square	-	-
Recommended BB	Threaded (normal)	SM-BBR60	SM-BBR60
	Pressfit	SM-BB72-41B	SM-BB72-41B
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-
Threaded BB shell width (mm)	68	X	X
	70	X	X
Crank arm	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Crank axle	Material	Steel	Steel
	Finish	Plated	Plated
Spider arm	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Spider arm cover	Material	-	-
	Finish	-	-
Outer ring	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Middle ring	Material	-	-
	Finish	-	-
Inner ring	Material	Aluminum	-
	Finish	Anodized	-
Outer / middle ring fixing bolt	Material	SUS	SUS
	Finish	-	-
Inner ring fixing bolt	Material	-	-
	Finish	-	-
Crank fixing bolt included		X	X
Average weight (170mm, w/o BB)		1,036 g	912 g
Note		Chain guard Material: Aluminum Finish: Anodized	Chain guard Material: Aluminum Finish: Anodized

Front Derailleur

Series		METREA	
Model no.		FD-U5000-F	
Color	1	Series color	
	2	-	
Speeds	Front	2	
	Rear	11	
Compatible chain		Super Narrow HG for 11-speed	
Action	TOP SWING	-	
	Down Swing	X	
Mount	Clamp Band (mm)	28.6	-
		31.8	-
		34.9	-
	Brazed-On	X	
Top-Pull exclusive option		-	
Chain line (mm)		43.5	
Chain stay angle		63-66	
Top gear teeth		46T	
Total capacity		14T	
Applicable Top-Mid tooth difference		-	
Angled clamp band design		-	
Multi-Bearing construction		-	
Link bushings		-	
Front clamp band	Material	-	
	Finish	-	
Rear clamp band, base bracket	Material	Aluminum	
	Finish	Painted	
Outer link	Material	Aluminum	
	Finish	Painted	
Inner link	Material	Aluminum	
	Finish	Painted	
Chain guide	Material	Steel	
	Finish	Chrome plated	
Cable fixing bolt	Material	Stainless steel	
	Finish	-	
Stroke Adjusting Screw	Material	Steel	
	Finish	Chrome plated	
Average weight (Band type: L size, Direct type: w/o bolt)		94 g	
Note			

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RD

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Rear Derailleur

Series		METREA
Model no.		RD-U5000-SS
Pulley cage		SS
Color	1	Series color
	2	-
Rear speeds		11
Compatible chain		HG-X11
Mount	Direct attachment (Conventional)	-
	Riveted adapter (Road type)	-
	Riveted adapter (BMX-Track type)	-
Cable adjuster		X
Max. front difference		14T
Total capacity		35T
Low sprocket	Max.	32T
	Min.	28T
Top sprocket	Max.	11T
	Min.	11T
Fluoric coated link bushings		2
Pulley	G pulley bearing	-
	T pulley bearing	-
	Teeth	11T
	Bolts material	Steel
	Sunken type pulley bolt	X
Bracket	Material	-
	Finish	-
B-axle	Hollow axle	-
	Material	SUS
	Finish	-
B-axle 2	Hollow axle	-
	Material	-
	Finish	-
Bracket body	Material	Aluminum
	Finish	Painted
P-axle	Material	Steel
	Finish	Plated
Plate body	Material	Aluminum
	Finish	Painted
Outer link	Material	Aluminum
	Finish	Painted
Inner link	Material	Steel
	Finish	Painted
Outer plate	Material	Steel
	Finish	Painted
Inner plate	Material	Steel
	Finish	Painted
Average weight		280.5 g
Note		

Wheel (Disc Brake)

Series		METREA	METREA	METREA	METREA
Model no.		WH-U5000-CL-F	WH-U5000-CL-R	WH-U5000-CL-F12	WH-U5000-CL-R12
Model name		WH-U5000-CL	WH-U5000-CL	WH-U5000-CL	WH-U5000-CL
SPEC		F	R	F12	R12
Color	1 Hub Shell	Series color	Series color	Series color	Series color
	1 QR	Series color	Series color	-	-
	2 Hub Shell	-	-	-	-
	2 QR	-	-	-	-
Front / Rear		Front	Rear	Front	Rear
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds		-	11	-	11
O.L.D. (mm) (Front / Rear)		100	135	100	142
Wheel Size		622x17C	622x17C	622x17C	622x17C
Rim	Height (mm) (Front / Rear)	40	40	40	40
	Width (mm) (Front / Rear)	23	23	23	23
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	-	-	-	-
Spokes	Number (Front / Rear)	24	24	24	24
	Bladed	X	X	X	X
	Butted	X	X	X	X
Axle Fixing method		QR	QR	E-THRU	E-THRU
QR skewer length	129 mm	-	-	-	-
	133 mm	X	-	X	-
	161 mm	-	-	-	-
	163 mm	-	-	-	-
	166 mm	-	-	-	-
	168 mm	-	X	-	X
	170 mm	-	-	-	-
	173 mm	-	X	-	X
Thru Axle (Length x inner diameter)	100 x 8 mm	-	-	-	-
	100 x 12 mm	-	-	X	-
	100 x 15 mm	-	-	-	-
	110 x 20 mm	-	-	-	-
	135 x 10 mm	-	-	-	-
	135 x 12 mm	-	-	-	-
	142 x 12 mm	-	-	-	X
	150 x 12 mm	-	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	Polish	Polish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish
Disc mount	CENTER LOCK	X	X	X	X
	CENTER LOCK mount cover option	-	-	-	-
	140mm disc brake rotor compatible	X	-	X	-
OPTBAL		-	-	-	-
D2 rim		-	-	-	-
OFFSET RIM		-	-	-	-
Digital adjustment system		-	-	-	-
SCYLENCE FREEHUB		-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact
Grease holding function		X	X	X	X
Requires rim tape		X	X	X	X
Tire	Type	Clincher	Clincher	Clincher	Clincher
	Recommended size	25-622 38-622	25-622 38-622	25-622 38-622	25-622 38-622
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Polished	Polished	Polished	Polished
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
FREEHUB body	Material	-	Steel	-	Steel
	Finish	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
QR lever	Material	Aluminum	Aluminum	-	-
	Finish	Anodized	Anodized	-	-
QR housing	Material	Aluminum	Aluminum	-	-
	Finish	Anodized	Anodized	-	-
QR nut	Material	Resin	Resin	-	-
	Color	Black	Black	-	-
Compatible Spoke protector		-	-	-	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)		1,093 g	1,287 g	1,071 g	1,261 g
Note					

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RD

WH

ARCHIVE

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GENERAL

Chain

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CN-M9100	CN-HG901-11	CN-E8000-11	CN-HG701-11	CN-HG601-11	CN-E6090-10
Type	HG	HG-X11	HG-X11	HG-X11	HG-X11	HG-X 10-speed
E-BIKE RD system compatible	X	X	X	X	X	X
Pin link plate	SIL-TEC	SIL-TEC	SIL-TEC	SIL-TEC	-	SIL-TEC
Roller link plate	Chromizing	SIL-TEC	Chromizing	SIL-TEC	SIL-TEC	SIL-TEC
Roller	SIL-TEC	SIL-TEC	-	-	-	-
Chromizing treatment roller link plate	X	-	X	-	-	-
Hollow pin	X	X	-	-	-	-
Average Weight (114 links)	242 g	247 g	257 g	257 g	257 g	276 g
Note	QUICK-LINK					

Series	SHIMANO	SHIMANO	ULTEGRA	ULTEGRA	SHIMANO	SHIMANO
Model no.	CN-HG95	CN-HG54	CN-6701	CN-6600	CN-HG93	CN-E6070-9
Type	HG-X 10-speed	HG-X 10-speed	HG 10-speed	HG 10-speed	HG 9-speed	HG 9-speed
E-BIKE RD system compatible	-	-	-	-	-	X
Pin link plate	SIL-TEC	Gray	Zinc-Alloy Plated	Zinc-Alloy Plated	Zinc-Alloy Plated	Gray
Roller link plate	SIL-TEC	Brown	Gray	Gray	Gray	Gray
Roller	-	-	-	-	-	-
Chromizing treatment roller link plate	-	-	-	-	-	-
Hollow pin	-	-	-	-	-	-
Average Weight (114 links)	273 g	273 g	267 g	273 g	299 g	276 g
Note				For triple		

Series	SHIMANO	SHIMANO	SHIMANO	NEXUS
Model no.	CN-HG53	CN-HG71	CN-HG40	CN-NX10
Type	HG 9-speed	HG	HG	Single speed 1/2"x1/8"
E-BIKE RD system compatible	-	-	-	-
Pin link plate	Gray	Silver	Gray	-
Roller link plate	Brown	Gray	Brown	-
Roller	-	-	-	-
Chromizing treatment roller link plate	-	-	-	-
Hollow pin	-	-	-	-
Average Weight (114 links)	299 g	324 g	324 g	-
Note				

Chain QUICK-LINK

Series	SHIMANO	SHIMANO
Model no.	SM-CN910-12	SM-CN900-11
E-BIKE RD system compatible	-	-
Type	HG	HG 11-speed
Pin link plate	SIL-TEC	SIL-TEC
Roller link plate	-	-
Roller	-	-
Chromizing treatment link pin	X	X
Hollow pin	-	-
Note	QUICK-LINK for CN-M9100	QUICK-LINK for SHIMANO 11-speed chain

Disc Brake Rotor

Series		SHIMANO	XTR/SAINT	XTR/SAINT	SHIMANO	SHIMANO	SAINT/DEORE XT
Model no.		RT-MT900	SM-RT99	SM-RT99-A	SM-RT900	SM-RT800	SM-RT86
CENTER LOCK		X	X	X	X	X	-
6-bolt (P.C.D. 44mm)		-	-	-	-	-	X
ICE TECHNOLOGIES		-	X	X	X	X	X
ICE TECHNOLOGIES FREEZA		X	X	X	X	X	-
Outside diameter	203 mm	X	X	-	-	-	X
	180 mm	X	X	-	-	-	X
	160 mm	X	X	-	X	X	X
	140 mm	X	-	X*	X	X	-
Alloy lock ring		X	X	X	X	X	X
Adapter	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Anodized	Painted	Painted
Rotor	Material	Stainless steel + Aluminum + Stainless steel	Stainless steel+Aluminum+ Stainless steel	Stainless steel+Aluminum+ Stainless steel	Stainless steel+ Aluminum+ Stainless steel	Stainless steel+ Aluminum+ Stainless steel	Stainless steel+Aluminum+ Stainless steel
	Finish	Polished	Polished	Polished	Polished	Polished	Polished
Pad compatibility	Metal	X	X	X	X	X	X
	Resin	X	X	X	X	X	X
Lock ring	Internal type	Material	Aluminum	-	-	Aluminum	-
		Finish	Anodized	-	-	Anodized	-
	External type	Material	-	-	-	-	-
		Finish	-	-	-	-	-
	Internal/ External type	Material	-	-	-	-	-
		Finish	-	-	-	-	-
Average Weight (w/o lock ring)		149 g (203 mm) 133 g (180 mm) 108 g (160 mm) 90 g (140 mm)	173.0 g (203 mm) 132.3 g (180 mm) 118.1 g (160 mm)	95.0 g (140 mm)	118 g (160 mm) 100 g (140 mm)	128 g (160 mm) 108 g (140 mm)	187.0 g (203 mm) 154.0 g (180 mm) 135.0 g (160 mm)
Note		-	w/ Radiator fin	w/ Radiator fin *for rear only in MTB usage	-	-	With anti loosen tightening plate

Series		SAINT/DEORE XT	SHIMANO	DEORE XT	SLX/DEORE	DEORE	METREA
Model no.		SM-RT81	SM-RT70	SM-RT76	SM-RT66	SM-RT64	SM-RT500
CENTER LOCK		X	X	-	-	X	X
6-bolt (P.C.D. 44mm)		-	-	X	X	-	-
ICE TECHNOLOGIES		X	X	-	-	-	X
ICE TECHNOLOGIES FREEZA		-	-	-	-	-	-
Outside diameter	203 mm	X	X	X	X	X	-
	180 mm	X	X	X	X	X	-
	160 mm	X	X	X	X	X	-
	140 mm	X*	X (NEW)	-	-	-	X
Alloy lock ring		X	X (140 mm)	-	-	-	X
Adapter	Material	Aluminum	Alloy (160, 180, 203mm) Aluminum (140 mm)	Aluminum	-	Aluminum	Allminum
	Finish	Painted	Painted	Painted	-	Painted	Painted
Rotor	Material	Stainless steel+Aluminum+ Stainless steel	Stainless steel + Aluminum + Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel/ Aluminum/ Stainless steel
	Finish	Polished	Polished	Polished	Polished	Polished	Polished
Pad compatibility	Metal	X	X	X	X	X	X
	Resin	X	X	X	X	X	X
Lock ring	Internal type	Material	-	Steel	-	Steel	Allminum
		Finish	-	Plated	-	Plated	Anodized
	External type	Material	-	Steel	-	-	Steel
		Finish	-	Plated	-	-	Plated
	Internal/ External type	Material	-	-	-	-	-
		Finish	-	-	-	-	-
Average Weight (w/o lock ring)		173.0 g (203 mm) 149.0 g (180 mm) 122.0 g (160 mm) 100.5 g (140 mm)	193 g (203 mm) 159 g (180 mm) 133 g (160 mm) 121 g (140 mm)	209 g (203 mm) 169 g (180 mm) 141 g (160 mm)	-	-	102.9 g
Note		*for rear only in MTB usage	-	With anti loosen tightening plate	With anti loosen tightening plate	-	-

- CN
- SMCN
- RT
- BH
- RTAD
- OT
- SMCB
SMCA
- PM
- DH
- LP
- SMAX
- SC
- PD
- PD
- PD
- PD

Disc Brake Rotor

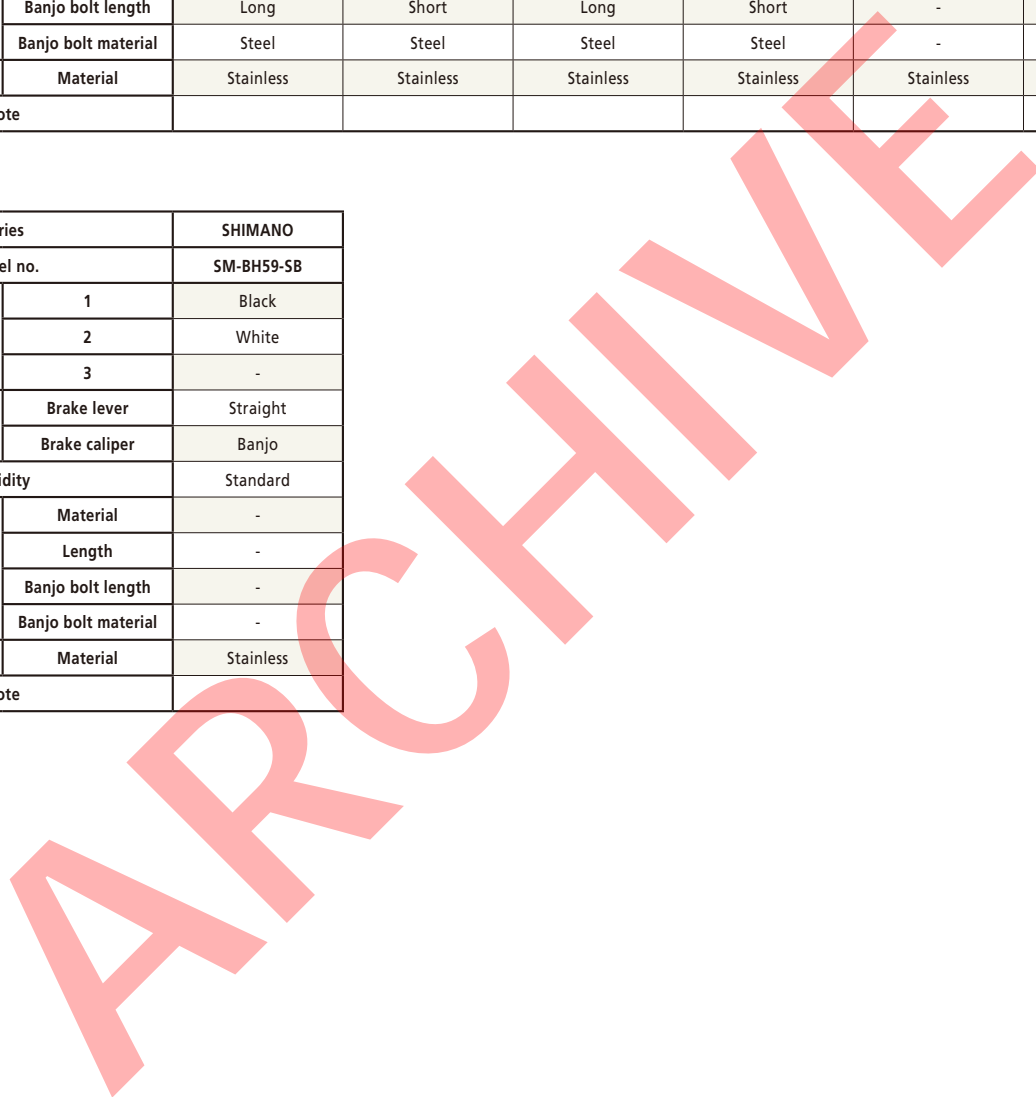
Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		SM-RT56	SM-RT54	SM-RT30	SM-RT26	SM-RT10	SM-RTC60	
CENTER LOCK		-	X	X	-	X	-	
6-bolt (P.C.D. 44mm)		X	-	-	X	-	-	
ICE TECHNOLOGIES		-	-	-	-	-	-	
ICE TECHNOLOGIES FREEZA		-	-	-	-	-	-	
Outside diameter	203 mm	-	-	-	-	-	-	
	180 mm	X	X	X	X	X	-	
	160 mm	X	X	X	X	X	X	
	140 mm	-	-	-	-	-	-	
Alloy lock ring		-	-	-	-	-	-	
Adapter	Material	-	Aluminum	Stainless steel	-	Steel	Steel	
	Finish	-	Painted	Painted	-	Painted	Painted	
Rotor	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Polished	Polished	Polished	Polished	Polished	Polished	
Pad compatibility	Metal	-	-	-	-	-	X	
	Resin	X	X	X	X	X	X	
Lock ring	Internal type	Material	-	Steel	-	-	-	
		Finish	-	Plated	-	-	-	
	External type	Material	-	Steel	-	-	-	
		Finish	-	Plated	-	-	-	
	Internal/External type	Material	-	-	Steel	-	Steel	-
		Finish	-	-	Painted	-	Painted	-
Average Weight (w/o lock ring)		-	-	-	-	-	-	
Note		With anti loosen tightening plate	-	-	With anti loosen tightening plate	-	Disc brake rotor is fixed by 5-bolts with 74 mm PCD.	

ARCHIVE

Disc Brake Hose

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-BH90-SB	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SBS	SM-BH90-SS	SM-BH59-JK-SS
Color	1	Black	Black	Black	Black	Black	Black
	2	White	-	-	White	White	White
	3	-	-	-	-	-	-
Hose joint	Brake lever	Straight	Straight	Straight	Straight	Straight	Straight
	Brake caliper	Banjo	Banjo	Banjo	Banjo	Straight	Straight
Rigidity		High power	High power	High power	High power	High power	Standard
Banjo	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Length	Standard	Long	Standard	Standard	-	-
	Banjo bolt length	Long	Short	Long	Short	-	-
	Banjo bolt material	Steel	Steel	Steel	Steel	-	-
Connecting bolt	Material	Stainless	Stainless	Stainless	Stainless	Stainless	Stainless
Note							

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



- CN
- SMCN
- RT**
- BH**
- RTAD
- OT
- SMCB
- SMCA
- PM
- DH
- LP
- SMAX
- SC
- PD
- PD
- PD
- PD

Disc Brake Rotor Adapter

Series		SHIMANO
Model no.		SM-RTAD05
Color	1	Black
	2	-
	3	-
Lock ring	Type	External serration
	Material	Steel
Disc brake rotor mount method		Torx bolts
Compatibility (Disc brake rotor)	SM-RT86	-
	SM-RT76	-
	SM-RT66	X
	SM-RT56	X
Compatibility (Axle)	F20 Thru	X
	F15 E-THRU	X
	F9 QR	X
	R12 E-THRU	X
	R12 Thru	X
	R10 Thru	X
R10 QR		X
		X
Note		Use this disc brake rotor adapter to attach the 6-bolt mount type disc brake rotor to CENTER LOCK mount type hub. Cannot be used with the 6-bolt disc brake rotor that is installed with an Aluminum adapter (SM-RT86/RT76.)

Outer Casing

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

Cable adjuster

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

POWER MODULATOR

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

- CN
- SMCN
- RT
- BH
- RTAD
- OT
- SMCB
- SMCA
- PM
- DH
- LP
- SMAX
- SC
- PD
- PD
- PD
- PD

Hub Dynamo

Series		SHIMANO	SHIMANO	DEORE XT	ALIVIO	ALIVIO	SHIMANO	
Model no.		DH-UR705-3D	DH-UR700-3D	DH-T8000-3D	DH-T4050-1D	DH-T4000-1N	DH-3D72	
Regulation	StVZO	X	X	X	X	X	X	
	TPGBi	-	-	-	-	-	X	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Hub shell	Silver	Silver	Series color	Silver	Silver	
		QR lever	-	Silver	Black	Black	-	Silver
	2	Hub shell	Black	Black	-	Black	Black	Black
		QR lever	-	Black	Black	Black	-	Black
Type		Disc brake	Disc brake	Disc brake	Disc brake	Regular	Disc brake	
CENTER LOCK mount type		X	X	X	X	-	X	
Voltage (V)		6	6	6	6	6	6	
Output (W)		3	3	3	1.5	1.5	3	
Wheel size	26-28 inch	X	X	X	-	-	X	
	20-28 inch	-	-	-	-	-	-	
	18-28 inch	-	-	-	X	X	-	
	16-28 inch	-	-	-	-	-	-	
	24-28 inch	-	-	-	-	-	-	
	20-24 inch	-	-	-	-	-	-	
	16-20 inch	-	-	-	-	-	-	
Compatible wheel size (mm)		(646-716)	(646-716)	(646-716)	(448-716)	(448-716)	(646-716)	
QR type		-	X	X	X	X	X	
Nut type		-	-	-	-	-	-	
E-THRU type		X*	-	-	-	-	-	
O.L.D. (mm)		100	100	100	100	100	100	
Flange Distance (mm)		52	52	52.1	51	56.0	52.1	
Offset (mm)		3.5	3.5	4	1.9	0	3.8	
P.C.D. Left/Right (mm)		62	62	70	67	67	70	
Axle length (mm)		100	108	108	108	108	108	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	X	X	X	X	X	X	
Seal		Single contact	Single contact	Single contact	Single contact	Single contact	Single contact	
Roller brake modulator grade	More than 26 inch	High	-	-	-	-	-	
		Standard	-	-	-	-	-	
	20-24 inch	-	-	-	-	-	-	
Electric power output connector	J1 type	-	-	-	-	-	-	
	J2 type	-	-	-	-	-	-	
	E2 type	X	X	X	X	X	X	
	Others	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized & Painted	Painted	Painted	Anodized & Painted / Anodized	
QR	Axle	Material	-	Aluminum	Aluminum	Steel	Steel	
		Finish	-	Chromated	Chromated	Zinc plated	Zinc plated	Zinc plated
	QR lever	Material	-	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
		Finish	-	Anodized	Anodized	E-Coating	E-Coating	Anodized
	QR housing	Material	-	Aluminum	Aluminum	Steel	Steel	Aluminum
		Finish	-	Anodized	Anodized	E-Coating	E-Coating	Anodized
	QR nut	Material	-	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	-	-	-	-	-	-
		133	-	X	X	X	X	X
Average Weight		450 g	476 g (w/o QR)	503 g	565 g	580 g	559 g	
Note		* Recommended E-THRU axle: SM-AX720			* For LED light use only	* For LED light use only		

Hub Dynamo

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		DH-3D37-QR	DH-3D37-NT	DH-3D32-QR	DH-3D32-NT	DH-3N72	DH-F703-S	
Regulation	StVZO	X	X	X	X	X	X	
	TPGBi	-	-	-	-	-	-	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Hub shell	Silver	Silver	Clear	Clear	Silver	Silver
		QR lever	-	-	-	-	Silver	Black
	2	Hub shell	Black	Black	Black	Black	Black	-
		QR lever	-	-	-	-	Silver	Black
Type		Disc brake	Disc brake	Disc brake	Disc brake	Regular	Regular	
CENTER LOCK mount type		X	X	-	-	-	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		3	3	3	3	3	3	
Wheel size	26-28 inch	-	-	-	-	X	-	
	20-28 inch	-	-	-	-	-	-	
	18-28 inch	-	-	-	-	-	-	
	16-28 inch	X	X	X	X	-	-	
	24-28 inch	-	-	-	-	-	-	
	20-24 inch	-	-	-	-	-	-	
	16-20 inch	-	-	-	-	-	X	
Compatible wheel size (mm)		(400-716)	(400-716)	(400-716)	(400-716)	(646-716)	(400-536)	
QR type		X	-	X	-	X	X	
Nut type		-	X	-	X	-	-	
E-THRU type								
O.L.D. (mm)		100	100	100	100	100	74	
Flange Distance (mm)		51	51	51.1	51.1	60.0	44.6	
Offset (mm)		4	3.6	4	3.6	0	0	
P.C.D. Left/Right (mm)		74	74	74	74	70	74	
Axle length (mm)		108	140	108	140	108	82	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	X	
	28H	-	-	-	-	-	X	
	32H	X	X	X	X	X	-	
	36H	X	X	X	X	X	-	
Seal		Single contact	Single contact	Single contact	Single contact	Single contact	Single contact	
Roller brake modulator grade	More than 26 inch	High	-	-	-	-	-	
		Standard	-	-	-	-	-	
	20-24 inch	-	-	-	-	-	-	
Electric power output connector	J1 type	-	-	-	-	-	-	
	J2 type	-	-	-	-	-	-	
	E2 type	X	X	X	X	X	X	
	Others	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Anodized & Painted	Painted	
QR	Axle	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Zinc plated	Phosphate coated	Zinc plated	Phosphate coated	Zinc plated	Zinc plated
	QR lever	Material	Steel	-	Steel	-	Aluminum	Aluminum
		Finish	Nickel plated	-	Nickel plated	-	Anodized	Anodized
	QR housing	Material	Steel	-	Steel	-	Aluminum	Aluminum
		Finish	Nickel plated	-	Nickel plated	-	Anodized	Anodized
	QR nut	Material	Resin & Steel	-	Resin & Steel	-	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	-	-	-	-	-	-
		133	X	-	X	-	X	X
Average Weight		650 g	680 g	685 g	705 g	560 g	590 g	
Note								

- CN
- SMCN
- RT
- BH
- RTAD
- OT
- SMCB
- SMCA
- PM
- DH**
- LP
- SMAX
- SC
- PD
- PD
- PD
- PD

Hub Dynamo

Series		ALFINE	ALFINE	NEXUS	NEXUS	NEXUS	NEXUS	
Model no.		DH-S701	DH-S501	DH-C6000-3R-NT	DH-C6000-2R	DH-C6000-1R	DH-C3000-3N-QR	
Regulation	StVZO	X	X	X	-	X	X	
	TPGBi	-	-	X	-	-	X	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Hub shell	Silver	Silver	Silver	Silver	Silver	
		QR lever	Silver	Silver	Black	-	-	-
	2	Hub shell	Piano Black	Piano Black	-	Black	Black	Black
		QR lever	Silver	Silver	-	-	-	-
Type		Disc brake	Disc brake	Hub Roller Brake	Hub Roller Brake	Hub Roller Brake	Regular	
CENTER LOCK mount type		X	X	-	-	-	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		1.5	3	3	2.4	1.5	3.0	
Wheel size	26-28 inch	-	X	X	X	X	-	
	20-28 inch	X	-	-	-	-	-	
	18-28 inch	-	-	-	-	-	-	
	16-28 inch	-	-	-	-	-	X	
	24-28 inch	-	-	-	-	-	-	
	20-24 inch	-	-	-	-	-	-	
	16-20 inch	-	-	-	-	-	-	
Compatible wheel size (mm)		(492-716)	(646-716)	(646-716)	(646-716)	(646-716)	(400-716)	
QR type		X	X	-	-	-	X	
Nut type		-	-	X	X	X	-	
E-THRU type		-	-	-	-	-	-	
O.L.D. (mm)		100	100	100	100	100	100	
Flange Distance (mm)		54	52.1	58.1	58.1	58.1	60.0	
Offset (mm)		3.1	3.8	4.7	4.7	4.7	0.6	
P.C.D. Left/Right (mm)		57	70	76	76	76	74	
Axle length (mm)		108	108	140	140	140	108	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	X	X	X	X	X	X	
Seal		Single contact	Single contact	Single Contact	Single contact	Single contact	Single contact	
Roller brake modulator grade	More than 26 inch	High	-	X	X	X	-	
		Standard	-	-	X	X	-	
	20-24 inch	-	-	-	-	-	-	
Electric power output connector	J1 type	-	-	-	-	-	-	
	J2 type	-	-	-	-	-	-	
	E2 type	X	X	X	X	X	X	
	Others	-	-	Aluminum	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Painted	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Steel	Painted	Painted	Painted	
QR	Axle	Material	Steel	Steel	Manganese Phosphate Coated	Steel	Steel	
		Finish	Zinc plated	Zinc plated	-	Phosphate coated	Phosphate coated	Phosphate coated
	QR lever	Material	Aluminum	Aluminum	-	-	-	Steel
		Finish	Anodized	Anodized	-	-	-	Nickel plated
	QR housing	Material	Aluminum	Aluminum	-	-	-	Steel
		Finish	Anodized	Anodized	-	-	-	Nickel plated
	QR nut	Material	Resin & Steel	Resin & Steel	-	-	-	Resin & Steel
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	-	-	-	-	-	X
		133	X	X	-	-	-	X
Average Weight		430 g	564 g	960g	960 g	960 g	700 g	
Note		* For LED light use only			* For LED light use only			

Hub Dynamo

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	
Model no.		DH-C3000-3N-NT	DH-C3000-2N-QR	DH-C3000-2N-NT	DH-C3000-1N	DH-C2100-N	DH-C2100-NC	
Regulation	StVZO	X	-	-	X	-	-	
	TPGbi	X	-	-	-	-	-	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	VIA	VIA	
Color	1	Hub shell	Silver	Silver	Silver	Silver	Silver	
		QR lever	-	-	-	-	-	
	2	Hub shell	Black	Black	Black	Black	Black	
		QR lever	-	-	-	-	-	
Type		Regular	Regular	Regular	Regular	Regular	Regular	
CENTER LOCK mount type		-	-	-	-	-	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		3.0	2.4	2.4	1.5	0.9	0.9	
Wheel size	26-28 inch	-	-	-	-	-	-	
	20-28 inch	-	-	-	X	-	-	
	18-28 inch	-	-	-	-	-	-	
	16-28 inch	X	X	X	-	-	-	
	24-28 inch	-	-	-	-	X	-	
	20-24 inch	-	-	-	-	-	X	
	16-20 inch	-	-	-	-	-	-	
Compatible wheel size (mm)		(400-716)	(400-716)	(400-716)	(448-716)	-	-	
QR type		-	X	-	-	-	-	
Nut type		X	-	X	X	X	X	
E-THRU type		-	-	-	-	-	-	
O.L.D. (mm)		100	100	100	100	93	93	
Flange Distance (mm)		60.0	60.0	60.0	56.0	58	58	
Offset (mm)		1.0	0.6	1.0	0	0.5	0.5	
P.C.D. Left/Right (mm)		74	74	74	67	60	60	
Axle length (mm)		140	108	140	140	155 / 150	155 / 150	
Spoke size		#14	#14	#14	#14	#13/#14	#13/#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	X	-	-	-	-	X	
	32H	X	X	X	X	-	-	
	36H	X	X	X	X	X	-	
Seal		Single contact	Single contact	Single contact	Single contact	Single contact	Single contact	
Roller brake modulator grade	More than 26 inch	High	-	-	-	-	-	
		Standard	-	-	-	-	-	
Electric power output connector	20-24 inch	-	-	-	-	-	-	
	J1 type	-	-	-	-	-	-	
	J2 type	-	-	-	-	-	-	
	E2 type	X	X	X	X	-	-	
Others		-	-	-	-	X (J2-A)	X (J2-A)	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted (Black) / Passivation (Silver)	Painted (Black) / Passivation (Silver)	
QR	Axle	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated	Plated	Plated
	QR lever	Material	-	Steel	-	-	-	-
		Finish	-	Nickel plated	-	-	-	-
	QR housing	Material	-	Steel	-	-	-	-
		Finish	-	Nickel plated	-	-	-	-
	QR nut	Material	-	Resin & Steel	-	-	-	-
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	-	X	-	-	-	-
		133	-	X	-	-	-	-
Average Weight		712 g	700 g	705 g	600 g	491 g	491 g	
Note					* For LED light use only	* Specification for Japan market	* Specification for Japan market	

- CN
- SMCN
- RT
- BH
- RTAD
- OT
- SMCB
- SMCA
- PM
- DH**
- LP
- SMAX
- SC
- PD
- PD
- PD
- PD

Hub Dynamo

Series		NEXUS	NEXUS	SHIMANO	NEXUS	NEXUS	SHIMANO	
Model no.		DH-C2100-N-QR	DH-C2100-N-QRC	DH-C2100-D-NT	DH-2N40-J	DH-2N40-JC	DH-2N40-JW	
Regulation	StVZO	-	-	-	-	-	-	
	TPGBi	-	-	-	-	-	-	
	JIS	-	-	-	X	X	X	
	Others	VIA	VIA	VIA	-	-	-	
Color	1	Hub shell	Silver	Silver	Silver	Silver	Silver	
		QR lever	Silver	Silver	-	-	-	
	2	Hub shell	Black	Black	Black	Black	Black	
		QR lever	Black	Silver	-	-	-	
Type		Regular	Regular	Disc brake	Regular	Regular	Regular	
CENTER LOCK mount type		-	-	X	-	-	-	
Voltage (V)		6	6	6V	6	6	6	
Output (W)		0.9	0.9	0.9W	2.4	2.4	2.4	
Wheel size	26-28 inch	-	-	-	-	-	-	
	20-28 inch	-	-	-	-	-	-	
	18-28 inch	-	-	-	-	-	-	
	16-28 inch	-	-	-	-	-	-	
	24-28 inch	X	-	X	X	-	X	
	20-24 inch	-	X	-	-	X	-	
	16-20 inch	-	-	-	-	-	-	
Compatible wheel size (mm)		-	-	-	-	-	-	
QR type		X	X	-	-	-	-	
Nut type		-	-	-	X	X	X	
E-THRU type		-	-	-	-	-	-	
O.L.D. (mm)		100	100	100	93	93	100	
Flange Distance (mm)		58	58	52.5	60	60	60	
Offset (mm)		0.5	0.5	4.8	0	0	3	
P.C.D. Left/Right (mm)		60	60	60	69	69	69	
Axle length (mm)		108	108	140	155 / 150	150	140	
Spoke size		#13 / #14	#13 / #14	#13 / #14	#13 / #14	#14	#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	-	X	-	
	32H	X	X	X	-	-	-	
	36H	X	X	X	X	-	X	
Seal		Single contact	Single contact	Single contact	Single contact	Single contact	Single contact	
Roller brake modulator grade	More than 26 inch	High	-	-	-	-	-	
		Standard	-	-	-	-	-	
	20-24 inch	-	-	-	-	-	-	
Electric power output connector	J1 type	-	-	-	-	-	-	
	J2 type	-	-	-	X	X	X	
	E2 type	-	-	-	-	-	-	
	Others	X (J2-A)	X (J2-A)	X (J2-A)	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum & Steel	Aluminum & Steel	Aluminum & Steel	
	Finish	Painted (Black) / Passivation (Silver)	Painted (Black) / Passivation (Silver)	Painted (Black) / Passivation (Silver)	Painted / Passivation	Painted / Passivation	Painted / Passivation	
QR	Axle	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Phosphate coated	Phosphate coated	Plated	Zinc plated	Zinc plated	Zinc plated
	QR lever	Material	Steel	Steel	-	-	-	-
		Finish	Plated	Plated	-	-	-	-
	QR housing	Material	Steel	Steel	-	-	-	-
		Finish	Plated	Plated	-	-	-	-
	QR nut	Material	Resin & Steel	Resin & Steel	-	-	-	-
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	X	X	-	-	-	-
		133	X	X	-	-	-	-
Average Weight		474 g	474 g	500 g	630 g	630 g	630 g	
Note		* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	

Hub Dynamo

Series		SHIMANO	
Model no.		DH-2N40-JWC	
Regulation	StVZO		-
	TPGBi		-
	JIS		X
	Others		-
Color	1	Hub shell	Silver
		QR lever	-
	2	Hub shell	Black
		QR lever	-
Type		Regular	
CENTER LOCK mount type		-	
Voltage (V)		6	
Output (W)		2.4	
Wheel size	26-28 inch		-
	20-28 inch		-
	18-28 inch		-
	16-28 inch		-
	24-28 inch		-
	20-24 inch		X
	16-20 inch		-
Compatible wheel size (mm)		-	
QR type		-	
Nut type		X	
E-THRU type		-	
O.L.D. (mm)		100	
Flange Distance (mm)		60	
Offset (mm)		3	
P.C.D. Left/Right (mm)		69	
Axle length (mm)		140	
Spoke size		#14	
Spoke hole	24H		-
	28H		-
	32H		-
	36H		X
Seal		Single contact	
Roller brake modulator grade	More than 26 inch	High	-
		Standard	-
	20-24 inch		-
Electric power output connector	J1 type		-
	J2 type		X
	E2 type		-
	Others		-
Hub shell	Material		Aluminum & Steel
	Finish		Painted / Passivation
QR	Axle	Material	Steel
		Finish	Zinc plated
	QR lever	Material	-
		Finish	-
	QR housing	Material	-
		Finish	-
	QR nut	Material	-
		Finish	-
QR Skewer Length (mm)	129	-	
	133	-	
Average Weight		630 g	
Note		* Specification for Japan market	

- CN
- SMCN
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- BH
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- SMCB
- SMCA
- PM
- DH**
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- SC
- PD
- PD
- PD
- PD

Light

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	SHIMANO
Model no.		LP-C2200-B	LP-C2200-S	LP-C2201-B	LP-C2201-S	LP-C2207-B	LP-C2207-C
Function name		HILMO	HILMO	HILMO	HILMO	HILMO	HILMO
Auto light		-	-	-	-	-	-
Type of light	Front	X	X	X	X	X	X
	Tail (Rear)	-	-	-	-	-	-
Hub dynamo output		0.9 W	0.9 W	0.9 W	0.9 W	0.9 W	0.9 W
Main light		High Power LED	High Power LED	High Power LED	High Power LED	High Power LED	High Power LED
Brightness (At 5 m distance, JIS standard = 16 lx)		40 lx	40 lx	40 lx	40 lx	40 lx	40 lx
Lighting pattern		WIDE	WIDE	WIDE	WIDE	WIDE	WIDE
Sub light		-	-	-	-	-	-
Stand light (LED flashing) function		-	-	-	-	-	-
Reflector integration		X	X	X	X	-	-
Electric power input	Tab-on type	-	-	-	-	-	-
	Connector type	J2-A	J2-A	J2-A	J2-A	J2-A	J2-A
Light body material		Resin	Resin	Resin	Resin	Resin	Resin
Color	1	CP	CP	CP	CP	Silver/Black/Black	CP/Silver/Black
	2	Silver (Painted)	Silver (Painted)	Silver (Painted)	Silver (Painted)	Black/Gray/Black	CP/Silver/White
	3	White	White	White	White	-	-
	4	Black	Black	Black	Black	-	-
	5	Gray	Gray	Gray	Gray	-	-
	6	-	-	-	-	-	-
Attachment position	Light stay	-	X	-	X	-	-
	Below basket	X	-	X	-	X	-
	Fork center	-	-	-	-	-	X
	Handle bar	-	-	-	-	-	-
	On mud guard	-	-	-	-	-	-
	Mud guard style stay	-	-	-	-	-	-
	Seat stay	-	-	-	-	-	-
Compatible seat stay diameter (mm)	13	-	-	-	-	-	-
	16	-	-	-	-	-	-
	19	-	-	-	-	-	-
Compatible handle bar diameter (mm)	22.2	-	-	-	-	-	-
	25.4	-	-	-	-	-	-
	31.8	-	-	-	-	-	-
Switch	Auto	-	-	-	-	-	-
	Manual (on)	-	-	-	-	-	-
	Manual (off)	-	-	-	-	-	-
	Permanent	X	X	X	X	X	X
Electric wire color	Black	-	-	-	-	-	X
	Gray	X	X	X	X	X	-
Electric wire length(mm)	Tab-on type	-	-	-	-	-	-
	Connector type	715	405	715	405	710	500
EZ cable clamp		-	-	-	-	-	-
Cord length adjuster		-	-	-	-	-	-
Compatible wheel size		-	-	-	-	-	-
Note		* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market

Light

Series		SHIMANO	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		LP-C2250-H	LP-C2111-B	LP-C2111-S	LP-X100	LP-X101	LP-X101-H
Function name		HILMO	HILMO FLASH	HILMO FLASH	-	-	-
Auto light		-	-	-	X	X	X
Type of light	Front	X	X	X	X	X	X
	Tail (Rear)	-	-	-	-	-	-
Hub dynamo 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	High Power LED	High Power LED	High Power LED	High Power LED	High Power LED
Brightness (At 5 m distance, JIS standard = 16 lx)		40 lx	40 lx	40 lx	80 lx	80 lx	80 lx
Lighting pattern		WIDE	Normal	Normal	Normal	Normal	Normal
Sub light		-	-	-	-	-	-
Stand light (LED flashing) function		-	X	X	-	-	-
Reflector integration		-	X	X	-	-	X
Electric power input	Tab-on type	-	-	-	X	X	X
	Connector type	J2-A	J2A	J2A	X	X	X
Light body material		Resin	Resin	Resin	Resin	Resin	Resin
Color	1	Silver/Black	CP	CP	Silver (Painted)	Silver (Painted)	Silver (Painted)
	2	-	Silver (Painted)	Silver (Painted)	White (Painted)	White (Painted)	White (Painted)
	3	-	White	White	Black	Black	Black
	4	-	Black	Black	Gray	Gray	Gray
	5	-	Gray	Gray	-	-	-
	6	-	-	-	-	-	-
Attachment position	Light stay	-	-	X	X	X	X
	Below basket	-	X	-	-	-	-
	Fork center	-	-	-	-	-	-
	Handle bar	X	-	-	-	-	-
	On mud guard	-	-	-	-	-	-
	Mud guard style stay	-	-	-	-	-	-
Compatible seat stay diameter (mm)	13	-	-	-	-	-	-
	16	-	-	-	-	-	-
	19	-	-	-	-	-	-
Compatible handle bar diameter (mm)	22.2	X	-	-	-	-	-
	25.4	X	-	-	-	-	-
	31.8	X	-	-	-	-	-
Switch	Auto	-	-	-	X	X	X
	Manual (on)	-	-	-	X	X	X
	Manual (off)	-	-	-	-	-	-
	Permanent	X	X	X	-	-	-
Electric wire color	Black	X	-	-	X	X	X
	Gray	-	X	X	-	-	-
Electric wire length(mm)	Tab-on type	-	-	-	675	400	410
	Connector type	800	715	405	125	120	160
EZ cable clamp		X	-	-	-	-	-
Cord length adjuster		-	-	-	-	-	-
Compatible wheel size		-	-	-	-	-	-
Note		* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market

- CN
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- PD

Light

Series		NEXUS
Model no.		LP-NX60-R
Function name		-
Auto light		-
Type of light	Front	X
	Tail (Rear)	-
Hub dynamo output		6 V-2.4 W
Main light		Super Bright Red LED
Brightness (At 5 m distance, JIS standard = 16 lx)		-
Lighting pattern		-
Sub light		-
Stand light (LED flashing) function		X (if used with LP-X103)
Reflector integration		-
Electric power input	Tab-on type	-
	Connector type	X
Light body material		Resin
Color	1	Silver (Painted)
	2	White (Painted)
	3	Black (Painted)
	4	-
	5	-
	6	-
Attachment position	Light stay	-
	Below basket	-
	Fork center	-
	Handle bar	-
	On mud guard	X *
	Mud guard style stay	-
	Seat stay	-
Compatible seat stay diameter (mm)	13	-
	16	-
	19	-
Compatible handle bar diameter (mm)	22.2	-
	25.4	-
	31.8	-
Switch	Auto	-
	Manual (on)	-
	Manual (off)	-
	Permanent	X
Electric wire color	Black	X
	Gray	X
Electric wire length(mm)	Tab-on type	-
	Connector type	Available
EZ cable clamp		-
Cord length adjuster		-
Compatible wheel size		22/24/26/27 inch
Note		* Specification for Japan market (attached with special stay. 2 kinds of stays are available. One for IHG, another for RH/ FH)

E-THRU axle (AX)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-AX720-100x12	SM-AX720-142x12	AX-MT700-142x12	AX-MT700-148x12	AX-MT500-142x12	AX-MT500-148x12
Axle type	135 x 10 mm	-	-	-	-	-	-
	100 x 12 mm	X	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-	-
	142 x 12 mm	-	X	X	-	X	-
	148 x 12 mm	-	-	-	X	-	X
Lever position adjustment	Tool-less type	-	-	-	-	-	-
	Hexagon wrench type	X	X	X	X	X	X
Axle	Thread pitch	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5
	Length (mm)	121	163	166	172	166	172
	Hollow axle	X	X	X	X	X	X
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Silver)	Anodized (Silver)
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Painted (Black)	Painted (Black)
Housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Painted (Black)	Painted (Black)
Fixing nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight		65 g	74 g	75 g	76 g	79 g	80 g
Note							

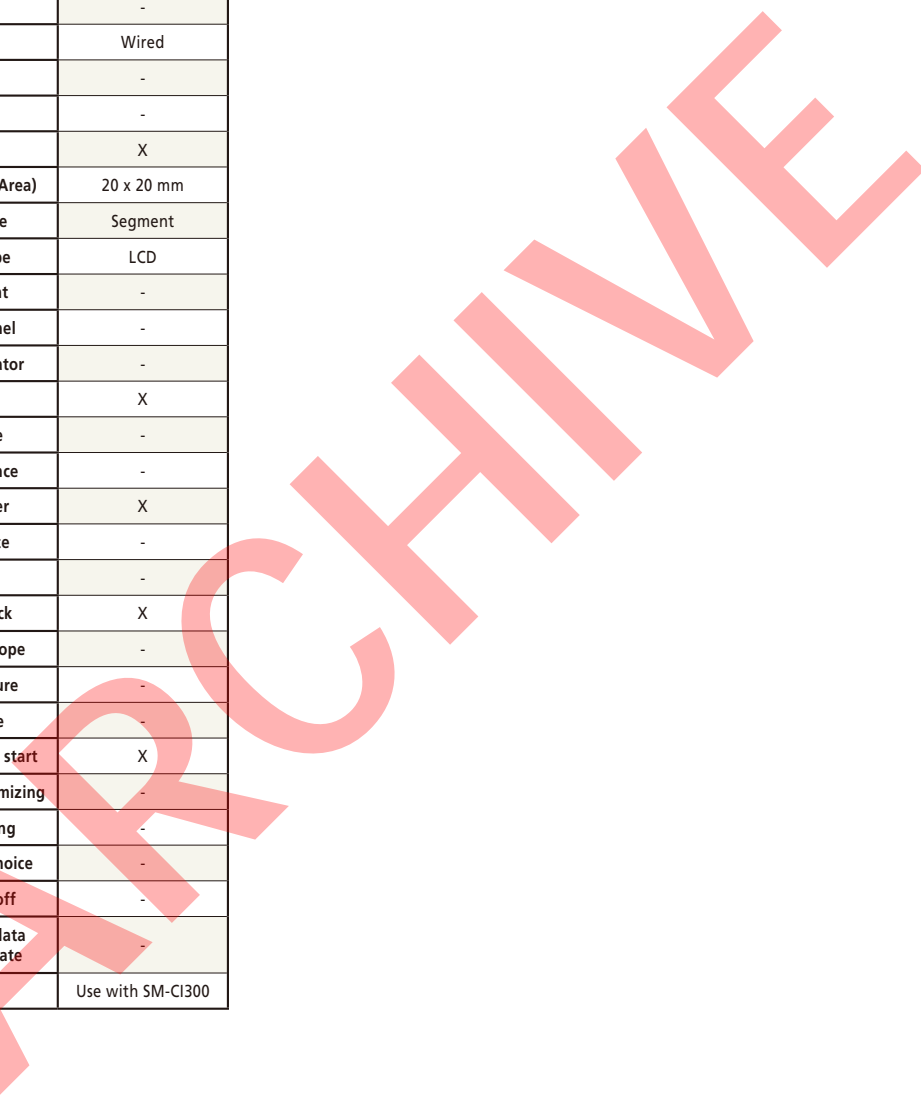
Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-AX78	SM-AX78-B	SM-AX76	SM-AX76-B	SM-AX58	SM-AX58-B
Axle type	135 x 10 mm	-	-	-	-	-	-
	100 x 12 mm	-	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-	-
	142 x 12 mm	X	-	X	-	X	-
	148 x 12 mm	-	X	-	X	-	X
Lever position adjustment	Tool-less type	X	X	X	X	X	X
	Hexagon wrench type	-	-	-	-	-	-
Axle	Thread pitch	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5
	Length (mm)	166	172	171	177	166	172
	Hollow axle	X	X	X	X	X	X
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Silver)	Anodized (Silver)
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Painted (Black)	Painted (Black)
Housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)
Fixing nut	Material	-	-	Aluminum	Aluminum	-	-
	Finish	-	-	Anodized (Black)	Anodized (Black)	-	-
Average weight		77 g	78 g	69 g	71 g	81 g	82 g
Note							

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

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Cycle Computer

Series	CI-DECK	
Model no.	SC-CI300	
Compatible system	Mechanical	
Attachement position	Handle Bar	
Battery type	CR2032	
Charging for cycle computer	-	
Rear speeds	-	
Front speeds	-	
Number of programable wheel size	1	
Wheel size range	20"-22"-24"-26"	
Remote switch	-	
Communications	Wired	
Memory capacity	-	
PC software available	-	
Detachable	X	
Display spec	Size (Active Area)	20 x 20 mm
	Font type	Segment
	Panel type	LCD
	Back light	-
	Touch panel	-
Display function	Gear indicator	-
	Speed	X
	Cadence	-
	Trip distance	-
	Odometer	X
	Heart rate	-
	Power	-
	Time/Clock	X
	Altitude/Slope	-
	Temperature	-
	Lap time	-
	Auto display start	X
Setting function	Display customizing	-
	Unit setting	-
	Language choice	-
	Beep on/off	-
	Changing data sampling rate	-
Note	Use with SM-CI300	



Pedal (SPD)

Series	XTR	XTR	DEORE XT	DEORE XT	SHIMANO	SHIMANO
Model no.	PD-M9100	PD-M9120	PD-M8000	PD-M8020	PD-M540	PD-M530
Color 1	Black	Black	Black	Black	Silver	Black
Color 2	-	-	-	-	Black	White
Color 3	-	-	-	-	-	-
Type	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)
Binding	Dual Sided	Dual Sided	Dual sided	Dual sided	Dual Sided	Dual Sided
Pedal axle material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartridge axle	X	X	X	X	X	X
Sealed mechanism	X	X	X	X	X	X
Cleat retention adjuster	X	X	X	X	X	X
Pop-up cage	-	-	-	-	-	-
Integrated cage	-	X	-	X	-	X
Offset binding	X	-	-	-	-	-
Oval shape axle body housing	-	-	-	-	-	-
Cleat included	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51
Optional cleat	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56
Reflector	SM-PD60, SM-PD22 (3 mm shorter axle type)	SM-PD60	SM-PD60	SM-PD60	SM-PD22	SM-PD60
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized (Silver) / Painted (Bronze)	Anodized (Black) / Painted (White)
Cage	Material	-	-	-	-	-
Average weight (pair)	310 g (Short axle type) 314 g (Normal axle type)	398 g	343 g	408 g	352 g	455 g
Note	3 mm shorter axle available 1.0mm cleat spacer included	1.0mm cleat spacer included	1.0mm cleat spacer included	1.0mm cleat spacer included		

Series	SHIMANO	SHIMANO	SAINT	DXR	SHIMANO	SHIMANO
Model no.	PD-M520	PD-M505	PD-M820	PD-MX70	PD-M647	PD-M424
Color 1	Silver	Silver	Black	Black	Black	Black
Color 2	Black	Black	-	-	-	-
Color 3	-	-	-	-	-	-
Type	Off-Road (SPD)	Off-Road (SPD)	Off-Road/DH (SPD)	Off-Road (SPD)	Off-Road/BMX (SPD)	Off-Road/BMX (SPD)
Binding	Dual Sided	Dual Sided	Dual sided	Dual sided	Dual Sided	Dual Sided
Pedal axle material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartridge axle	X	-	X	X	X	X
Sealed mechanism	X	X	X	X	X	X
Cleat retention adjuster	X	X	X	X	X	X
Pop-up cage	-	-	-	-	X	X
Integrated cage	-	-	X	X	-	-
Offset binding	-	-	-	-	-	-
Oval shape axle body housing	-	-	-	-	-	-
Cleat included	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51
Optional cleat	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56
Reflector	SM-PD22	SM-PD22	SM-PD60	SM-PD60	SM-PD60	SM-PD40
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Polished (Silver) / Painted (Black) / Painted (White)	Polished (Silver) / Painted (Black)	Painted	Anodized	Painted
Cage	Material	-	-	-	Resin	Resin
Average weight (pair)	380 g	443 g	546 g (w/o pins & washers)	414 g	568 g	472 g
Note			4 height adjustable pins 1.0mm cleat spacer included	Higher retention force and narrower release angle than normal SPD pedals 1.0mm cleat spacer included		

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Pedal (SPD)

Series	SHIMANO	DEORE XT	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-M324	PD-T8000	PD-ES600	PD-EH500	PD-ED500
Color 1	Silver	Black	Dark Gray	Dark Gray	Dark Gray
Color 2	-	-	-	-	-
Color 3	-	-	-	-	-
Type	Multi-purpose (SPD/Flat)	Trekking (SPD/Flat)	Road (SPD)	Multi-purpose (SPD/Flat)	Road (SPD)
Binding	Single Sided	Single Sided	Single Sided	Single Sided	Dual Sided
Pedal axle material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartridge axle	-	X	X	X	X
Sealed mechanism	X	X	X	X	X
Cleat retention adjuster	X	X	X	X	X
Pop-up cage	-	-	-	-	-
Integrated cage	-	-	-	-	X
Offset binding	-	-	-	-	-
Oval shape axle body housing	-	-	-	-	-
Cleat included	SM-SH56	SM-SH56	SM-SH51	SM-SH56	SM-SH56
Optional cleat	SM-SH51	SM-SH51	SM-SH56	SM-SH51	SM-SH51
Reflector	Y41B98010	Integrated	SM-PD62	SM-PD68	SM-PD60
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Painted	Painted (Dark Gray)
Cage	Material	Steel	-	-	-
Average weight (pair)	533 g	392 g	279 g	383 g	442 g
Note			1.0mm cleat spacer included	Light action	Light action

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Pedal (CLICK'R)

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-T400	PD-T421	PD-MT50
Color 1	Black	Black	Black
Color 2	White	-	-
Color 3	-	-	-
Type	Trekking (CLICK'R)	Trekking (CLICK'R)	Recreational use (CLICK'R)
Binding	Dual Sided	Single Sided	Dual Sided
Pedal axle material	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartridge axle	X	X	X
Sealed mechanism	X	X	X
Cleat retention adjuster	X	X	X
Pop-up cage	X	X	X
Integrated cage	-	-	-
Offset binding	-	-	-
Oval shape axle body housing	-	-	-
Cleat included	SM-SH56	SM-SH56	SM-SH56
Optional cleat	SM-SH51	SM-SH51	SM-SH51
Reflector	Integrated	Integrated	SM-PD60
Pedal body	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Cage	Material	Resin	Resin
Average weight (pair)	507 g	418 g	498 g
Note			

Pedal (Flat Pedal)

Series	SAINT	DEORE XT	SHIMANO
Model no.	PD-M828	PD-M8040	PD-GR500
Color 1	Black	Black	Black
Color 2	-	-	Silver
Color 3	-	-	-
Type	Off-Road (Flat Pedal)	Off-Road (Flat Pedal)	Off-Road (Flat Pedal)
Binding	-	-	-
Pedal axle material	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartridge axle	X	X	X
Sealed mechanism	X	X	X
Cleat retention adjuster	-	-	-
Pop-up cage	-	-	-
Integrated cage	-	-	-
Offset binding	-	-	-
Oval shape axle body housing	-	-	-
Cleat included	-	-	-
Optional cleat	-	-	-
Reflector	SM-PD64A	SM-PD67	SM-PD64A
Pedal body	Material	Aluminum	Aluminum
	Finish	Anodized	Painted
Cage	Material	-	-
Average weight (pair)	553 g	SM : 469 g ML : 514 g	533 g
Note	12 pins per platform	10 pins per platform 2 platform size available (SM/ML)	9 pins per platform

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SMCA
- PM
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- SMAX
- SC
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Pedal (SPD-SL)

Series	DURA-ACE	ULTEGRA	105	SHIMANO	SHIMANO	SHIMANO	
Model no.	PD-R9100	PD-R8000	PD-R7000	PD-R550	PD-R540-LA	PD-R540	
Color 1	CFRP	CFRP	CFRP	Black	Black	Silver	
Color 2	-	-	-	Gray	White	Black	
Color 3	-	-	-	-	-	White	
Type	Road	Road	Road	Road	Road	Road	
Binding	Single Sided	Single Sided	Single Sided	Single Sided	Single Sided	Single Sided	
Pedal axle material	Nickel Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	
Cartridge axle	-	X	X	X	X	X	
Sealed mechanism	X	X	X	X	X	X	
Cleat retention adjuster	X	X	X	X	X	X	
Cleat included	SM-SH12	SM-SH11	SM-SH11	SM-SH11	SM-SH11	SM-SH11	
Optional cleat	SM-SH10 / SM-SH11	SM-SH10 / SM-SH12	SM-SH10 / SM-SH12	SM-SH10 / SM-SH12	SM-SH10 / SM-SH12	SM-SH10 / SM-SH12	
Reflector	SM-PD63	SM-PD63	SM-PD65	SM-PD65	SM-PD58	SM-PD58	
Pedal body	Material	Carbon	Carbon	Carbon	Resin	Aluminum	Aluminum
	Finish	-	-	-	Painted	Painted	Painted
Body cover material	Special Stainless	Special Stainless	Stainless	Stainless	Resin	Resin	
Wide platform	X	X	X	X	-	-	
Road clearance	35 °	33 °	31 °	32 °	34 °	34 °	
Average weight (pair)	228 g	248 g	265 g	310 g	330 g	330 g	
Note	4 mm longer axle available Hollow Cleat bolts	4 mm longer axle available	-	Wider spring tension range	Light action	-	

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DI2 Spec

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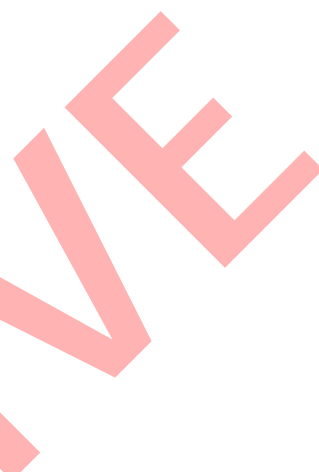
Shifting Switch

Series	XTR	XTR	SHIMANO DEORE XT	SHIMANO DEORE XT
Model no.	SW-M9050-R	SW-M9050-L	SW-M8050-R	SW-M8050-L
Switch type	FIREBOLT	FIREBOLT	FIREBOLT	FIREBOLT
Position	Clamp band, Right	Clamp band, Left	Clamp band, Right	Clamp band, Left
Compatible EW	EW-SD50	EW-SD50	EW-SD50	EW-SD50
Switch QTY	2	2	2	2
E-TUBE connector (QTY)	0	0	0	0
E-TUBE port (QTY)	1	1	1	1
Multiple input	2 step	X	-(X)	-
	Hold	X	-(X)	-(X)
Rear derailleur switch				
Front derailleur switch				
Suspension switch	-	-(X)	-	-(X)
ASP switch				
3rd device switch				
Mount Position adjust	X	X	X	X
Master unit	-	-	-	-
Firmware update by E-TUBE PROJECT	X	X	X	X
Average weight	66 g/pc	66 g/pc	93 g/pc	93 g/pc
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

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Rear Derailleur

Series		XTR	XTR	SHIMANO DEORE XT
Model no.		RD-M9050-GS	RD-M9050-SGS	RD-M8050-GS
Pulley cage		GS	SGS	GS
Color	1	Series color	Series color	Series color
	2	-	-	-
Rear speeds		11	11	11
Compatible chain		HG-X11	HG-X11	HG-X11
Top-Normal spring type	SHIMANO SHADOW RD	X	X	X
	SHIMANO SHADOW RD+	X	X	X
	Double servo	-	-	-
Mount	Direct attachment (Conventional)	X	X	X
	Direct mount compatible	X*	X*	X*
Riveted adapter	Road type	-	-	-
	BMX-Track type	-	-	-
Mode converter				
Cable adjuster				
Max. front difference		10T	18T	10T
Total capacity		35T**	41T**	35T**
Low sprocket	Max.	42T (2x11-speed) 46T (1x11-speed)	40T (3x11-speed) 42T (2x11-speed) 46T (1x11-speed)	42T (2x11-speed) 46T (1x11-speed)
	Min.	40T	40T	40T
Top sprocket	Max.	11T	11T	11T
	Min.	11T	11T	11T
Fluor coated link bushings		4	4	4
Pulley	G pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	Teeth	11	11	11
	Bolts material	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	X	X	X
Bracket	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodizing	Anodizing	Anodizing
B-axle	Hollow axle	X	X	X
	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
B-axle 2	Hollow axle	X	X	X
	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Bracket body	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel
	Finish	-	-	-
Plate body	Material	CFRP	CFRP	GFRP
	Finish	Painted	Painted	-
Outer link	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted
Inner link	Material	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Painted
Outer plate	Material	CFRP	CFRP	Aluminum
	Finish	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Cable fixing Bolt	Material			
	Finish			
Stroke Adjusting Screw	Material			
	Finish			
E-TUBE port (QTY)		1	1	1
Average weight		290 g	295 g	319 g
Note		*w/o bracket spec available. ** The DI2 system limits cross chain to prevent a chain from getting loose.	*w/o bracket spec available. ** The DI2 system limits cross chain to prevent a chain from getting loose.	*w/o bracket spec available. ** The DI2 system limits cross chain to prevent a chain from getting loose.



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Front Derailleur

Series		XTR	XTR	SHIMANO DEORE XT	
Model no.		FD-M9050	FD-M9070	FD-M8070	
Color	1	Series color	Series color	Series color	
	2	-	-	-	
Speeds	Front	3	2	2	
	Rear	11	11	11	
Compatible chain		HG-X11	HG-X11	HG-X11	
Action	TOP SWING	-	-	-	
	Down Swing	X	X	X	
	SIDE SWING	-	-	-	
Mount	Clamp band	28.6 mm	w/ SM-FD905-L,SM-FD905-H	w/ SM-FD905-L,SM-FD905-H	w/ SM-AD905-L,SM-AD905-H
		31.8 mm	w/ SM-FD905-L,SM-FD905-H	w/ SM-FD905-L,SM-FD905-H	w/ SM-AD905-L,SM-AD905-H
		34.9 mm	w/ SM-FD905-L,SM-FD905-H	w/ SM-FD905-L,SM-FD905-H	w/ SM-AD905-L,SM-AD905-H
	With BB 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**	
	ISCG05 mount				
Cable route type	Dual-Pull				
	Top-Pull exclusive				
	Down-Pull exclusive				
	Front-Pull				
Chainline (mm)		50	48.8*	48.8*	
Chain stay angle		66-69	66-69	66-69	
Top gear teeth		40T	38-34T	38-34T	
Total capacity		18T	10T	10T	
Applicable Top-Mid tooth difference		10T	-	-	
Multi access cable fixing bolt					
Angled stroke adjust bolt					
Angled clamp band design					
Link bushings		7	7	7	
Front clamp band	Material				
	Finish				
Rear clamp band, base bracket	Material				
	Finish				
Clamp bolt	Material				
	Finish				
BB plate	Material				
	Finish				
Outer link	Material	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Steel	
	Finish	Painted	Painted	Plated	
Chain guide	Material	Aluminum	Aluminum	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	
Stroke Adjusting Screw	Material				
	Finish				
Master unit		-	-	-	
Firmware update by E-TUBE PROJECT		X	X	X	
E-TUBE port (pcs)		1	1	1	
E-TUBE connector (pcs)		-	-	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		125 g	112 g	134 g	
Note			* Compatible with the special crankset which chainline is 3 mm outboard.	* for FC 3 mm outboard spec, 51.8 mm ** Compatible with the special crankset which chainline is 3 mm outboard.	

Mount Adapter for Front Derailleur

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

ARCHIVE

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System Information Display

Series		SHIMANO	SHIMANO
Model no.		SC-M9051	SC-MT800
Compatible system		E-TUBE system	E-TUBE system
Wireless system***		ANT private*/Bluetooth®LE	ANT private*/Bluetooth®LE
Attachment position		Handle bar*	Handle bar**
Display detachable		-	-
Adjust button		X	X
Display function***	Gear indicator (Rear)	11	11
	Gear indicator (Front)	1/2/3	1/2/3
	Shifting Mode (Manual/Synchronized)	X	X
	Suspension Mode	X	X
	Shifting Adjust Mode	X	X
	Battery charge level	X	X
Setting function	Shifting adjust	X	X
For DI2 system	Shifting adjust indicator	X	X
	System diagnosis	X	X
	Charging port for built-in battery	X	X
	Compatible charger	SM-BCR2	SM-BCR2
	SYNCHRONIZED SHIFT mode change	X	X
Master unit		-	-
Firmware update by E-TUBE PROJECT		X	X
E-TUBE port (QTY)		3	3
Average weight		30 g	30 g
Note		*2 Spec of clamp band diameter ø31.8 and ø35.	* ANT private has compatibility with ANT+ cycle computer but not freely open profile **2 Spec of clamp band diameter. ø31.8 and ø35.0 ***Data of list of "Display function" is sent to other digital device by ANT private.

Internal Geared Hub

Series		ALFINE	ALFINE	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-S7051-11	SG-S7051-8	SG-C6061-8V	SG-C6061-8R	SG-C6061-8C	SG-C6061-8D
Function name		INTER-11	INTER-8	INTER-8	INTER-8	INTER-8	INTER-8
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Brake Type	Mount Type	CENTER LOCK disc brake	CENTER LOCK disc brake	V-BRAKE	INTER-M	Coaster Brake	CENTER LOCK disc brake
	Recommended Model	-	-	-	-	-	-
Speeds		11	8	8	8	8	8
Gear ratio	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
	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		DI2	DI2	DI2	DI2	DI2	DI2
Silent clutch		X	X	X	X	X	X
Gear change support mechanism		X	X	X	X	X	X
Shifting POWER MODULATOR		X	X	X	X	X	X
Driving efficiency		HIGH	High	High	High	High	High
w/ Left hand dust cap		-	-	X	-	-	-
O.L.D. (mm)		135	135	135	135	135	135
Spoke size		#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14
Spoke hole	28H	X	-	-	-	-	-
	32H	X	X	-	-	X	X
	36H	X	X	X	X	X	X
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	-	-	-
	184	-	-	-	-	-	-
	187	X	X	X	X	X	X
	193	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Flange distance (mm)		57.3	57.3	58.3	58.3	58.3	57.3
Flange diameter (mm)		104.3	104.3	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset (mm)		3.15	3.15	3.1	3.1	3.7	3.4
P.C.D Left / Right. (mm)		92.6	92.6	92.6	92.6	92.6	92.6
Hub shell	material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Average Weight		1,665 g	1,670 g	1,685 g	1,660 g	2,040 g	1,680 g
Note	

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Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-C6061-8CD	SG-C7050-5V	SG-C7050-5R	SG-C7050-5C	SG-C7050-5D
Function name		INTER-8	INTER-5E	INTER-5E	INTER-5E	INTER-5E
Color	1	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black
	3	-	-	-	-	-
Brake Type	Mount Type	Coaster and Special disc brake mount for SM-RTC60	V-BRAKE	INTER-M	Coaster brake	CENTER LOCK disc brake
	Recommended Model	-	-	BR-C6000 BR-C3010 BR-C3000	-	-
Speeds		8	5	5	5	5
Gear ratio	Total	307%	263%	263%	263%	263%
	1	0.527	1	1	1	1
	2	0.644	1.277	1.277	1.277	1.277
	3	0.748	1.622	1.622	1.622	1.622
	4	0.851	2.07	2.07	2.07	2.07
	5	1	2.63	2.63	2.63	2.63
	6	1.223	-	-	-	-
	7	1.419	-	-	-	-
	8	1.615	-	-	-	-
	9	-	-	-	-	-
	10	-	-	-	-	-
11	-	-	-	-	-	
Shifting Structure		DI2	DI2	DI2	DI2	DI2
Silent clutch		X	X	X	X	X
Gear change support mechanism		X	X	X	X	X
Shifting POWER MODULATOR		X	X	X	X	X
Driving efficiency		High	High	High	High	High
w/ Left hand dust cap		-	X	-	-	-
O.L.D. (mm)		135	135	135	135	135
Spoke size		#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14
Spoke hole	28H	-	-	-	-	-
	32H	X	-	-	X	X
	36H	X	X	X	X	X
	Others	-	-	-	-	-
Axle length (mm)	182	-	-	-	-	-
	184	-	-	-	-	-
	187	X	X	X	X	X
	193	-	-	-	-	-
	Others	-	-	-	-	-
Flange distance (mm)		58.3	58.3	58.3	58.3	57.3
Flange diameter (mm)		105.2	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2
Offset (mm)		2.7	3.1	3.1	3.7	3.4
P.C.D Left / Right. (mm)		92.6	92.6	92.6	92.6	92.6
Hub shell	material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	finish	Painted	Painted	Painted	Painted	Painted
Average Weight		2,080 g	1,670 g	1,670 g	1,970 g	1,670 g
Note						

Motor Unit

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

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Shifting/Brake Lever

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA
Model no.		ST-R9150-R	ST-R9150-L	ST-R9160-R	ST-R9160-L	ST-R8050-R	ST-R8050-L
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shifting lever specifications	Front speeds	-	2	SYNCHRONIZED SHIFT	SYNCHRONIZED SHIFT	-	2
	Rear speeds	11	-	Outward (default)	Inward (default)	11	-
	Remote switch	X	X	-	-	X	X
Brake lever specifications	Reach adjust	X	X	X	X	X	X
	Clamp band (mm)	23.8 / 24.2	23.8 / 24.2	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	23.8 / 24.2	23.8 / 24.2
	SLR-EV	X	X	X	X	X	X
Bracket	Material	CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Electric button	Material	GFRP	GFRP	CFRP	CFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Lever	Material	CFRP	CFRP	CFRP	CFRP	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Anodized	Anodized
Master unit		-	-	-	-	-	-
Firmware update by E-TUBE PROJECT		X	X	X	X	X	X
E-TUBE port (pcs)		2	2	1	1	2	2
E-TUBE connector (pcs)		0	0	0	0	0	0
Port for remote sprinter shifter (pcs)		1	1	0	0	1	1
Average weight		230 g/pair	230 g/pair	127 g/pair	127 g/pair	295 g/pair	295 g/pair
Note		-	-	-	-	-	-

Series		ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		ST-R8060-R	ST-R8060-L	ST-6870	ST-6871
Lever type		TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER
Shifting lever specifications	Front speeds	SYNCHRONIZED SHIFT	SYNCHRONIZED SHIFT	2	2
	Rear speeds	Outward (default)	Inward (default)	11	11
	Remote switch	-	-	-	-
Brake lever specifications	Reach adjust	X	X	X	X
	Clamp band (mm)	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	23.8 / 24.2	INNER DIA. 19.0 - 22.5
	SLR-EV	X	X	X	X
Bracket	Material	GFRP	GFRP	GFRP	CFRP
	Finish	-	-	-	-
Electric button	Material	CFRP	CFRP	GFRP	GFRP
	Finish	-	-	-	-
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Anodized
Master unit		-	-	-	-
Firmware update by E-TUBE PROJECT		X	X	X	X
E-TUBE port (pcs)		1	1	4	0
E-TUBE connector (pcs)		0	0	0	2
Port for remote sprinter shifter (pcs)		0	0	2	0
Average weight		138 g/pair	138 g/pair	303.2 g/pair	148 g/pair
Note		-	-	-	-

Shifting/Brake Lever (Hydraulic disc brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	
Model no.		ST-R9170-R	ST-R9170-L	ST-R9180-R	ST-R9180-L	ST-R8070-R	ST-R8070-L	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever specifications	Front speeds	-	2	-	2	-	2	
	Rear speeds	11	-	11	-	11	-	
	Remote switch	X	X	-	-	X	X	
	Master unit	-	-	-	-	-	-	
	Firmware update by E-TUBE PROJECT	X	X	X	X	X	X	
	Compatible rear derailleur type	Road 11speed	Road 11speed	Road 11speed	Road 11speed	Road 11speed	Road 11speed	
	Shifting lever position adjust	-	-	-	-	-	-	
	Multiple input	2 step	-	-	-	-	-	-
		Hold	X	X	X	X	X	X
Suspension switch	-	-	-	-	-	-		
Brake lever specifications	Lever size (Finger)	-	-	-	-	-	-	
	Brake hose (Kit)	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SS	SM-BH90-JK-SS	SM-BH90-JK-SSR	SM-BH90-JK-SSR	
	Hose joint	Straight	Straight	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
	Recommended brake caliper	BR-R9170	BR-R9170	BR-R9170	BR-R9170	BR-R8070	BR-R8070	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
		Reach adjust	Toolless	-	-	-	-	-
	Tool	X	X	X	X	X	X	
	Funnel bleeding	X	X	X	X	X	X	
Free stroke adjust	X	X	-	-	X	X		
SERVOWAVE	-	-	-	-	-	-		
Clamp band	Open clamp	-	-	-	-	-	-	
	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	
Bracket	Material	CFRP	CFRP	Aluminum	Aluminum	CFRP	CFRP	
	Finish	-	-	-	-	-	-	
Electric button	Material	-	-	CFRP	CFRP	-	-	
	Finish	-	-	-	-	-	-	
Shifter Lever body	Main	CFRP	CFRP	-	-	GFRP	GFRP	
	Release	-	-	-	-	-	-	
Lever	Material	Carbon	Carbon	CFRP	CFRP	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Master cylinder	Material	CFRP	CFRP	-	-	CFRP	CFRP	
	Finish	-	-	-	-	-	-	
E-TUBE connector (pcs)		0	0	0	0	0	0	
E-TUBE port (pcs)		2	2	1	1	2	2	
Port for remote sprinter shifter (pcs)		0	0	0	0	0	0	
Average weight		160 g	160 g	99 g	99 g	180 g	180 g	
Note								

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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	EW-SD50	-	EW-SD50
Master unit	-	-	-	-	-
Firmware update by E-TUBE PROJECT	X	X	X	-	X
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					

ARCHIVE

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
Pulley cage		SS	SS	GS	SS	GS	SS
Rear speeds		11	11	11	11	11	10
Top-Normal spring type	SHADOW RD	X	X	X	-	-	-
	SHADOW RD+	-	-	-	-	-	-
	Double servo	-	-	-	X	X	X
Max front difference		16T	16T	16T	16T	16T	16T
Total capacity		33T	33T	37T	33T	37T	33T
Max. low sprocket		30T	30T	34T	28T	32T	28T
Min. low sprocket		25T	25T	28T	23T	28T	23T
Max. top sprocket		14T	14T	12T	14T	12T	12T
Min. top sprocket		11T	11T	11T	11T	11T	11T
Mount	Riveted adapter available	-	-	-	-	-	-
	Direct attachment	X	X*	X*	X	X	X
Fluoroc coated link bushing		4	4	4	4	4	4
11T pulley		X	X	X	X	X	X
Sealed bearing guide pulley		X	X	X	X	X	-
Sealed bearing tension pulley		X	X	X	X	X	X
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Plate body	Material	CFRP	GFRP	GFRP	CFRP	CFRP	CFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted	Painted	Painted
Inner link	Material	CFRP	GFRP	GFRP	Steel	Steel	Steel
	Finish	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
Master unit		-	-	-	-	-	-
Firmware update by E-TUBE PROJECT		X	X	X	X	X	X
E-TUBE port (pcs)		1	1	1	1	1	1
E-TUBE connector (pcs)		0	0	0	0	0	0
Average Weight		197 g	240 g	247 g	257 g	268 g	270 g
Note		w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available			

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

Rear Derailleur

Series		SHIMANO ULTEGRA RX
Model no.		RD-RX805-GS
Pulley cage		GS
Rear speeds		11
Top-Normal spring type	SHADOW RD	-
	SHADOW RD+	X
	Double servo	-
Max front difference		16T
Total capacity		39T
Max. low sprocket		34T
Min. low sprocket		28T
Max. top sprocket		11T
Min. top sprocket		11T
Mount	Riveted adapter available	-
	Direct attachment	X*
Fluoric coated link bushing		4
11T pulley		11T
Sealed bearing guide pulley		X
Sealed bearing tension pulley		X
Bracket body	Material	Aluminum
	Finish	Painted
Plate body	Material	Aluminum
	Finish	Painted
Outer link	Material	Aluminum
	Finish	Painted
Inner link	Material	GFRP
	Finish	-
Outer plate	Material	Aluminum
	Finish	Painted
Inner plate	Material	Aluminum
	Finish	Painted
Master unit		-
Firmware update by E-TUBE PROJECT		X
E-TUBE port (pcs)		1
E-TUBE connector (pcs)		0
Average Weight		280 g
Note		* w/o bracket spec available

Front Derailleur

Series		DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		FD-R9150	FD-R8050	FD-6870-F	FD-6770-F
Color	1	Series color	Series Color	Series color	Series color
	2	-	-	-	-
Speeds	Front	2	2	2	2
	Rear	11	11	11	10
Compatible 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	-	-	-	-
	Down Swing	X	X	X	X
Mount	Clamp Band1	-	-	-	-
	Clamp Band2	-	-	-	-
	Clamp Band3	-	-	-	-
	Brazed-On	X	X	X	X
Chainline (mm)		43.5	43.5	43.5	43.5
Chain stay angle		61-66°	61-66°	61-66°	61-66°
Top gear teeth		50-55T	46-53T	46-53T	50-56T
Total capacity		16T	16T	16T	16T
Link bushings		4	2	4	4
Front clamp band	Material	-	-	-	-
	Finish	-	-	-	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted
Outer link	Material	CFRP	CFRP	CFRP	Aluminum
	Finish	Painted	Painted	Painted	Painted
Inner link	Material	Titanium	Steel	Steel	Steel
	Finish	-	Plated	Plated	Plated
Chain guide	Material	Aluminum	Steel	Steel	Steel
	Finish	Nickel plated	Chrome plated	Chrome plated	Plated
Master unit		-	-	-	-
Firmware update by E-TUBE PROJECT		X	X	X	X
E-TUBE port (pcs)		1	1	1	1
E-TUBE connector (pcs)		0	0	0	0
Average weight (pc) (Band type: L size, direct type w/ bolt)		104 g	132 g	138.5 g	160 g
Note					

Front Derailleur (Adapter)

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

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- WU
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Electric Wire

Series	SHIMANO	SHIMANO
Model no.	EW-SD50	EW-SD50-I
Type	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 length 150-1600 mm* * 1600 mm is for E-BIKE usage only	Cable length 150-1600 mm* * 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		

Wireless Unit

Series		SHIMANO	SHIMANO
Model no.		EW-WU111	EW-WU101
Wireless system		ANT private* Bluetooth®LE	ANT private* Bluetooth®LE
Master unit		-	-
Firmware update by E-TUBE PROJECT		X	X
E-TUBE port (pcs)		2	2
E-TUBE connector (pcs)		0	0
Compatible system		Bluetooth®LE corresponding master unit	Bluetooth®LE corresponding master unit
Function**	Gear position	X	X
	D12 Battery level	X	X
	Adjust mode display	X	X
	Suspension mode	X	X
	Shift mode	X	X
Average 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.

ARCHIVE

- SW
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Junction [A]

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-RS910	SM-EW90-A	SM-EW90-B
Type	Built-in type	External type	External type
Position	In side of frame or handle	Under stem	Under stem
Wireless system	-	-	-
Compatible system	E-TUBE	E-TUBE	E-TUBE
Compatible electric wire	EW-SD50	EW-SD50	EW-SD50
Master unit	-	-	-
Firmware update by E-TUBE PROJECT	X	X	X
E-TUBE port (QTY)	2	3	5
E-TUBE connector (QTY)	0	0	0
Connector for remote sprinter shifter (QTY)	0	0	0
Port for remote sprinter shifter (QTY)	0	0	0
Charging port (QTY)	1	1	1
Function	Gear position	X	X
	D12 Battery level	X	X
	Adjust mode display	X	X
	E-TUBE connection	X	X
Average weight	11 g	10 g	13 g
Note			

Junction [B]

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-JC200	EW-JC130-SS	EW-JC130-SM	EW-JC130-MM	SM-JC41	SM-JC40
Type	2 ports junction	Y-split routing-SS	Y-split routing-SM	Y-split routing-MM	Junction [B]	Junction [B]
Master unit	-	-	-	-	-	-
Firmware 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)

Battery

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	BT-DN110-A	BT-DN110	SM-BTR1
Type	Built-in battery	Built-in battery	External
Chemistry	Li-Ion	Li-Ion	Li-Ion
Rated voltage (V)	7.4	7.4	7.4
Rated capacity (Ah)	0.5	0.5	0.5
Rated capacity (Wh)	3.7	3.7	3.7
Compatible charger	SM-BCR2	SM-BCR2	SM-BCR1
Master unit	X	X	-
Firmware update by E-TUBE PROJECT	X	X	-
E-TUBE port (pcs)	1	1	-
E-TUBE connector (pcs)	0	0	0
Average weight	50 g	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 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	X	X	X
Firmware update by E-TUBE PROJECT	X	X	X
E-TUBE port (pcs)	1	1	1
E-TUBE connector (pcs)	0	0	0
Note	-	-	-

Battery Case

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

Battery Charger

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

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	SHIMANO
Model no.	SM-PCE02	SM-PCE1
USB port (pcs)	Micro: 1	Mini: 1
E-TUBE port (pcs)	0	0
E-TUBE connector (pcs)	0	0
E-TUBE PC link port (pcs)	1	2
LED	Green: 1	Green: 1
Note		

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Cycle Computer

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.	SC-E8000	SC-E7000	SC-E6100	SC-E6010	SC-E6000	EW-EN100	
Color	1	Standard	Standard	Standard	Black	Gray	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Mount position	Center on handlebar	-	-	X	X	X	-
	Right on handlebar	X	X	-	-	-	-
	Others	-	-	-	-	-	X
Master unit	-	-	-	-	-	-	
Wireless system	ANT private/ Bluetooth®LE	ANT private/ Bluetooth®LE	ANT private/ Bluetooth®LE	-	-	ANT private/ Bluetooth®LE	
Firmware update by E-TUBE PROJECT	X	X	X	X	X	X	
E-TUBE port (pcs)	4	4	3	3	3	2	
E-TUBE connector (pcs)	0	0	0	0	0	0	
Back Light	X	X	X	X	X	-	
LCD size (inch)	1.6	1.39	2.7	2.7	1.85	-	
Beep	X	X	X	X	X	-	
Display Detachable	-	-	X	X	X	-	
Display Change Button	X	X	X	-	-	-	
Assist mode change (w/o switch unit)	-	X	X	-	-	X	
Reset button	-	-	-	-	-	-	
Inside battery	X	X	X	X	X	-	
System on/off button	-	-	X	X	-	-	
Light on/off button	-	-	X	X	-	X	
Assist on/off button	-	-	-	-	-	-	
Auto Start & Auto Stop	-	-	-	-	-	-	
Contents of Display	Clock	X	X	X	X	X	-
	Assist mode display	X	X	X	X	X	X
	Assist on/off	X	X	X	X	X	-
	Walk mode display	X	X	X	X	X	X
	Battery charge level	X	X	X	X	X	X
	Light condition	-	-	X	X	X	-
	Current Speed	X	X	X	X	X	-
	Gear Position Display	X	X	X	* X (8/11-speed)	* X (8/11-speed)	-
	Start mode	-	X	X	X	-	-
	Automatic shift mode	-	X	X	X	X	-
	Maximum speed	** X	** X	** X	** X	** X	-
	Average speed	** X	** X	** X	** X	** X	-
	Trip distance	X	X	X	X	X	-
	Trip time	** X	** X	** X	** X	** X	-
	Odometer	X	X	X	X	X	-
	Estimated range	X	X	X	X	X	-
	Range overview	-	-	X	X	X	-
	Assist power indicator	X	-	X	X	-	-
	Error Message	X	X	X	X	X	X
	Cadence (rpm)	X	** X	** X	*** X	-	-
	Shifting advice	-	-	X	-	-	-
	Maintenance alert	-	X	X	-	-	-
	Bluetooth®LE connection status	-	X	X	-	-	-
Setting menu	Trip Distance reset	X	X	X	X	X	-
	Odometer reset	-	-	-	-	-	-
	Setting clear	-	-	X	X	X	-
	Clock adjustment	X	X	X	X	X	-
	Start mode	-	X	X	X	X	-
	Shifting advise	-	-	X	-	-	-
	Back light on/off	-	-	X	X	X	-
	Light on/off	X	X	-	-	-	-
	Back light brightness	X	-	X	X	-	-
	Beep on/off	X	X	X	X	X	-
	Unit (km/mile)	X	X	X	X	X	-
	Font color	-	X	X	X	-	-
	Adjusting for shift	* X	* X	* X	* X	* X	* X
	Adjusting for auto shift timing	-	* X	* X	* X	* X	-
	RD Protection Reset	* X	* X	X	* X	-	* X
	Bluetooth®LE pairing	X	*** X	*** X	-	-	** X
Bluetooth®LE/ANT connection status	X	-	-	-	-	-	
Language	English	X	X	X	X	X	-
	German	X	X	X	X	X	-
	Dutch	X	X	X	X	X	-
	French	X	X	X	X	X	-
	Spanish	X	X	X	X	X	-
	Italian	X	X	X	X	X	-
Average weight	40.2 g	32.0 g	110 g	110.6 g	102.6 g	5.7 g	
Note	2 Spec of clamp band diameter: ø31.8 and ø35.0 * In case of SEIS ** Option by E-TUBE PROJECT	* In case of SEIS ** Option by E-TUBE PROJECT *** Pairing is available when changing assist mode and shifting MU/RD	* In case of SEIS ** Option by E-TUBE PROJECT *** Pairing is available when changing assist mode and shifting MU/RD	* 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	* Set by SW operation in case of SEIS ** Pairing is available when changing assist mode and shifting MU/RD	

Switch Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SW-E8000-L	SW-E7000-L	SW-E7000-R	SW-E6010-L	SW-E6010-R	SW-E6000
Switch Type		FIREBOLT	-	-	-	-	-
Color	1	Standard	Standard	Standard	Standard	Standard	Gray
	2	-	-	-	-	-	Black
	3	-	-	-	-	-	-
Usage		For assist	For assist	For SEIS shift	For assist	For SEIS shift	* For assist or SEIS shift
Right SW		-	-	X	-	X	X
Left SW		X	X	-	X	-	X
Button numbers (pcs)		2	2	2	3	3	3
Master unit		-	-	-	-	-	-
Firmware update by E-TUBE PROJECT		X	X	X	X	X	X
E-TUBE port (pcs)		1	0	0	0	0	0
E-TUBE connector (pcs)		0	1	1	1	1	1
System On-Off		-	-	-	-	-	-
Assist Mode Change		X	X	-	X	-	X
Display change		-	-	-	X	X	* X
Automatic/Manual Change		-	-	X	X	X	* X
Light On-Off		* -	* -	-	* -	-	* X
Multiple input	2 step	-	-	-	-	-	-
	Hold	-	* X	** X	-	** X	-
Average Weight		93.2 g	** 23.9 g	** 23.9 g	31.3 g	31.3 g	25.5 g
Note		* By Setting Menu	* Set by E-TUBE PROJECT ** Cable length 700 mm spec. Cable length: 400 mm, 300mm, 700 mm	* Available for RD ** Cable length 700 mm spec. Cable length: 400 mm, 300mm, 700 mm	* By Setting Menu	** Available for RD	* Set by E-TUBE PROJECT

SC

SW

DU

SMDU

SMDU

RT

SMDU

FC

CRE

CD

BT

BM

EC

EWEX

SMDU

Drive Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-E8000	DU-E8080	DU-E7000	DU-E6100	DU-E6110	DU-E6180
Color	1	Black	Black	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Compatible Brake type		Disc brake, V-BRAKE	Disc brake	Disc brake, V-BRAKE	V-Brake, Roller brake, Disc brake	Coaster brake	V-BRAKE, Roller brake, Disc brake
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position		Mid ship	Mid ship	Mid ship	Mid ship	Mid ship	Mid ship
Compatible Wheel Size (mm)		*1,300-3,000	*1,300-3,000	1,300-3,000	1,300-3,000	1,300-3,000	1,300-3,000
Maximum Rated Power (Watt)		250	250	250	250	250	250
Maximum torque (Nm)		70	70	60	60	60	60
Rated Voltage		DC 36V	DC 36V	DC 36V	DC 36V	DC 36V	DC 36V
DI2 compatible	IHG	-	-	-	X	X	X
	RD	*X	*X	X	X	-	X
Maximum support bike speed	24 km/h	-	X	*X	-	-	X
	25 km/h	*X	-	*X	*X	*X	-
	20 mph	*X	-	*X	*X	*X	-
	Other	-	-	-	-	-	-
	Adjustment	-	-	-	*X	*X	*X
Riding Characteristics	Dynamic	*X	-	*X	-	-	-
	Explorer	*X	-	*X	-	-	-
	Customize	*X	-	*X	-	-	-
	Sportive/ Light off-road	-	-	-	*X	*X	*X
	Comfort	-	X	-	*X	*X	*X
Assist mode	BOOST	X	-	X	-	-	-
	HIGH	-	X	-	X	X	X
	TRAIL	X	-	X	-	-	-
	NORMAL	-	X	-	X	X	X
	ECO	X	X	X	X	X	X
Power supply for front light		DC 6V	DC 6V	DC 12V	DC 12V	DC 12V	DC 12V
Power supply for rear light		DC 6V	DC 6V	DC 12V	DC 12V	DC 12V	DC 12V
Maximum current supply front and rear light total (A)		2	2	2	2	2	2
Safe way home function		X	X	X	X	X	X
Communication		E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE
Master unit		X	X	X	X	X	X
Firmware update by E-TUBE PROJECT		X	X	X	X	X	X
E-TUBE port (pcs)		2	2	2	2	2	2
E-TUBE connector (pcs)		0	0	0	0	0	0
Port for Light (pcs)		0	0	0	0	0	0
Terminal for Light (pcs)		1	1	1	1	1	1
Port for Speed Sensor (pcs)		1	1	1	1	1	1
Chain case compatible		-	-	-	X	X	X
Chain Device compatible		X	X	X	-	-	-
Torque sensor		X	X	X	X	X	X
Crank arm position sensor		X	X	X	X	X	X
Bike speed sensor		** X	** X	** X	** X	* X	** X
Cadence sensor		X	X	X	X	X	X
Walk assist function	On/Off	X	-	*X	*X	*X	-
	Standard	X	-	-	-	-	-
	Intelligent	*** X	-	**X	***X	***X	-
	Quick	X	-	X	X	X	-
Automatic shift	IHG 11s	-	-	-	-	-	-
	IHG 8s	-	-	-	X	X	X
	IHG 7s	-	-	-	-	-	-
	IHG 5E	-	-	-	X	X	X
	RD	-	-	-	-	-	-
SYMPHOMATIC	IHG	-	-	-	X	X	X
	RD	-	-	-	-	-	-
Electronic shift by DU control		-	-	-	-	-	-
Compatible BB type		24 mm Axle Serration	24 mm Axle Serration	24 mm Axle Serration	24mm Axle Serration	24mm Axle Serration	24mm Axle Serration
DU fixing bolt (pcs)		-	-	-	-	-	-
Average weight		2.88 kg	2.89 kg	2.88 kg	2.76 kg		
Note		* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** By using RD-M9050/RD-M8050	* Set by E-TUBE PROJECT ** By using SM-DUE11	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** By using RD-M9050/RD-M8050	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** Only in combination with DI2	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** Only in combination with DI2	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11

Drive Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-E6002	DU-E6012	DU-E6001	DU-E6010	DU-E6050	DU-E5000
Color	1	Black	Black	Black	Black	Black	Standard
	2	Gray	-	Gray	-	Gray	-
	3	-	-	-	-	-	-
Compatible Brake type		V-BRAKE, Roller brake, Disc brake	Coaster brake	V-BRAKE, Roller brake, Disc brake	Coaster brake	V-BRAKE, Roller brake, Disc brake	V-Brake, Roller brake, Disc brake, Coaster brake
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position		Mid ship	Mid ship	Mid ship	Mid ship	Mid ship	Mid ship
Compatible Wheel Size (mm)		*1,300-2,400	*1,300-2,400	*1,300-2,400	*1,300-2,400	*1,300-2,400	1,300-3,000
Maximum Rated Power (Watt)		250	250	250	250	250	250
Maximum torque (Nm)		50	50	50	50	50	40
Rated Voltage		DC 36V	DC 36V	DC 36V	DC 36V	DC 36V	DC 36V
DI2 compatible	IHG	*X	*X	*X	*X	*X	X
	RD	*X	-	-	-	-	X
Maximum support bike speed	24 km/h	-	-	-	-	-	*X
	25 km/h	*X	*X	X	X	-	*X
	20 mph	*X	*X	-	-	X	*X
	Other	-	-	-	-	-	-
	Adjustment	-	-	-	-	-	*X
Riding Characteristics	Dynamic	-	-	-	-	-	-
	Explorer	-	-	-	-	-	-
	Customize	-	-	-	-	-	-
	Sportive/ Light off-road	*X	*X	*X	-	-	-
	Comfort	*X	*X	*X	X	X	X
Assist mode	BOOST	-	-	-	-	-	-
	HIGH	X	X	X	X	X	X
	TRAIL	-	-	-	-	-	-
	NORMAL	X	X	X	X	X	X
	ECO	X	X	X	X	X	X
Power supply for front light		DC 6V	DC 6V	**** DC 6V	**** DC 6V	**** DC 6V	DC 12V
Power supply for rear light		DC 6V	DC 6V	**** DC 6V	**** DC 6V	**** DC 6V	DC 12V
Maximum current supply front and rear light total (A)		2	2	1	1	1	2
Safe way home function		X	X	X	X	X	X
Communication		E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE
Master unit		X	X	X	X	X	X
Firmware update by E-TUBE PROJECT		X	X	X	X	X	X
E-TUBE port (pcs)		2	2	2	2	2	1
E-TUBE connector (pcs)		0	0	0	0	0	0
Port for Light (pcs)		0	0	2	2	2	0
Terminal for Light (pcs)		1	1	0	0	0	1
Port for Speed Sensor (pcs)		1	1	1	1	1	1
Chain case compatible		X	X	X	X	X	X
Chain Device compatible		-	-	-	-	-	-
Torque sensor		X	X	X	X	X	X
Crank arm position sensor		X	X	X	X	X	-
Bike speed sensor		** X	** X	X	X	X	** X
Cadence sensor		X	X	X	X	X	-
Walk assist function	On/Off	*X	*X	-	-	-	*X
	Standard	X	X	X	X	X	-
	Intelligent	-	-	-	-	-	***X
	Quick	X	X	-	-	-	X
Automatic shift	IHG 11s	-	-	-	-	-	-
	IHG 8s	X	X	X	X	X	X
	IHG 7s	-	-	-	-	-	-
	IHG 5E	-	-	-	-	-	X
	RD	-	-	-	-	-	-
SYMPHOMATIC	IHG	X	X	X	X	X	X
	RD	-	-	-	-	-	-
Electronic shift by DU control		-	-	-	-	-	X
Compatible BB type		Square type	Square type	Square type	Square type	Square type	Square type
DU fixing bolt (pcs)		-	-	-	-	-	-
Average weight		3.1 kg	3.05 kg	3.1 kg	3.05 kg	3.1 kg	2.7 kg
Note		* 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	* Set by E-TUBE PROJECT **** By using SM-DUE01 Speed Limit: 20 mph	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** Only in combination with DI2

Drive Unit Cover

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-DUE80-A	SM-DUE80-B	SM-DUE70-A	SM-DUE70-B	SM-DUE70-C	SM-DUE61-T
Color	1	Gray	Gray	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Cover	Right	X	X	X	X	-	X
	Left	X	X	X	X	X	X
Available DU angle		0-60 degree	0-60 degree	0-60 degree	0-60 degree	0-60 degree	0-60 degree
Average weight				-	-	-	-
Note		Standard cover	Mount bolt cover	-	-	-	-

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-DUE61-TC	SM-DUE61-C	SM-DUE61-CC	SM-DUE60	SM-DUE60-45	SM-DUE60-A
Color	1	Standard	Black	Black	Gray	Gray	Gray
	2	-	-	-	Black	Black	Black
	3	-	-	-	-	-	-
Cover	Right	X	X	X	X	X	X
	Left	X	X	X	-	-	-
Available DU angle		0-60 degree	0-60 degree	0-60 degree	0 degree	45 degree	0 degree
Average weight		-	-	-	-	-	-
Note		-	-	-	-	-	For internal cable routing

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-DUE60-45A	SM-DUE50-T	SM-DUE50-TC	SM-DUE50-C	SM-DUE50-CC
Color	1	Gray	Standard	Standard	Black	Black
	2	Black	-	-	-	-
	3	-	-	-	-	-
Cover	Right	X	X	-	X	-
	Left	-	X	X	X	X
Available DU angle		45 degrees	0-60 degree	0-60 degree	0-60 degree	0-60 degree
Average weight		-	-	-	-	-
Note		For internal cable routing	-	-	-	-

Speed Sensor Unit

Series		SHIMANO	SHIMANO
Model no.		SM-DUE11	SM-DUE10
Brake Spec	Disc	X	X
	Rim	-	X
Color	1	Standard	Standard
	2	-	-
	3	-	-
Cable Length(mm)	340	-	X
	540	-	X
	760	X	-
	1400	-	X
Note		-	-

Disc Brake Rotor

Series		SHIMANO	SHIMANO	SHIMANO	
Model no.		RT-EM900	RT-EM800	RT-EM600	
CENTER LOCK		X	X	X	
6-bolt (P.C.D. 44 mm)		-	-	-	
ICE TECHNOLOGIES		X	X	-	
ICE TECHNOLOGIES FREEZA		X	-	-	
Outside diameter	203 mm	X* (NEW)	-	X*	
	180 mm	X*	X*	X*	
	160 mm	X*	X*	X*	
	140 mm	-	-	-	
Alloy lock ring		X	X	-	
Adapter	Material	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	
Rotor	Material	Stainless steel + Aluminum + Stainless steel	Stainless steel + Aluminum + Stainless steel	Stainless steel	
	Finish	Polished	Polished	Polished	
Pad compatibility	Metal	X	X	X	
	Resin	X	X	X	
Lock ring	Internal type	Material	Aluminum	Aluminum	Steel
		Finish	Anodized	Anodized	Plated
	External type	Material	Aluminum	Aluminum	Steel
		Finish	Anodized	Anodized	Plated
	Internal/External type	Material	-	-	-
		Finish	-	-	-
Average weight (w/o lock ring)		182 g (203 mm) 142 g (180 mm) 127 g (160 mm)	150 g (180 mm) 129 g (160 mm)	TBD	
Note		* For rear only with magnet bracket	* For rear only with magnet bracket	* For rear only with magnet bracket For narrow type brake pad only	

Adapter for Light

Series		SHIMANO
Model no.		SM-DUE01
Color	1	Standard
	2	-
	3	-
Type		For DC light
Cables for lights	With	*X
	Without	X
Front light		X
Rear light		X
Water proof connector		DU side
Wire holder		-
Note		* Cable length: 1600 mm

Crankarm

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-E8050	FC-E8000	FC-E6100	FC-E6010	FC-E6000	FC-E5000
Color	1	Standard	Standard	Silver	Black	Gray	Silver
	2	-	-	Black	Gray	Black	-
	3	-	-	-	-	-	-
Crank arm type	HOLLOWTECH	X	-	-	-	-	-
	Solid	-	X	X	X	X	X
Q factor (mm)		177 180 *	177 180 *	180	213	189.6	185
Chain case compatible		X *	X *	X	X	X	X
Crankarm length (mm)	175	X	X	X	X	X	X
	170	X *	X	X	X	X	X
	165	-	X	-	-	-	X
	Others	-	-	-	-	-	-
Crankarm	Material	Aluminum	Aluminum	Aluminium	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Anodized	Painted	Painted	TBD
BB Type		24 mm Axle Serration	24 mm Axle Serration	24 mm Axle Serration	Square type	Square type	Square type
Average weight		-	-	-	-	-	TBD
Note		* In case with DU-E6100 / E6110 / E7000	* In case with DU-E6100 / E6110 / E7000	-	-	-	-

Series		SHIMANO	DEORE XT
Model no.		FC-E5010	FC-M8050
Color	1	Standard	Series color
	2	-	-
	3	-	-
Crank arm type	HOLLOWTECH	-	X
	Solid	X	-
Q factor (mm)		185	177 180 *
Chain case compatible		X	X *
Crankarm length (mm)	175	X	X
	170	X	X
	165	X	X
	Others	-	-
Crankarm	Material	Aluminum	Aluminum
	Finish	TBD	Anodized
BB Type		Square type	24 mm Axle Serration
Average weight		TBD	-
Note		-	* In case with DU-E6100 / E6110 / E7000

Chainring

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-CRE80-12-B	SM-CRE80-B	SM-CRE80	SM-CRE70-B	SM-CRE61	SM-CRE60
Color	1	Black	Black	Black	Black	Dark Gray	Black / Silver
	2	-	-	-	-	Silver (w/o CG only) *	Black / Gray
	3	-	-	-	-	Black (w/o CG only) *	Black / Gray (double, single chain guard type only)
Gear speed		1	1	1	1	1	1
Rear speed	12-speed	X	-	-	-	-	-
	11-speed	-	*X	*X	X	X	X
	10-speed	-	*X	*X	X	X	X
	9-speed	-	-	-	X	X	X
	Single	-	-	-	-	X	X
DYNAMIC CHAIN ENGAGEMENT Plus		X	X	X	-	-	-
Chainring teeth	44T	-	-	X	-	X	X
	38T	-	X	X	-	X	X
	36T	-	-	-	-	-	-
	34T	X	X	X	X	-	-
	Others	-	-	-	-	-	-
Chain guard type	Double	-	-	X	-	X	X
	Single	-	-	-	-	X	X
	w/o CG	X	X	X	X	X	X
Chainring fixing lock nut		Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit
Arm cover outer diameter (mm)		-	-	-	-	95 (w/o CG only)	95.5 (w/o CG only)
Chain device compatible		X	X	X	X	-	-
Chain case compatible		-	-	-	-	X	X (single, w/o CG only)
Chainline (mm)	53	X	X	-	X	-	-
	50	-	-	X	-	-	-
	46.5	-	-	-	-	X	X
Belt line (mm)	43	-	-	-	-	-	-
P.C.D. (mm)		104	104	104	104	104	-
Chainring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Painted	Painted	Painted
Spider arm	Material	Aluminum	Aluminum	Aluminum	Steel	-	-
	Finish	Anodized	Anodized	Anodized	Painted	-	-
Chainring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-
	Finish	SP Black	SP Black	SP Black	SP Black	-	-
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	-
Average weight		-	-	-	-	-	-
Note		Compatible chain CN-M9100	* E-BIKE RD system compatible chain	* E-BIKE RD system compatible chain	Compatible Chain CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11 CN-E6090-10 CN-E6070-9	* Color of arm cover	-

Chainring

Series		SHIMANO
Model no.		SM-CRE50
Color	1	Dark Gray
	2	-
	3	-
Gear speed		1
Rear speed	12-speed	-
	11-speed	X
	10-speed	X
	9-speed	X
	Single	X
DYNAMIC CHAIN ENGAGEMENT Plus		-
Chainring teeth	44T	X
	38T	X
	36T	-
	34T	-
	Others	-
Chain guard type	Double	X
	Single	X
	w/o CG	X
Chainring fixing lock nut		Included in drive unit
Arm cover outer diameter (mm)		95 (w/o CG only)
Chain device compatible		-
Chain case compatible		X
Chainline (mm)	53	-
	50	-
	46.5	X
Belt line (mm)	43	-
P.C.D. (mm)		104
Chainring	Material	Steel
	Finish	Painted
Spider arm	Material	-
	Finish	-
Chainring fixing bolt	Material	Stainless steel
	Finish	-
Gear arms		4 arm
Average weight		-
Note		-

Chain Device

Series		SHIMANO	SHIMANO
Model no.		SM-CDE80	SM-CDE70
Color	1	Standard	Standard
	2	-	-
	3	-	-
Chainline (mm)	53	X (w/ plate type) X (w/o plate type)	X
	50	- (w/ plate type) X (w/o plate type)	-
Chain compatibility	11-Speed	X	X
	10-Speed	X	X
	9-speed	-	X
Top Gear Teeth	38T	X	X
	34T	X	X
Assumed Rear Sprocket Teeth	11-36	X	X
	11-40	X	X
	11-42	X	X
	11-46	X	X
Direct Mount to Drive Unit		X (w/ plate type) - (w/o plate type)	X
Compatible Drive Unit		DU-E8000	DU-E7000 DU-E8000
Rear suspension stroke (mm)		0-170	0-170
Back plate	Material	Aluminum (w/ plate type) - (w/o plate type)	Steel
	Finish	Anodized (w/ plate type) - (w/o plate type)	Painted
Chain guide	Material	Resin	Resin
	Finish	-	-
Note		w/ plate, w/o plate type are available	w/ plate

SC

SW

DU

SMDU

SMDU

RT

SMDU

FC

CRE

CD

BT

BM

EC

EWEX

SMDU



Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-E8010	BT-E8014	BT-E8020	BT-E6000	BT-E6001	BT-E6010
Color	1	Black	Standard	Black	Black	Black	Black
	2	-	-	-	Gray	Gray	Gray
	3	-	-	-	-	-	-
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Down tube	Down tube	Down tube	Rear carrier	Rear carrier	Down tube
Rated voltage (V)		36	36	36	36	36	36
Rated capacity (Ah)		14	11.6	14	11.6	14	11.6
Rated capacity (Wh)		504	418	504	418	504	418
Cyclelife span for 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 charge (hour)	SOC = 100%	*5	*4	*5	*4	*5	*4
	SOC = 80%	*2.5	*2	*2.5	*2	*2.5	*2
	SOC = 50%	*2	*1.5	*2	*1.5	*2	*1.5
Charge level display		X	X	X	X	X	X
Error signal		X	X	X	X	X	X
Charging port		X	X	X	-	-	-
Tail light / Reflector integration		-	-	-	-	-	-
System on/off switch		X	X	X	X	X	X
Compatible battery mount		BM-E8010	BM-E8010	BM-E8020	BM-E6000	BM-E6000	BM-E6000
Compatible charger		EC-E6000 EC-E6000-3 (for Japan) EC-E6002	EC-E6000 EC-E6000-3 (for Japan) EC-E6002	EC-E6000 EC-E6002	EC-E6000 EC-E6002	EC-E6000 EC-E6002	EC-E6000 EC-E6000-3 (for Japan) EC-E6002
Average weight		2.6 kg	2.55 kg	3.05 kg	2.58 kg	2.65 kg	2.65 kg
Note		*By EC-E6000 EC-E6000-3 for Japan BT-E8010 for Japan (13 Ah, 468 Wh)	*By EC-E6000 EC-E6000-3 for Japan BT-E8014 for Japan (10.9 Ah, 393 Wh)	*By EC-E6000	*By EC-E6000	*By EC-E6000	*By EC-E6000 EC-E6000-3 for Japan BT-E6010 for Japan (10.9 Ah, 393 Wh, Black only)

Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BM-E8010	BM-E8020	BM-E6000-A	BM-E6000-B	BM-E6010
Color	1	Black	Black	Black	Black	Black
	2	-	-	Gray	Gray	-
	3	-	-	-	-	-
Position		Down tube	Down tube	Rear carrier	Rear carrier	Down tube
Charging port		-	-	* X	* X	* X
Key hole		X	X	X	X	X
System on/off switch		-	-	-	-	-
Battery cable		X	X	X	X	X
Battery cable length	250	X	X	-	-	X
	300	X	-	-	-	X
	400	-	X	-	-	-
	600	X	-	-	-	X
	900	-	-	-	-	-
	920	-	-	X	X	-
	1000	-	-	-	-	-
1020	-	-	X	X	-	
Compatible battery		BT-E8010	BT-E8020	BT-E6000/BT-E6001	BT-E6000/BT-E6001	BT-E6010
Note			-	*By EC-E6000	*By EC-E6000	*By EC-E6000

ARCHIVE

- SC
- SW
- DU
- SMDU
- SMDU
- RT
- SMDU
- FC
- CRE
- CD
- BT
- BM
- EC
- EWEX
- SMDU

Battery Charger

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EC-E6000-1	EC-E6000-2	EC-E6000-3	EC-E6000-4	EC-E6000-6	EC-E6000-7
Color	1	Standard	Standard	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Plug type		Type C	Type A	Type A	Type O	Type BF	Type C
Typical example country / Region		Europe	USA / Canada	Japan	Australia / New Zealand	UK	Korea
Compatible battery		BT-E6000 BT-E6001 BT-E6010 BT-E8014 BT-E8010 BT-E8020	BT-E6000 BT-E6001 BT-E6010 BT-E8014 BT-E8010 BT-E8020	BT-E6000 BT-E6001 BT-E6010 BT-E8014 BT-E8010 BT-E8020	BT-E6000 BT-E6001 BT-E6010 BT-E8014 BT-E8010 BT-E8020	BT-E6000 BT-E6001 BT-E6010 BT-E8014 BT-E8010 BT-E8020	BT-E6000 BT-E6001 BT-E6010 BT-E8014 BT-E8010 BT-E8020
Compatible battery mount		BM-E6000 BM-E6010 BM-E8010 BM-E8020	BM-E6000 BM-E6010 BM-E8010 BM-E8020	BM-E6000 BM-E6010 BM-E8010 BM-E8020	BM-E6000 BM-E6010 BM-E8010 BM-E8020	BM-E6000 BM-E6010 BM-E8010 BM-E8020	BM-E6000 BM-E6010 BM-E8010 BM-E8020
Compatible voltage		AC 100 V-240 V 50-60 Hz	AC 100 V-240 V 50-60 Hz	AC 100 V 50-60 Hz	AC 100 V-240 V 50-60 Hz	AC 100 V-240 V 50-60Hz	AC 100 V-240 V 50-60 Hz
CE standard		X	X	X	X	X	X
UL standard		X	X	X	X	X	X
Korea standard		-	-	-	-	-	X
Japan standard		-	-	X	-	-	-
Time to full charge (hour)		*4 / **5	*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 Level Display		-	-	-	-	-	-
Plug in charging type		X	X	X	X	X	X
Charging temperature		0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C
Storage temperature		-20-60 °C	-20-60 °C	-20-60 °C	-20-60 °C	-20-60 °C	-20-60 °C
Error signal		X	X	X	X	X	X
Adapter for battery connector		-.***	-.***	-.***	-.***	-.***	-.***
Compatible AC power cable		-	-	-	-	-	-
Built in AC cable		X	X	X	X	X	X
Built in AC cable length (m)		2	2	1	1	1	1
Average weight							
Note		* In case of 418Wh battery ** In case of 504Wh battery *** SM-BTE60 is required for charging to BT-E60**	* In case of 418Wh battery ** In case of 504Wh battery *** SM-BTE60 is required for charging to BT-E60**	* In case of 418Wh battery ** In case of 504Wh battery *** SM-BTE60 is required for charging to BT-E60**	* In case of 418Wh battery ** In case of 504Wh battery *** SM-BTE60 is required for charging to BT-E60**	* In case of 418Wh battery ** In case of 504Wh battery *** SM-BTE60 is required for charging to BT-E60**	* In case of 418Wh battery ** In case of 504Wh battery *** SM-BTE60 is required for charging to BT-E60**

Battery Charger

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EC-E6000-9	EC-E6000-10	EC-E6000-12	EC-E6002
Color	1	Standard	Standard	Standard	Standard
	2	-	-	-	-
	3	-	-	-	-
Plug type		Type B3L	Type O	Type C	-
Typical example country / Region		South-Africa	Argentina	Brazil	Worldwide
Compatible battery		BT-E6000 BT-E6001 BT-E6010 BT-E8014 BT-E8010 BT-E8020	BT-E6000 BT-E6001 BT-E6010 BT-E8014 BT-E8010 BT-E8020	BT-E6000 BT-E6001 BT-E6010 BT-E8014 BT-E8010 BT-E8020	BT-E6000 BT-E6001 BT-E6010 BT-E8014 BT-E8010 BT-E8020
Compatible battery mount		BM-E6000 BM-E6010 BM-E8010 BM-E8020	BM-E6000 BM-E6010 BM-E8010 BM-E8020	BM-E6000 BM-E6010 BM-E8010 BM-E8020	BM-E6000 BM-E6010 BM-E8010 BM-E8020
Compatible voltage		AC 100 V-240 V 50-60 Hz	AC 100 V-240 V 50-60 Hz	AC 100 V-240 V 50-60 Hz	AC 100 V-240 V 50-60 Hz
CE standard		X	X	X	X
UL standard		X	X	X	X
Korea standard		X	X	X	X
Japan standard		-	-	-	X
Time to full charge (hour)		*4 / **5	*4 / **5	*4 / **5	*6.5/**7.5
Time to 80% charge (hour)		*2 / **2.5	*2 / **2.5	*2 / **2.5	*3.5/**4.0
Charging Level Display		-	-	-	-
Plug in charging type		X	X	X	X
Charging temperature		0-40 °C	0-40 °C	0-40 °C	0-40 °C
Storage temperature		-20-60 °C	-20-60 °C	-20-60 °C	-20-60 °C
Error signal		X	X	X	X
Adapter for battery connector		._***	._***	._***	._***
Compatible AC power cable		-	-	-	SM-BCC1
Built in AC cable		X	X	X	-
Built in AC cable length (m)		1	1	1	-
Average weight		-	-	-	-
Note		* In case of 418Wh battery ** In case of 504Wh battery *** SM-BTE60 is required for charging to BT-E60**	* In case of 418Wh battery ** In case of 504Wh battery *** SM-BTE60 is required for charging to BT-E60**	* In case of 418Wh battery ** In case of 504Wh battery *** SM-BTE60 is required for charging to BT-E60**	* In case of 418Wh battery ** In case of 504Wh battery *** SM-BTE60 is required for charging to BT-E60**

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)

Chain Case Fixing Bolt

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

SHIMANO