

ARCHIVE

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SHIMANO

2017-2018

SPEC. HANDBOOK

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

REMARKS Mark X : available / Mark - : not available

All information in this spec. handbook is confidential and has been given to you for the sole use of your product development staff.
This information should not be photo copied.

Word definitions

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 free
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
FC	Crankset	WH	Wheel
FD	Front derailleur		
FH	FREEHUB		
GM	Grommet		
HB	Front hub		

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Shifting Lever

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		SL-M9000-R	SL-M9000-L	SL-M9000-IR	SL-M9000-IL	SL-M980-A-R	SL-M980-A-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	-	11	-	10	-
Compatible rear derailleur type		MTB 11-speed RD	-	MTB 11-speed RD	-	MTB 10-speed RD	-
Mount Type	Clamp band	X	X	-	-	X	X
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	X	X	-	-
Shifting lever position adjust		-	-	X	X	-	-
Shifting lever rotation adjust		-	-	X	X	-	-
Shifting lever cable adjust		X	X	X	X	X (CFRP)	X (CFRP)
2 / 3 mode converter		-	-	-	-	-	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	Anodized	Anodized	Anodized	Anodized	Anodized
Clamp bolt	Material	Stainless steel	Stainless steel	-	-	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Main lever body	Material	CFRP	CFRP	CFRP	CFRP	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Anodized	Anodized
Release lever body	Material	CFRP	CFRP	CFRP	CFRP	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	Polymer-coated	Polymer-coated	SIL-TEC	SIL-TEC
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (pc)		200 g/pair	200 g/pair	205 g/pair	205 g/pair	99 g	104 g
Note		**pull:single, push:double		**pull:single, push:double			

Shifting Lever

Series		XTR	XTR	SAINT	SAINT	DEORE XT	DEORE XT
Model no.		SL-M980-B-IR	SL-M980-B-IL	SL-M820	SL-M820-B-I	SL-M8000-R	SL-M8000-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		10	-	10	10	11	-
Compatible rear derailleur type		MTB 10-speed RD	-	MTB 10-speed RD	MTB 10-speed RD	MTB 11-speed RD	-
Mount Type	Clamp band	-	-	X	-	X	X
	I-SPEC B	X	X	-	X**	-	-
	I-SPEC II	-	-	-	-	-	-
Shifting lever position adjust		X	X	-	X	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X (CFRP)	X (CFRP)	X (CFRP)	X (CFRP)	X	X
2 / 3 mode converter		-	X	-	-	-	-
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	4	4	2	2
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	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	Anodized	Anodized	Painted	Painted	Painted	Painted
Release lever body	Material	CFRP & Steel	CFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	SIL-TEC	SIL-TEC	-	-	OPTISLICK	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (pc)		103 g	98 g	123 g	114 g	127 g	117 g
Note				*pull:single, push:double	*pull:single, push:double **I-spec B-type	*pull:single, push:double	

SL

SMSL

BL

BL

ST

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RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

Shifting Lever

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		SL-M8000-IR	SL-M8000-IL	SL-M8000-B-IR	SL-M8000-B-IL	SL-M780-B-IR	SL-M780-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	-	11	-	10	-
Compatible rear derailleur type		MTB 11-speed RD	-	MTB 11-speed RD	-	MTB 10-speed RD	-
Mount Type	Clamp band	-	-	-	-	-	-
	I-SPEC B	-	-	X	X	X	X
	I-SPEC II	X	X	-	-	-	-
Shifting lever position adjust		X	X	X	X	X	X
Shifting lever rotation adjust		X	X	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
2 / 3 mode converter		-	-	-	-	-	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		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	-	-	-	-	-	-
	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	OPTISLICK	OPTISLICK	-	-
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (pc)		120 g	110 g	117 g	107 g	114 g	106 g
Note		*pull:single, push:double		*pull:single, push:double			

Shifting Lever

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX	SLX
Model no.		SL-M780-R	SL-M780-L	SL-M770-A-R	SL-M770-A-L	SL-M7000-11-R	SL-M7000-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	-	2/3
Rear speeds		10	-	9	-	11	-
Compatible rear derailleur type		MTB 10-speed RD	-	MTB 9-speed RD	-	MTB 11-speed	-
Mount Type	Clamp band	X	X	X	X	X	X
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
2 / 3 mode converter		-	X	-	-	-	-
Max. multiple shifts (Main lever/ rear)		4	-	4	-	3	-
Release function	MULTI RELEASE	X	-	-	-	-	-
	INSTANT RELEASE	X	X	X	X	-	-
	2WAY-RELEASE	X	X	X	X	X	X
OPTICAL GEAR DISPLAY	with	-	-	-	-	-	-
	with (removable)	X	X	X	X	X	X
	without	X	X	X	X	X	X
Multi-Bearing construction		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	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	GFRP & Steel	GFRP & Steel
	Finish	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	Resin	Resin	GFRP	GFRP
	Finish	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)		128 g	121 g	255 g/pair	255 g/pair	135 g	130 g
Note							

SL

SMSL

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RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

Shifting Lever

Series		SLX	SLX	SLX	SLX	SLX	SLX
Model no.		SL-M7000-11-IR	SL-M7000-IL	SL-M7000-11-B-IR	SL-M7000-B-IL	SL-M7000-10-R	SL-M7000-10-IR
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		11	-	11	-	10	10
Compatible rear derailleur type		MTB 11-speed	-	MTB 11-speed	-	MTB 10-speed	MTB 10-speed
Mount Type	Clamp band	-	-	-	-	X	-
	I-SPEC B	-	-	X	X	-	-
	I-SPEC II	X	X	-	-	-	X
Shifting lever position adjust		X	X	X	X	-	X
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
2 / 3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		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	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (pc)		120 g	115 g	127 g	120 g	135 g	120 g
Note							

Shifting Lever

Series		SLX	SLX	SLX	SLX	SLX	ZEE
Model no.		SL-M7000-10-B-IR	SL-M670-B-IR	SL-M670-B-IL	SL-M670-R	SL-M670-L	SL-M640
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	-	10	-	10
Compatible rear derailleur type		MTB 10-speed	MTB 10-speed RD	-	MTB 10-speed RD	-	MTB 10-speed RD
Mount Type	Clamp band	-	-	-	X	X	X
	I-SPEC B	X	X	X	-	-	-
	I-SPEC II	-	-	-	-	-	-
Shifting lever position adjust		X	X	X	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
2 / 3 mode converter		-	-	X	-	X	-
Max. multiple shifts (Main lever/ rear)		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	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	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	-	-	-	-	-
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (pc)		127 g	121 g	116 g	265 g/pair	265 g/pair	127 g
Note							

SL

SMSL

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BL

ST

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RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

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FH

FH

WH

CI-DECK

Shifting Lever

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.		SL-M6000-R	SL-M6000-L	SL-M6000-IR	SL-M6000-IL	SL-M610-R	SL-M610-L
Color	1	Series black	Series black	Series black	Series black	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		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	X
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	X	X	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
2 / 3 mode converter		-	-	-	-	-	X
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	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	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)		-	-	-	-	-	-
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	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
2 / 3 mode converter		-	X	-	-	-	-
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-SP40	OT-SP40
Average weight (pc)		-	-	-	-	-	-
Note							

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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	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
2 / 3 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-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
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	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
2 / 3 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-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SIS40
Average weight (pc)		-	-	-	-	-	-
Note							OGD frame :Chrome plating Compatible with CI-DECK

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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	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
2 / 3 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	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		-	-	X	-	-	X
2 / 3 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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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	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	-	-	-	-	-
2 / 3 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	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	-	-	X	-
2 / 3 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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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	-	-
Shifting lever position adjust		-	-
Shifting lever rotation adjust		-	-
Shifting lever cable adjust		-	-
2 / 3 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

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

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Brake Lever (Hydraulic disc brake)

Series		XTR	XTR	SAINT	DEORE XT	SLX	ZEE
Model no.		BL-M9000	BL-M9020	BL-M820-B	BL-M8000	BL-M7000	BL-M640-B
Brake 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-SBM	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBS
Hose joint		Straight	Straight	Straight	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
SERVO WAVE		-	X	X	X	X	X
Reach adjust	Toolless	-	X	X	X	X	-
	Tool	X	-	-	-	-	X
Free stroke adjust		-	X	X	X	-	-
Compatible SL mount	Clamp band	X	X	X	X	X	X
	I-SPEC B	-	-	X*	-	-	-
	I-SPEC II	X	X	-	X	X	X
Clamp band	Open clamp	X	X	X	X	X	X
Recommended brake caliper		BR-M9000	BR-M9020	BR-M820	BR-M8000	BR-M7000	BR-M640
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	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Anodized	Painted	-	-	-
Brake lever	Material	CFRP	Aluminum+CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Anodized	Anodized
Master cylinder	Material	Magnesium	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)		316 g	360 g	103.2 g**	402.5 g	418.8 g	116.7 g**
Note				*I-SPEC B-type **single item weight			* I-SPEC B-type ** single item weight

Brake Lever (Hydraulic disc brake)

Series		DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BL-M6000	BL-MT500	BL-M425	BL-M396	BL-M365	BL-M315
Brake type		Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (Finger)		2	2	2	2	3	3
Color	1	Series Black	Series Black	Black	Black	Black	Black
	2	Black (SHIMANO logo)**	-	White	White	White	-
	3	-	-	-	-	-	-
Brake hose (Kit)		SM-BH90-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
J-Kit spec (for OEM)		X	X	X	X	X	X
SERVOWAVE		X	X	-	-	-	-
Reach adjust	Toolless	-	-	-	-	-	-
	Tool	X	X	X	X	X	X
Free stroke adjust		-	-	-	-	-	-
Compatible SL mount	Clamp band	X	X	X	X	X	X
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	X	X	-	-	-	-
Clamp band	Open clamp	X	X	-	-	-	-
Recommended brake caliper		BR-M6000	BR-MT500	BR-M395	BR-M395	BR-M365	BR-M315
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	Steel	Steel	Steel	Steel
	Finish	-	-	Plated	Plated	Plated	Plated
Brake lever	Material	Aluminum	Aluminum	Aluminum	Steel	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Painted	Anodized	Painted
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/lockring, w/o adapter, w/2bolts, w/ Resin pad)		-	-	-	-	-	-
Note		** M6000 kit only					

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-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40		
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-M4050	BR-M4050	BR-M3050	BR-M3050	BR-M315	BR-M315	
	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
- SMSL
- 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-SP40		
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-M315	
	Oil		SHIMANO Mineral	
	Reach adjust	Toolless		-
		Tool		X
	Funnel bleeding		X	
	Free stroke adjust		-	
	SERVO WAVE		-	
	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		ALIVIO	ALIVIO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-M4000-R	ST-M4000-L	ST-EF65-9R2	ST-EF65-9R4	ST-EF65-8R2	ST-EF65-8R4	
Color	1	Series color	Series color	Black	Black	Black	Black	
	2	-	-	Silver	Silver	Silver	Silver	
Shifting lever	Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
	Front speeds		-	3	-	-	-	
	Rear speeds		9	-	9	9	8	
	Compatible RD Type		MTB 9-speed RD	-	MTB 9-speed RD	MTB 9-speed RD	MTB 8-speed RD	MTB 8-speed RD
	SL position adjust		-	-	-	-	-	
	SL cable adjust		X	X	X	X	X	
	2/3 mode converter		-	-	-	-	-	
	Max. multiple shifts (Main lever / rear)		3	-	3	3	3	
	Release function	MULTI RELEASE	-	-	-	-	-	
		INSTANT RELEASE	-	-	-	-	-	
		2WAY-RELEASE	X	X	-	-	-	
	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	Stainless steel	Stainless steel	Steel	Steel	Steel	
Finish		Standard	Standard	Standard	Standard	Standard		
Recommended shifting lever outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40		
Brake lever	Compatible brake type	V-BRAKE	X	X	X	X with switch	X	
		Mechanical disc brake (MTB)	X	X	X	X with switch	X	
		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)	-	-	-	SM-PM50	-	
	Clamp band	Open clamp band	-	-	-	-	-	
	Internal bumper stop		X	X	X	X	X	
	Lever size (Finger)		2	2	2	4	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	Aluminum	Aluminum	Aluminum		
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized		
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum		
	Finish	Painted	Painted	Painted	Painted	Painted		
Clamp bolt	Material	Stainless steel	Stainless steel	Steel	Steel	Steel		
	Finish	-	-	Zinc plated	Zinc plated	Zinc plated		
Average weight		-	-	-	-	-		
Note					*V-BRAKE and Mechanical Disc Brake must be used with POWER MODULATOR. *INTER-M Compatible	*V-BRAKE and Mechanical Disc Brake must be used with POWER MODULATOR. *INTER-M Compatible		

- SL
- SMSL
- 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

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-EF65-7R2	ST-EF65-7R4	ST-EF65-L2	ST-EF65-L4	ST-M310-8R2	ST-M310-L2	
Color	1	Black	Black	Black	Black	Black	Black	
	2	Silver	Silver	Silver	Silver	Silver	Silver	
Shifting lever	Shifter type		EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
	Front speeds		-	-	3	3	-	3
	Rear speeds		7	7	-	-	8	-
	Compatible RD Type		MTB 7-speed RD	MTB 7-speed RD	-	-	MTB 8-speed RD	-
	SL position adjust		-	-	-	-	-	-
	SL cable adjust		X	X	X	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 & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
	Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
	Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
Finish		Standard	Standard	Standard	Standard	Standard	Standard	
Recommended shifting lever outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	
Brake lever	Compatible brake type	V-BRAKE	X	X with switch	X	X with switch	X	X
		Mechanical disc brake (MTB)	X	X with switch	X	X with switch	X	X
		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		X	X	X	X	-	-
	Lever size (Finger)		2	4	2	4	2	2
	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	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight		-	-	-	-	-	-	
Note		*V-BRAKE and Mechanical Disc Brake must be used with POWER MODULATOR. *INTER-M Compatible		*V-BRAKE and Mechanical Disc Brake must be used with POWER MODULATOR. *INTER-M Compatible				

Shifting/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-EF510-9R2A	ST-EF510-8R2A	ST-EF510-8R4A	ST-EF510-7R2A	ST-EF510-7R4A	ST-EF510-L2A	
Color	1	Black	Black	Black	Black	Black	Black	
	2	Silver	Silver	Silver	Silver	Silver	Silver	
Shifting lever	Shifter type		EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
	Front speeds		-	-	-	-	-	3
	Rear speeds		9	8	8	7	7	-
	Compatible RD Type		MTB 9-speed RD	MTB 8-speed RD	MTB 8-speed RD	MTB 7-speed RD	MTB 7-speed RD	-
	SL position adjust		-	-	-	-	-	-
	SL cable adjust		-	-	-	-	-	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	X
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction		-	-	-	-	-	-
	Main lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
	Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
	Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
Finish		Standard	Standard	Standard	Standard	Standard	Standard	
Recommended shifting lever outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	
Brake lever	Compatible brake type	V-BRAKE	X	X	X with switch*	X	X with switch*	X
		Mechanical disc brake (MTB)	X	X	X with switch*	X	X with switch*	X
		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	4	2	4	2
	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	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Plated	Plated	Plated	
Average weight		-	-	-	-	-	-	
Note		* POWER MODULATOR must be used for front brake			* POWER MODULATOR must be used for front brake			

- SL
- SMSL
- 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

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-EF510-L4A	ST-EF500-8R2A	ST-EF500-8R4A	ST-EF500-7R2A	ST-EF500-7R4A	ST-EF500-L2A	
Color	1	Black	Black	Black	Black	Black	Black	
	2	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		-	8	8	7	7	-
	Compatible RD Type		-	MTB 8-speed RD	MTB 8-speed RD	MTB 7-speed RD	MTB 7-speed RD	-
	SL position adjust		-	-	-	-	-	-
	SL cable adjust		X	-	-	-	-	X
	2/3 mode converter		-	-	-	-	-	-
	Max. multiple shifts (Main lever / rear)		-	3	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 & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
	Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
	Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
Finish		Standard	Standard	Standard	Standard	Standard	Standard	
Recommended shifting lever outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	
Brake lever	Compatible brake type	V-BRAKE	X with switch*	X	X with switch*	X	X with switch*	X
		Mechanical disc brake (MTB)	X with switch*	X	X with switch*	X	X with switch*	X
		Mechanical disc brake (Road)	-	-	-	-	-	-
		Caliper (SLR-EV)	-	-	-	-	-	-
		Caliper (NEW SUPER SLR)	-	-	-	-	-	-
		Caliper (SUPER SLR)	X with switch	-	X with switch	-	X with switch	-
		Cantilever brake	X with switch	-	X with switch	-	X with switch	-
	Roller brake	X with switch	-	X with switch	-	X with switch	-	
	Recommended POWER MODULATOR	V-BRAKE	SM-PM40	-	SM-PM40	-	SM-PM40	-
		Mechanical disc brake (MTB)	SM-PM50	-	SM-PM50	-	SM-PM50	-
	Clamp band	Open clamp band	-	-	-	-	-	-
	Internal bumper stop		-	-	-	-	-	-
	Lever size (Finger)		4	2	4	2	4	2
	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	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Plated	Plated	Plated	
Average weight		-	-	-	-	-	-	
Note		* POWER MODULATOR must be used for front brake		* POWER MODULATOR must be used for front brake		* POWER MODULATOR must be used for front brake		

Shifting/Brake Lever

Series		SHIMANO	TOURNEY TX	TOURNEY TX	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-EF500-L4A	ST-TX800-8R	ST-TX800-L	ST-EF41-7R	ST-EF41-6R	ST-EF41-L	
Color	1	Black	Black	Black	Black	Black	Black	
	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	6	-
	Compatible RD Type		-	MTB 8-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	X
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction		-	-	-	-	-	-
	Main lever body	Material	Resin & Steel	Resin	Resin	Resin	Resin	Resin
		Finish	-	-	-	-	-	-
	Release lever body	Material	Resin & Steel	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-SP40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	
Brake lever	Compatible brake type	V-BRAKE	X with switch*	X	X	X	X	X
		Mechanical disc brake (MTB)	X with switch*	X	X	X	X	X
		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)	SM-PM50	-	-	-	-	-
	Clamp band	Open clamp band	-	-	-	-	-	
	Internal bumper stop		-	-	-	-	-	-
	Lever size (Finger)		4	2	2	2	2	2
	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	Aluminum	Steel/Resin	Steel/Resin	Steel/Resin	Steel/Resin	Steel/Resin	
	Finish	Painted	-	-	-	-	-	
Bracket	Bracket	Material	Aluminum	Steel	Steel	Steel	Steel	
		Finish	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight		-	-	-	-	-	-	
Note		* POWER MODULATOR must be used for front brake						

- SL
- SMSL
- 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	SAINT	DEORE XT
Model no.		RD-M9000-SGS	RD-M9000-GS	RD-M986-GS	RD-M986-SGS	RD-M820-SS	RD-M8000-SGS
Pulley cage		SGS	GS	GS	SGS	SS	SGS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		11	11	10	10	10	11
Compatible chain		HG-X11	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X11
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*	X*	X*	X*
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Mode converter		-	-	-	-	X	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		18T	10T	18T	18T	Single	18T
Total capacity		45T	37T	35T	41T	25T	47T
Low sprocket	Max.	40T(3x11-speed) 42T(2x11-speed) 46T(1x11-speed)	42T(2x11-speed) 46T(1x11-speed)	36T	36T	28/36T	40T(3x11-speed) 42T(2x11-speed) 46T(1x11-speed)
	Min.	40T	40T	32T	32T	23T	40T
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	-	Sealed Bearing
	T pulley bearing	Sealed 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	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
B-Axle	Hollow axle	X	X	X	X	X	X
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Stainless steel
B-Axle 2	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
	Hollow axle	-	-	X	X	X	X
	Material	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Bracket body	Finish	Anodized	Anodized	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Plate body	Material	CFRP	CFRP	CFRP	CFRP	Aluminum	GFRP
	Finish	Painted	Painted	Painted	Painted	Painted	-
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Outer plate	Material	CFRP	CFRP	CFRP	CFRP	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	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	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Plated	Plated
Average weight (pc)		224 g	221 g	211 g	213 g	280 g (w/o mode converter)	275 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 **For 3X11-speed, Max 40T for 2X11-speed, Max 42T for 1X11-speed, Max 46T

Rear Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		RD-M8000-GS	RD-M781-GS	RD-M781-SGS	RD-M786-GS	RD-M786-SGS	RD-M772-GS
Pulley cage		GS	GS	SGS	GS	SGS	GS
Color	1	Series color	Silver	Silver	Silver	Silver	Series color
	2	-	Black	Black	Black	Black	-
Rear speeds		11	10	10	10	10	9
Compatible chain		HG-X11	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		10T	18T	22T	18T	22T	22T
Total capacity		39T	35T	43T	35T	43T	35T
Low sprocket	Max.	42T(2x11-speed) 46T(1x11-speed)	36T	36T	36T	36T	36T
	Min.	40T	32T	32T	32T	32T	32T
Top sprocket	Max.	11T	11T	11T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluor coated link bushings		4	4	4	4	4	4
Pulley	G pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	-
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	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	Aluminum	Aluminum	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	GFRP	Aluminum	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	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing Bolt	Material	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)		271 g	234 g	238 g	262 g	266 g	227 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	

Rear Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	SLX	SLX	SLX
Model no.		RD-M772-SGS	RD-M771-GS	RD-M771-SGS	RD-M7000-11-GS	RD-M7000-10-SGS	RD-M670-GS
Pulley cage		SGS	GS	SGS	GS	SGS	GS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		9	9	9	11	10	10
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG-X11	HG-X	HG-X 10-speed
Top-Normal spring type	SHIMANO SHADOW RD	X	-	-	-	-	X
	SHIMANO SHADOW RD+	-	-	-	X	X	-
	Double servo	-	X	X	-	-	-
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		22T	22T	22T	10T	22T	18T
Total capacity		45T	35T	45T	41T	43T	35T
Low sprocket	Max.	36T	34T	34T	42T(2x11-speed) 46T(1x11-speed)	36T	36T
	Min.	32T	32T	32T	40T	32T	32T
Top sprocket	Max.	11T	11T	11T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluor coated link bushings		4	4	4	4	2	3
Pulley	G pulley 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	Steel	-	-	Steel	Steel	Steel
	Finish	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	-
	Material	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	-	-	-	-	-	-
Plate body	Material	Aluminum	Aluminum	Aluminum	GFRP	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	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Steel	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)		229 g	228 g	238 g	323 g	313 g	278 g
Note					*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available

Rear Derailleur

Series		SLX	ZEE	DEORE	DEORE	DEORE	DEORE
Model no.		RD-M670-SGS	RD-M640-SS	RD-M6000-GS	RD-M6000-SGS	RD-M610-GS	RD-M610-SGS
Pulley cage		SGS	SS	GS	SGS	GS	SGS
Color	1	Series color	Series color	Series Black	Series Black	Black	Black
	2	-	-	-	-	Silver	Silver
Rear speeds		10	10	10	10	10	10
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10speed	HG-X 10speed	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	Single	10T	22T	18T	22T
Total capacity		43T	25T	41T	43T	35T	43T
Low sprocket	Max.	36T	36T(Freeride spec) 28T(DH spec)	42T	36T	36T	36T
	Min.	32T	23T	42T	32T	32T	32T
Top sprocket	Max.	11T	12T	11T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluor coated link bushings		3	3	4	3	3	3
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley 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	Aluminum	GFRP	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	Steel	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Aluminum	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing Bolt	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
	Finish	-	-	Plated	Plated	Plated	Plated
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average weight (pc)		281 g	275 g	-	-	-	-
Note		*w/o bracket spec available	*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

Rear Derailleur

Series		DEORE	DEORE	ALIVIO	ACERA	ALTUS	ALTUS
Model no.		RD-M592-SGS	RD-M591-SGS	RD-M4000	RD-M3000	RD-M2000	RD-M370-SGS
Pulley cage		SGS	SGS	SGS	SGS	SGS	SGS
Color	1	Series color	Silver	Series color	Series color	Series color	Black
	2	-	Black	-	-	-	Silver
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	-
	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	-	X	-	-	-	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	X
Max. front difference		22T	22T	22T	22T	22T	22T
Total capacity		45T	45T	45T	45T	45T	45T
Low sprocket	Max.	36T	34T	36T	36T	36T	34T
	Min.	32T	28T	32T	32T	32T	28T
Top sprocket	Max.	12T	12T	12T	12T	12T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluoroc coated link bushings		3	3	2	1	-	-
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	11T	11T	11T	11T	11T	11/11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel
	Sunken type pulley bolt	X	X	X	X	X	X (Guide pulley) - (Tension pulley)
Bracket	Material	Steel	-	Steel	Steel	Steel	-
	Finish	Painted	-	Painted	Painted	Painted	-
B-Axle	Hollow axle	X	-	X	X	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
B-Axle 2	Material	Stainless steel	-	Stainless steel	Stainless steel	Stainless steel	-
	Finish	-	-	-	-	-	-
	Hollow axle	-	-	X	-	-	-
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	Zinc plated
Plate body	Material	Aluminum	Aluminum	PA-GF	PA-GF	PA-GF	Resin
	Finish	Painted	Painted	Painted	Painted	-	Painted
Outer link	Material	Aluminum	Aluminum	CFRP	PA-GF	PA-GF	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Zinc plated	Painted
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing Bolt	Material	Steel	Steel	Stainless steel	Stainless steel	Stainless steel	Steel
	Finish	Plated	Plated	-	-	-	Zinc plated
Stroke Adjusting Screw	Material	Steel	Steel	Stainless steel	Steel	Steel	Steel
	Finish	Plated	Plated	-	Zinc plated	Zinc plated	Zinc plated
Average weight (pc)		-	-	-	-	-	-
Note				* w/o bracket spec available	* w/o bracket spec available		

Rear Derailleur

Series	ACERA	ALTUS	TOURNEY TX	TOURNEY	TOURNEY	TOURNEY TZ
Model no.	RD-M360-SGS	RD-M310-Smart	RD-TX800	RD-TY500-SGS	RD-TY300-SGS	RD-TZ500-GS
Pulley cage	SGS	Smart	SGS	SGS	SGS	GS
Color	1	Black	Black	Series color	Series color	Series color
	2	Silver	Silver	-	-	-
Rear speeds	8/7	8/7	8/7	7/6	7/6	6
Compatible chain	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 6-speed
Top-Normal spring type	SHIMANO SHADOW RD	-	-	-	-	-
	SHIMANO SHADOW RD+	-	-	-	-	-
	Double servo	X	X	X	X	X
Mount	Direct attachment (Conventional)	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	20T	20T	20T	20T	20T	20T
Total capacity	43T	43T	43T	43T	43T	34T
Low sprocket	Max.	34T	34T	34T	34T	28T
	Min.	28T	28T	28T	28T	28T
Top sprocket	Max.	14T	14T	14T	14T	14T
	Min.	11T	11T	11T	11T	11T
Fluoroc coated link bushings	1	-	-	-	-	-
Pulley	G pulley bearing	-	-	-	-	-
	T pulley bearing	-	-	-	-	-
	Teeth	13/13T	13/15T	13/13T	13/13T	13/13T
	Bolts material	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley bolt	-	-	-	-	-
Bracket	Material	-	-	-	-	-
	Finish	-	-	-	-	-
B-Axle	Hollow axle	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
	Finish	-	-	-	Zinc plated	Zinc plated
B-Axle 2	Hollow axle	-	-	-	-	-
	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Resin	Resin	Resin
	Finish	Painted	Painted	Painted	-	-
P-Axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Plate body	Material	Resin	Resin	Resin	Resin	Resin
	Finish	-(Black) Painted (Silver)	-	-	-	-
Outer link	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Resin	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	-	Zinc plated
Outer plate	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Painted	Painted
Cable fixing Bolt	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (pc)	-	-	-	-	-	-
Note				with wheel type cable guide		

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

Front Derailleur

Series		XTR	XTR	XTR	XTR	XTR	XTR	
Model no.		FD-M9000-H	FD-M9000-L	FD-M9000-D	FD-M9000-E	FD-M9020-H	FD-M9020-L	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	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	-	-	-	-	-	-	
	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	
Chain line (mm)		50	50	50	50	48.8	48.8	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		40T	40T	40T	40T	34-38T	34-38T	
Total capacity		18T	18T	18T	18T	10T	10T	
Applicable Top-Mid tooth difference		10T	10T	10T	10T	-	-	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	X	-	-	X	X	
Link bushings		6	6	6	6	6	6	
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	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	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Black	Black	Black	Black	Black	Black	
Average weight (pc) (Band type: L size, direct type w/ bolt)		130.0 g	112.0 g	117.0 g	102 g	129 g	111 g	
Note								

- SL
- SMSL
- 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		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		FD-M9020-D	FD-M9020-E	FD-M9025-H	FD-M9025-L	FD-M9025-D	FD-M9025-E
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	-	X	-
	SIDE SWING	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	-	-	-
	Direct Mount	X	-	-	-	X	-
Cable route type	Dual-Pull	-	-	X	-	X	-
	Top-Pull exclusive	-	-	X	-	X	-
	Down-Pull exclusive	-	-	-	X	-	X
	Front-Pull	X	X	-	-	-	-
Chain line (mm)		48.8*	48.8*	48.8	48.8	48.8*	48.8*
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth		34-38T	34-38T	34-38T	34-38T	34-38T	34-38T
Total capacity		10T	10T	10T	10T	10T	10T
Applicable Top-Mid tooth difference		-	-	-	-	-	-
Multi access cable fixing bolt		-	-	-	-	-	-
Angled stroke adjust bolt		X	X	X	X	X	X
Angled clamp band design		-	-	X	X	-	-
Link bushings		6	6	8	2	8	2
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	Steel	Aluminum	Steel
	Finish	Painted	Painted	Anodized	Painted	Anodized	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Aluminum	Aluminum	Steel	Steel	Steel	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	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	-	-	-	-
Average weight (pc) (Band type: L size, direct type w/ bolt)		116 g	102 g	147.2 g	132.9 g	141.3 g	124 g
Note		* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.			* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.

Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		FD-M8000-H	FD-M8000-L	FD-M8000-D	FD-M8000-E	FD-M8020-H	FD-M8020-L	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	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	-	-	-	-	-	-	
	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	
Chain line (mm)		50	50	50	50	48.8	48.8	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		40T	40T	40T	40T	34-38T	34-38T	
Total capacity		18T	18T	18T	18T	10T	10T	
Applicable Top-Mid tooth difference		10T	10T	10T	10T	-	-	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	X	-	-	X	X	
Link bushings		6	6	6	6	6	6	
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	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	-	-	-	-	-	-	
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)		151 g	135 g	136 g	121 g	145 g	129 g	
Note								

- SL
- SMSL
- 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-M8020-D	FD-M8020-E	FD-M8025-H	FD-M8025-L	FD-M8025-D	FD-M8025-E	
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	-	X	-	
	SIDE SWING	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	-	X	-	
	Top-Pull exclusive	-	-	X	-	X	-	
	Down-Pull exclusive	-	-	-	X	-	X	
	Front-Pull	X	X	-	-	-	-	
Chain line (mm)		48.8*	48.8*	48.8	48.8	48.8*	48.8*	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		34-38T	34-38T	34-38T	34-38T	34-38T	34-38T	
Total capacity		10T	10T	10T	10T	10T	10T	
Applicable Top-Mid tooth difference		-	-	-	-	-	-	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		-	-	X	X	-	-	
Link bushings		6	6	8	2	8	2	
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	-	-	Black	Black	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Aluminum	Aluminum	Steel	Aluminum	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	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	Black	
Stroke Adjusting Screw	Material	Steel	Steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	-	-	-	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		134 g	120 g	149 g	131 g	139 g	124 g	
Note		* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.			* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.	

Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		FD-M785	FD-M785-E2	FD-M786	FD-M786-D	FD-M770	FD-M770-E	
Color	1	Black	Black	Black	Black	Series color	Series color	
	2	-	-	Silver	Silver	-	-	
Speeds	Front	2	2	2	2	3	3	
	Rear	10	10	10	10	9	9	
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	
Action	TOP SWING	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	-	-	-	-	-	X
		Without BB Plate	-	X	-	-	-	X
	Direct Mount	-	-	-	X	-	-	
Cable route type	Dual-Pull	X	X	X	X	X	X	
	Top-Pull exclusive	-	-	X	X	-	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	-	-	-	
Chain line (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		38-44T	38-44T	38-44T	38-44T	44/48T	44T	
Total capacity		14T	14T	14T	14T	22T	22T	
Applicable Top-Mid tooth difference		-	-	-	-	12T	12T	
Multi access cable fixing bolt		X	X	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	-	X	-	X	-	
Link bushings		2	2	8	8	2	2	
Front clamp band	Material	Aluminum	-	Aluminum	-	Aluminum	-	
	Finish	Painted	-	Painted	-	Painted	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	-	Stainless steel	-	Stainless steel	-	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	Aluminum	
	Finish	-	-	-	-	-	Painted	
Outer link	Material	Steel	Steel	Aluminum	Aluminum	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing 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)		136 g	127 g	155 g	146 g	152 g	166 g	
Note		* Outer casing stopper integrated design.				* Outer casing stopper integrated design.		

- SL
- SMSL
- 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	SLX	SLX	
Model no.		FD-M771	FD-M771-D	FD-M772A	FD-M773	FD-M7000-10-H	FD-M7000-10-L	
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	10	10	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG-X	HG-X	
Action	TOP SWING	-	-	X	-	-	-	
	Down Swing	X	X	-	X	-	-	
	SIDE SWING	-	-	-	-	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)	X (w/ M size adapter)	
		34.9mm	X	-	X	X	X	X
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	-	-	-	-
	Direct Mount	-	X	-	-	-	-	
Cable route type	Dual-Pull	X	X	X (w/ M size adapter)	X (w/ M size adapter)	-	-	
	Top-Pull exclusive	-	-	X	X	-	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	-	X	X	
Chain line (mm)		50	50	50	50	50	50	
Chain stay angle		66-69	66-69	63-66	66-69	66-69	66-69	
Top gear teeth		44T	44T	44/48T	44/48T	40-42T	40-42T	
Total capacity		22T	22T	22T	22T	18T	18T	
Applicable Top-Mid tooth difference		12T	12T	12T	12T	10T	10T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	-	-	X	X	
Angled clamp band design		X	-	X	X	X	X	
Link bushings		8	8	2	7	4	4	
Front clamp band	Material	Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	-	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	-	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Aluminum	Steel	Aluminum	GFRP+STEEL	GFRP+STEEL	
	Finish	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	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	Steel	Steel	
	Finish	-	-	-	-	Black	Black	
Average weight (pc) (Band type: L size, direct type w/ bolt)		155 g	147 g	160 g	174 g	152.1 g	136.5 g	
Note						* S-size adapter is available in OTC package only.	* S-size adapter is available in OTC package only.	

Front Derailleur

Series		SLX	SLX	SLX	SLX	SLX	SLX
Model no.		FD-M7000-10-D	FD-M7000-10-E	FD-M7005-10-H	FD-M7005-10-L	FD-M7005-10-D	FD-M7005-10-E
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	10	10	10	10
Compatible chain		HG-X	HG-X	HG-X	HG-X	HG-X	HG-X
Action	TOP SWING	-	-	-	X	-	X
	Down Swing	-	-	X	-	X	-
	SIDE SWING	X	X	-	-	-	-
Mount	Clamp Band	28.6mm	-	-	-*	-*	-
		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	-	-	-
	Direct Mount	X	-	-	-	X	-
Cable route type	Dual-Pull	-	-	X	X	X	X
	Top-Pull exclusive	-	-	-	-	-	-
	Down-Pull exclusive	-	-	-	-	-	-
	Front-Pull	X	X	-	-	-	-
Chain line (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	40-42T	42-40T	42-40T	42-40T	42-40T
Total capacity		18T	18T	18T	18T	18T	18T
Applicable Top-Mid tooth difference		10T	10T	-	-	-	-
Multi access cable fixing bolt		-	-	-	-	-	-
Angled stroke adjust bolt		X	X	X	X	X	X
Angled clamp band design		-	-	X	X	-	-
Link bushings		4	4	6	6	6	6
Front clamp band	Material	-	-	Aluminum	Aluminum	-	-
	Finish	-	-	Painted	Painted	-	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	-	Stainless steel	Stainless steel	-	-
	Finish	-	-	-	-	-	-
BB plate	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer link	Material	GFRP+STEEL	GFRP+STEEL	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	-	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	-	-	-	-	-	-
Stroke Adjusting Screw	Material	Steel	Steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	-	-	-	-
Average weight (pc) (Band type: L size, direct type w/ bolt)		140.5 g	126.5 g	155.4 g	155 g	140.9 g	143 g
Note				* S-size adapter is available in OTC package only.	* S-size adapter is available in OTC package only.		

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- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Front Derailleur

Series		SLX	SLX	SLX	SLX	SLX	SLX	
Model no.		FD-M7020-11-H	FD-M7020-11-L	FD-M7020-11-D	FD-M7020-11-E	FD-M7025-11-H	FD-M7025-11-L	
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	
	Down Swing	-	-	-	-	X	-	
	SIDE SWING	X	X	X	X	-	-	
Mount	Clamp Band	28.6mm	.*	.*	-	.*	.*	
		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	-	-	
Chain line (mm)		48.8	48.8	48.8	48.8	48.8	48.8	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		34-38T	34-38T	34-38T	34-38T	34-38T	34-38T	
Total capacity		10T	10T	10T	10T	10T	10T	
Applicable Top-Mid tooth difference		-	-	-	-	-	-	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	X	-	-	X	X	
Link bushings		4	4	4	4	6	6	
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	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	GFRP+STEEL	GFRP+STEEL	GFRP+STEEL	GFRP+STEEL	Aluminum	Aluminum	
	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	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		147 g	132 g	136 g	122 g	152 g	133 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.	* S-size adapter is available in OTC package only.	

Front Derailleur

Series		SLX	SLX	SLX	SLX	SLX	SLX
Model no.		FD-M7025-11-D	FD-M7025-11-E	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	2	2	3	3	3	3
	Rear	11	11	9	9	9	9
Compatible chain		HG-X11	HG-X11	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)
		31.8mm	-	-	X (w/ M size adapter)	-	X (w/ M size adapter)
		34.9mm	-	-	X	-	X
	E-type	With BB Plate	-	-	-	X	-
		Without BB Plate	-	X	-	-	-
	Direct Mount	X	-	-	-	-	X
Cable route type	Dual-Pull	X	-	X	X	X	X
	Top-Pull exclusive	-	-	-	-	-	-
	Down-Pull exclusive	-	X	-	-	-	-
	Front-Pull	-	-	-	-	-	-
Chain line (mm)		48.8	48.8	50	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	44T	44T	44T	44T
Total capacity		10T	10T	22T	22T	22T	22T
Applicable Top-Mid tooth difference		-	-	12T	12T	12T	12T
Multi access cable fixing bolt		-	-	-	-	-	-
Angled stroke adjust bolt		X	X	X	X	X	X
Angled clamp band design		-	-	X	-	X	-
Link bushings		6	6	2	2	8	8
Front clamp band	Material	-	-	Aluminum	-	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	-	-	-	Aluminum	-	-
	Finish	-	-	-	Painted	-	-
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	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	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Average weight (pc) (Band type: L size, direct type w/ bolt)		140 g	123 g	155 g	170 g	158 g	150 g
Note				* Outer casing stopper integrated design.			

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- 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	
Chain line (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	-	-	
Chain line (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 outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.			

- SL
- SMSL
- 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	
Chain line (mm)		48.8/51.8*	48.8/51.8*	48.8	48.8	48.8	48.8	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		34-38T	34-38T	36-38T	36-38T	36-38T	36-38T	
Total capacity		10T	10T	14T	14T	14T	14T	
Applicable Top-Mid tooth difference		-	-	-	-	-	-	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled 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	-	-	-	-	-	-	
Chain line (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 outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.			

- SL
- SMSL
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
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- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-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	-	-	-	-	-	-	
Chain line (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	ACERA	
Model no.		FD-M4000-TS3	FD-M4000-TS6	FD-M4000-DS3	FD-M4000-DS6	FD-M410-E	FD-M3000-TS3	
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	8/7	9	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 8/7-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)	-	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	-	-	-	-	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	-	-	-	-	-	-	
Chain line (mm)		50	50	50	50	50	50	
Chain stay angle		63-66	66-69	63-66	66-69	63-69 *	63-66	
Top gear teeth		40T	40T	40T	40T	42T	40T	
Total capacity		18T	18T	18T	18T	20T	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	Aluminum	Aluminum	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	Aluminum	-	
	Finish	-	-	-	-	Painted	-	
Outer link	Material	Steel	Steel	Aluminum	Aluminum	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Aluminum	Aluminum	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	Stainless steel	Stainless steel	Steel	Stainless steel	
	Finish	-	-	-	-	Nickel plated	-	
Stroke Adjusting Screw	Material	Stainless steel	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						* Slits are required on the right side edge of BB shell.		

- SL
- SMSL
- 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		ACERA	ALTUS	ALTUS	ALTUS	ALTUS	ALTUS
Model no.		FD-M3000-TS6	FD-M2000-TS3	FD-M2000-TS6	FD-M2000-DS3	FD-M2000-DS6	FD-M370-3
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	-	-	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
	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	-	-	-	-	-	-
Chain line (mm)		50	50	50	50	50	50
Chain stay angle		66-69	63-66	66-69	63-66	66-69	63-66
Top gear teeth		40T	40T	40T	40T	40T	44T/48T
Total capacity		18T	18T	18T	18T	18T	22T
Applicable Top-Mid tooth difference		10T	10T	10T	10T	10T	12T
Multi access cable fixing bolt		-	-	-	-	-	-
Angled stroke adjust bolt		X	X	X	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	Steel	Steel	Steel	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	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	Zinc plated	Zinc plated	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted / zinc plated	Painted / zinc plated	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	Steel
	Finish	-	-	-	-	-	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		ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	
Model no.		FD-M370-6	FD-M371-3	FD-M371-6	FD-M313-3	FD-M313-6	FD-M310-3	
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	8/7	8/7	8/7	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-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	-	-	-	-	-	-	
Chain line (mm)		50	50	50	47.5 / 50	47.5 / 50	47.5 / 50	
Chain stay angle		66-69	63-66	66-69	63-66	66-69	63-66	
Top gear teeth		44T/48T	44T/48T	44T/48T	42/48T	42/48T	42/48T	
Total capacity		22T	22T	22T	20T	20T	20T	
Applicable Top-Mid tooth difference		12T	12T	12T	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	Steel	Aluminum	Aluminum	Aluminum	Aluminum	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	Painted	Painted	
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								

- SL
- SMSL
- 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	SHIMANO	SHIMANO	TOURNEY TX	TOURNEY TX	TOURNEY
Model no.		FD-M310-6	FD-MT400-D	FD-MT400-E	FD-TX800-TS3	FD-TX800-TS6	FD-TY700-TS3
Color	1	Series color	Black	Black	Series color	Series color	Series color
	2	-	-	-	-	-	-
Speeds	Front	3	2	2	3	3	3
	Rear	8/7	9	9	8/7	8/7	8/7
Compatible chain		HG 8/7-speed	HG 9-speed	HG 9-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed
Action	TOP SWING	X	-	-	X	X	X
	Down Swing	-	-	-	-	-	-
	SIDE SWING	-	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	-	-	X	X	X
	Top-Pull exclusive	-	-	-	-	-	-
	Down-Pull exclusive	-	-	-	-	-	-
	Front-Pull	-	X	X	-	-	-
Chain line (mm)		47.5 / 50	48.8/51.8*	48.8/51.8*	47.5 / 50	47.5 / 50	47.5 / 50
Chain stay angle		66-69	66-69	66-69	63-66	66-69	63-66
Top gear teeth		42/48T	36-38T	36-38T	42/48T	42/48T	42T
Total capacity		20T	14T	14T	20T	20T	18T
Applicable Top-Mid tooth difference		10T	-	-	10T	10T	8T
Multi access cable fixing bolt		-	-	-	-	-	-
Angled stroke adjust bolt		-	X	X	-	-	-
Angled clamp band design		X	-	-	X	X	X
Link bushings		-	4	4	-	-	-
Front clamp band	Material	Steel	-	-	Steel	Steel	Steel
	Finish	Painted	-	-	Painted	Painted	Painted
Rear clamp band, base bracket	Material	Steel	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Steel	-	-	Steel	Steel	Steel
	Finish	Nickel plated	-	-	Nickel plated	Nickel plated	Nickel plated
BB plate	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer link	Material	Steel	GFRP+STEEL	GFRP+STEEL	Steel	Steel	Steel
	Finish	Painted	-	-	Zinc plated	Zinc plated	Zinc plated
Inner link	Material	Steel	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome plated	TBD	TBD	Chrome plated	Chrome plated	Chrome plated
Cable fixing bolt	Material	Steel	Stainless steel	Stainless 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	Black	Black	Zinc plated	Zinc plated	Zinc plated
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-
Note			* Compatible with the special crankset which chainline is 3 mm outboard. The special frame is required.	* Compatible with the special crankset which chainline is 3 mm outboard. The special frame is required.			

Front Derailleur

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	
Model no.		FD-TY700-TS6	FD-TY710-TS3	FD-TY710-TS6	FD-TY500-TS3	FD-TY500-TS6	FD-TY510-TS3	
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	7/6	7/6	7/6	
Compatible chain		HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	
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	-	-	-	-	-	-	
Chain line (mm)		47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	
Chain stay angle		66-69	63-66	66-69	63-66	66-69	63-66	
Top gear teeth		42T	48T	48T	42T	42T	48T	
Total capacity		18T	20T	20T	18T	18T	20T	
Applicable Top-Mid tooth difference		8T	10T	10T	8T	8T	10T	
Multi access 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	Zinc plated	Zinc plated	Zinc plated	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Zinc plated	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 / Painted	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
- SMSL
- BL
- BL
- ST
- ST
- RD
- FD
- BR
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- BR
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- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Front Derailleur

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY TZ	TOURNEY TZ	
Model no.		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	
	2	-	-	-	-	-	
Speeds	Front	3	3	3	3 (friction)	3 (friction)	
	Rear	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	
Action	TOP SWING	X	-	-	-	-	
	Down Swing	-	X	X	X	X	
	SIDE SWING	-	-	-	-	-	
Mount	Clamp Band	28.6mm	X (w/ S size adapter)	X	-	X	
		31.8mm	X (w/ M size adapter)	X	-	X	
		34.9mm	X	-	X	-	
	E-type	With BB Plate	-	-	-	-	-
		Without BB Plate	-	-	-	-	-
Direct Mount	-	-	-	-	-		
Cable route type	Dual-Pull	X	-	-	-	-	
	Top-Pull exclusive	-	X	X	X	X	
	Down-Pull exclusive	-	X	X	X	X	
	Front-Pull	-	-	-	-	-	
Chain line (mm)		47.5 / 50	47.5	50	47.5	47.5	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	
Top gear teeth		48T	42T	42T	42T	48T	
Total capacity		20T	18T	18T	18T	20T	
Applicable Top-Mid tooth difference		10T	8T	8T	8T	10T	
Multi access cable fixing bolt		-	-	-	-	-	
Angled stroke adjust bolt		-	-	-	-	-	
Angled clamp band design		X	-	-	-	-	
Link bushings		-	-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Zinc plated	Zinc plated	
BB plate	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Outer link	Material	Steel	Steel / Resin	Steel / Resin	Steel / Resin	Steel / Resin	
	Finish	Zinc plated	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Zinc plated	Zinc plated	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated / Painted	Zinc plated	Zinc plated	Painted	Painted	
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Zinc plated	Zinc plated	
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	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	SAINT	DEORE XT	DEORE XT	SLX
Model no.		BR-M9000	BR-M9020	BR-M820	BR-M8000	BR-M8020	BR-M7000
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SB	SM-BH90-SBLS	SM-BH90-SB
Hose joint		Banjo	Banjo	Banjo	Banjo	Banjo	Banjo
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	White	-	-	-
J-Kit spec (for OEM)		X	X	X	X	X	X
ICE-TECHNOLOGIES pad compatible caliper		X	X	X	X	X	X
Pad	Standard 1	G02A Resin	J02 A Resin	H01A Resin	G02A Resin	H01A Resin	G02S Resin
	Standard 2	G04Ti Metal	J04C Metal	H03C Metal	J02 A Resin	-	J02A Resin
	Option 1	J02 A Resin	G02A Resin	-	G04S Metal	D01S Resin	G04S Metal
	Option 2	J04C Metal	G04Ti Metal	-	J04C Metal	-	J04C Metal
Recommended brake lever		BL-M9000	BL-M9020	BL-M820	BL-M8000	BL-M8000	BL-M7000
Recommended brake rotor		SM-RT99 * SM-RT99-A	SM-RT99 * SM-RT99-A	SM-RT99 SM-RT86	SM-RT81 SM-RT86	SM-RT81 SM-RT99 RT-EM800 RT-EM900	SM-RT70 SM-RT66
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	2	4	2	4	2
Piston material		Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Caliper	MONO-BODY	-	X	-	-	-	-
	Material	Magnesium	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Paint	Paint	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Ti	Ti	Stainless steel	Stainless steel	Steel	Stainless steel
	Tool size	** 4 mm	** 4 mm	5 mm	5 mm	5 mm	5 mm
	Anti loosen method	Wiring	Wiring	Snap ring	Snap ring	Snap ring	Snap ring
Pad 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)		316.1 g	359.6 g	306 g** (w/radiator fin)	402.5 g	-	418.8 g
Note		* 140 mm for rear only ** Titanium	* 140 mm for rear only ** Titanium	** single item weight		-	

- SL
- SMSL
- BL
- BL
- ST
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- RD
- FD
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- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Brake (Hydraulic disc brake)

Series		DEORE	ZEE	SHIMANO	SHIMANO	ALIVIO	ACERA
Model no.		BR-M6000	BR-M640	BR-MT500	BR-M446	BR-M4050	BR-M3050
Color	1	Series Black	Series color	Black	Black	Series color	Series color
	2	Series Silver*	-	-	Silver	-	-
	3	Black (SHIMANO logo)***	-	-	White	-	-
Brake type		Hydraulic Disc-brake	Hydraulic disc brake	Hydraulic Disc-brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SS	SM-BH90-SBS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose joint		Straight	Banjo	Straight	Straight	Straight	Straight
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	-	-	-	-
Pad	Standard 1	G02S Resin	D01S Resin	B01S resin	B01S Resin	B01S Resin	B01S Resin
	Standard 2	J02A Resin**	D02S Metal	-	-	-	-
	Option 1	G04S Metal**	H01A Resin	-	-	-	-
	Option 2	-	-	-	-	-	-
Recommended brake lever		BL-M6000 BL-T6000	BL-M640	BL-MT500	BL-T445	ST-M4050	ST-M3050
Recommended brake rotor		SM-RT64, SM-RT66, SM-RT54, SM-RT56	SM-RT66	SM-RT54 SM-RT56	SM-RT54 SM-RT56	SM-RT54 SM-RT56	SM-RT54 SM-RT56
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	2	2
Piston material		Resin	Ceramic	Resin	Resin	Resin	Resin
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Stainless steel	Steel	Steel	Steel	Steel
	Tool size	5 mm	5 mm	5 mm	5 mm	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		Split pin stainless steel	Split pin	Split pin stainless steel	Split pin	Split pin	Split pin
Average weight (kit for front 800mm, w/160mm recommend RT, w/lock ring, w/o adapter, w/2bolts, w/ Resin pad)		-	314 g**	-	-	-	-
Note		J-Kit spec available * T6000 kit only ** M6000 kit only *** Both M6000 kit and T6000 kit	** single item weight		SHIMANO logo		

Brake (Hydraulic disc brake)

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		BR-M395	BR-M365	BR-M315
Color	1	Black	Black	Black
	2	White	White	-
	3	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
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	-	-	-
J-Kit spec (for OEM)		X	X	X
ICE-TECHNOLOGIES pad compatible caliper		-	-	-
Pad	Standard 1	B01S Resin	B01S Resin	B01S Resin
	Standard 2	-	-	-
	Option 1	-	-	-
	Option 2	-	-	-
Recommended brake lever		BL-M425 / BL-M395	BL-M365	BL-M315
Recommended brake rotor		SM-RT30 SM-RT54 SM-RT56	SM-RT10 SM-RT26	SM-RT10 SM-RT26
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		X	X	X
Mount type (available for IS mount with mount adapter)		Post-type	Post-type	Post-type
Piston		2	2	2
Piston material		Resin	Resin	Resin
Caliper	MONO-BODY	-	-	-
	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel
	Tool size	5 mm	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring	Snap ring
Pad mount		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		SHIMANO logo		



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

Crankset

Series	XTR	XTR	XTR	XTR	XTR	XTR
Model no.	FC-M9020-3	FC-M9020-2	FC-M9020-B2	FC-M9020-1	FC-M9020-B1	FC-M9000-2
Color	1	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	48.8	51.8	50.4	53.4	48.8
P.C.D. (mm)	96/64	96/64	96/64	96	96	96/64
Gear arms	4arm ***	4arm ***	4arm	4arm ***	4arm ***	4arm ***
Chainring combination	40-30-22T	38-28T 36-26T 34-24T	36-26T 34-24T	36, 34, 32, 30T (SM-CRM91)	32, 30T (SM-CRM91)	38-28T 36-26T 34-24T
Q-factor (mm)	168	168	174	168	174	158
Crank arm length (mm)	150.0	-	-	-	-	-
	165.0	X	X	-	X	-
	167.5	-	-	-	-	-
	170.0	X	X	X	X	X
	172.5	-	-	-	-	-
	175.0	X	X	X	X	X
	180.0	X	X	-	X	-
Optional chain guard	With bash guard	-	-	-	-	-
	With chain guard	-	-	-	-	-
	Without chain / bash guard	X	X	X	X	X
Crank arm fixing bolt	With	X	X	X	X	X
	Without	-	-	-	-	-
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
	OCTALINK	-	-	-	-	-
	Square	-	-	-	-	-
Recommended BB	Threaded (normal)	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
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	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	Aluminum	-	-
	Finish	-	-	Anodized	-	-
Spider arm cover	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Outer ring	Material	Aluminum/CFRP	Titanium / Aluminum / CFRP	Ti + Aluminum	Stainless steel / Aluminum / CFRP **	Stainless steel / Aluminum / CFRP **
	Finish	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
	Finish	-	-	Anodized	-	-
Inner ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	-	Aluminum
	Finish	-	-	Anodized	-	-
Stainless chain guard fixing bolt	-	-	-	-	-	-
Average weight (175mm, w/o BB)	656 g	667 g (38-28T) 649 g (36-26T) 629 g (34-24T)	664 g (36-26T) 645 g (34-24T)	620 g (36T) 603 g (34T) 586 g (32T) 578 g (30T)	601 g (32T) 593 g (30T)	649 g (38-28T) 631 g (36-26T) 611 g (34-24T)
Note	*** Spider arm angle is special.	*** 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.

Crankset

Series	XTR	SAINT	SAINT	DEORE XT	DEORE XT	DEORE XT
Model no.	FC-M9000-1	FC-M820	FC-M825	FC-M8000-3	FC-M8000-2	FC-M8000-B2
Color	1	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-
Rear speeds	11	10	10	11	11	11
Compatible chain	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X11	HG-X11	HG-X11
Chainline (mm)	50.4	50.4	57.9	50	48.8	51.8
P.C.D. (mm)	96	104	104	96/64	96/64	96/64
Gear arms	4arm ***	4arm	4arm	4arm	4arm	4arm
Chainring combination	36, 34, 32, 30T (SM-CRM90)	38, 36, 34T (SM-CR82)	38, 36, 34T (SM-CR82)	40-30-22T	38-28T 36-26T 34-24T	36-26T 34-24T (NEW)
Q-factor (mm)	158	178	193	176	176	176
Crank arm length (mm)	150.0	-	-	-	-	-
	165.0	-	X	X	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	-	-	-	-	-
	Without chain / bash guard	X	X	X	X	X
Crank arm fixing bolt	With	X	X	X	X	X
	Without	-	-	-	-	-
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
	OCTALINK	-	-	-	-	-
	Square	-	-	-	-	-
Recommended BB	Threaded (normal)	SM-BB93	SM-BB80	SM-BB80	BB-MT800	BB-MT800
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-
	Pressfit	SM-BB94-41A	SM-BB71-41A	SM-BB71-41C	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
	73mm	X	X	-	X	X
	83mm	-	-	X	-	-
Chain case compatible	-	-	-	-	-	
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	Painted	Painted	Painted	Painted
Spider arm cover	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Outer ring	Material	Stainless steel / Aluminum / CFRP **	-	-	Aluminum /GFRP	Aluminum / CFRP
	Finish	Anodized	-	-	Anodized(teeth,body)	Plated(teeth), Painted(body)
Middle ring	Material	-	Aluminum	Aluminum	Steel/CFRP	-
	Finish	-	Anodized	Anodized	Plated(teeth)	-
Inner ring	Material	-	-	-	Aluminum	Aluminum
	Finish	-	-	-	Plated	Plated
Outer / middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	Anodized	Anodized	Anodized	Anodized
Inner ring fixing bolt	Material	-	-	-	Stainless steel	Stainless steel
	Finish	-	-	-	-	-
Stainless chain guard fixing bolt	-	-	-	-	-	-
Average weight (175mm, w/o BB)	616 g (36T) 600 g (34T) 598 g (32T) 586 g (30T)	847 g (38T) 837 g (36T) 827 g (34T)	858 g (38T) 849 g (36T) 838 g (34T)	773.9 g	738.9 g (38-28T) 718.1 g (36-26T) 695.5 g (34-24T)	721.6 g (36-26T)
Note	* 36/34T is hollow, 32/30T is not hollow ** 32T/30T is Stainless steel/Aluminum *** Spider arm angle is special.		for 83mm BB shell width			- Chainline 3 mm outboard - It requires special dimension of frame which cassette position and FD mount position are 3 mm outboard. - Only E type and D type FD are compatible with the special frame.

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

Crankset

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX	SLX
Model no.		FC-M8000-1	FC-M8000-B1	FC-M782	FC-M785	FC-M7000-11-2	FC-M7000-11-B2
Color	1	Series color	Series color	Black	Black	Series color	Series color
	2	-	-	Silver	Silver	-	-
Rear speeds		11	11	10	10	11	11
Compatible chain		HG-X11	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X11	HG-X11
Chainline (mm)		50.4	53.4	50	48.8	48.8	51.8
P.C.D. (mm)		96	96	96/64	104/64	96/64	96/64
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Chaining combination		34, 32, 30T (SM-CRM81)	32, 30T (SM-CRM81)	40-30-22T	40-28T 38-26T 38-24T	38-28T 36-26T 34-24T	36-26T 34-24T
Q-factor (mm)		176	176	175	175	176	176
Crank arm length (mm)	150.0	-	-	-	-	-	-
	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	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain / bash guard	X	X	X	X	X	X
Crank arm fixing bolt	With	X	X	X	X	X	X
	Without	-	-	-	-	-	-
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
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	BB-MT800-PA	BB-MT800-PA	SM-BB71-41A	SM-BB71-41A	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	Stainless steel/CFRP	Steel +CF composite	Aluminum	Aluminum	Aluminum +GF composite	Aluminum +GF composite
	Finish	Painted(body)	Plated (teeth) Painted (body)	Anodized	Anodized	Plated(teeth)	Plated(teeth)
Middle ring	Material	-	-	Steel +CF composite	-	-	-
	Finish	-	-	Plated	-	-	-
Inner ring	Material	-	-	Aluminum	Aluminum	Steel	Aluminum
	Finish	-	-	Plated	Plated	Painted	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	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Average weight (175mm, w/o BB)		699.8 g (34T) 694.5 g (32T) 680.0 g (30T)	698.0 g (36T)	778 g	727.6 g (40-28T) 717.6 g (38-26T) 715.8 g (38-24T)	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)
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.	FD-M780-A/M781-A			Chainline 3mm outboard

Crankset

Series		SLX	SLX	SLX	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-M7000-11-1	FC-M7000-11-B1	FC-M7000-10-3	FC-MT700-2	FC-MT700-B2	FC-MT600-2
Color	1	Series color	Series color	Series color	Black	Black	Black
	2	-	-	-	-	-	-
Rear speeds		11	11	10	11	11	11
Compatible chain		HG-X11	HG-X11	HG-X	HG-X11	HG-X11	HG-X11
Chainline (mm)		50	53	50	48.8	51.8	48.8
P.C.D. (mm)		96	96	96/64	*96/64	96/64	96/64
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Chaining combination		34, 32, 30T (SM-CRM70)	32, 30T (SM-CRM70)	40-30-22T	36-26T 34-24T (NEW)	36-26T 34-24T	36-26
Q-factor (mm)		176	176	176	175	175	177
Crank arm length (mm)	150.0	-	-	-	-	-	-
	165.0	-	-	-	-	-	-
	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
Crank arm fixing bolt	With	X	X	X	X	X	X
	Without	-	-	-	-	-	-
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	Steel +GF composite	Aluminum	Aluminum +GF composite	Aluminum +GF composite	Aluminum +GF composite
	Finish	Plated(teeth)	Plated(teeth)	Anodized	Plated(teeth)	Plated(teeth)	Anodized
Middle ring	Material	-	-	Steel +GF composite	-	-	-
	Finish	-	-	Plated(teeth)	-	-	-
Inner ring	Material	-	-	Steel	Aluminum	Aluminum	Steel
	Finish	-	-	Painted	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
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Average weight (175mm, w/o BB)		721.1 g (34T) 715.4 g (32T) 699.3 g (30T)	718.3 g (32T) 702.3 g (30T)	801.1 g (40-30-22T)	735.4 g (36-26T) 708.9 g (34-24T)	738.9 g (36-26T) 712.4 g (34-24T)	-
Note		w/o chaining spec available for OTC, chaining is sold separately (SM-CRM70)	- Chainline 3mm outboard - w/o chaining spec available for OTC, chaining is sold separately (SM-CRM70)		* Spider arm angle is special.		

Crankset

Series		SHIMANO	SHIMANO	ZEE	ZEE	SHIMANO	SHIMANO
Model no.		FC-MT600-B2	FC-MT500-3	FC-M640	FC-M645	FC-M627	FC-M627-B
Color	1	Black	Black	Series color	Series color	Black	Black
	2	-	-	-	-	-	-
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 10-speed	HG-X 10-speed
Chainline (mm)		51.8	50	50.4	57.9	48.8	51.8
P.C.D. (mm)		96/64	96/64	104	104	104/64	104/64
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Chainring combination		36-26	40-30-22T	38, 36, 34T (FC-M640/M645 chainring)	38, 36, 34T (FC-M640/M645 chainring)	38-24T 36-22T	36-22T
Q-factor (mm)		177	177	174.7	189.7	176	176
Crank arm length (mm)	150.0	-	-	-	-	-	-
	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	-	-	-	-
	Without chain / bash guard	X	X	X	X	X	X
Crank arm fixing bolt	With	X	X	X	X	X	X
	Without	-	-	-	-	-	-
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-MT800	SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52
	Threaded (E-type)	-	SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	BB-MT800-PA	BB-MT500-PA	SM-BB71-41A	SM-BB71-41C	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN / 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	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	-	-	Aluminum	Aluminum
	Finish	Painted	Painted	-	-	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum +GF composite	Aluminum	-	-	Aluminum	Aluminum
	Finish	Anodized	Anodized	-	-	Anodized	Anodized
Middle ring	Material	-	Steel	Aluminum	Aluminum	-	-
	Finish	-	Plated	Anodized	Anodized	-	-
Inner ring	Material	Steel	Steel	-	-	Steel	Steel
	Finish	Painted	Painted	-	-	Painted	Painted
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel*	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	-	-	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Average weight (175mm, w/o BB)		-	-	828 g (38T) 817 g (36T) 807 g (34T)	858 g (38T) 847 g (36T) 837 g (34T)	-	-
Note			* it is fixed on the threaded middle ring.		for 83mm BB shell width		- Chainline 3 mm outboard - It requires special dimension of frame which cassette position and FD mount position are 3 mm outboard. - Only E type and D type FD are compatible with the special frame.

Crankset

Series		DEORE	DEORE	DEORE	DEORE	DEORE	SHIMANO
Model no.		FC-M6000-3	FC-M6000-2	FC-M6000-B2	FC-M617	FC-M617-B2	FC-MT500-2
Color	1	Series Black	Series Black	Series Black	Black	Black	Black
	2	-	-	-	Silver	Silver	-
Rear speeds		10	10	10	10	10	10
Compatible chain		HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10-speed	HG-X	HG-X 10speed
Chainline (mm)		50	48.8	51.8	48.8	51.8	48.8
P.C.D. (mm)		96/64	96/64	96/64	104/64	104/64	96/64
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Chaining combination		40-30-22T	38-28T 36-26T 34-24T	36-26T	38-24T 36-22T	36-22T	36-26T
Q-factor (mm)		176	176	176	176	176	177
Crank arm length (mm)	150.0	-	-	-	-	-	-
	165.0	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	180.0	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain / bash guard	X	X	X	X	X	X
Crank arm fixing bolt	With	X	X	X	X	X	X
	Without	-	-	-	-	-	-
HOLLOWTECH II		X	X	X	-	-	-
2-PIECE CRANKSET		-	-	-	X	X	X
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	X	X	X	X
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52
	Threaded (E-type)	-	-	-	SM-BB52	SM-BB52	-
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded 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	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum +GF composite	Aluminum +GF composite	Aluminum	Aluminum	Aluminum +GF composite
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	Steel +GF composite	-	-	-	-	-
	Finish	Plated(teeth)	-	-	-	-	-
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Plated	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	-	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Average weight (175mm, w/o BB)		-	-	-	-	-	-
Note							

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

Crankset

Series		SHIMANO	ALIVIO	ALIVIO	ALIVIO	SHIMANO	SHIMANO
Model no.		FC-MT500-B2	FC-M4050	FC-M4050-B2	FC-M4060	FC-M4000	FC-M3000
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 10speed	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)		96/64	96/64	104/64	104/64	96/64	96/64
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Chaining combination		36-26T	40-30-22T	36-22T	48-36-26T	40-30-22T	40-30-22T
Q-factor (mm)		177	176	176	176	179.8	179.1
Crank arm length (mm)	150.0	-	-	-	-	-	-
	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
Crank arm fixing bolt	With	X	X	X	X	X	X
	Without	-	-	-	-	-	-
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-ES300	BB-UN26
	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)	-	-	-	-	118	LL113
	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 +GF composite	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	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Average weight (175mm, w/o BB)		-	-	-	-	-	-
Note							

Crankset

Series		ACERA	SHIMANO	SHIMANO	ALTUS	SHIMANO	ACERA
Model no.		FC-M3000-B2	FC-MT200	FC-MT100	FC-M2000	FC-M371	FC-M361
Color	1	Series color	Black	Black	Series color	Black	Black
	2	-	-	-	-	-	-
Rear speeds		9	9	9	9	9	8/7
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG for 9-speed	HG for 8/7-speed
Chainline (mm)		51.8	50	50	50	50	50
P.C.D. (mm)		104/64	Riveted	Riveted	Riveted	Riveted	104/64
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Chainring combination		36-22T	40-30-22T	40-30-22T	40-30-22T	44-32-22T 48-36-26T	48-38-28T 42-32-22T
Q-factor (mm)		179.1	176	179.2	179.6	180.5	185.9
Crank arm length (mm)	150.0	-	-	-	-	-	-
	165.0	-	-	-	X	-	- (48-38-28T) X* (42-32-22T)
	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
	Without chain / bash guard	X	X	X	X	X	X
Crank arm fixing bolt	With	X	X	X	X	X	X
	Without	-	-	-	-	-	-
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		-	X	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	-	X	-	-	-	-
	OCTALINK	-	-	-	-	-	-
	Square	X	-	X	X	X	X
Recommended BB	Threaded (normal)	BB-UN26	SM-BB52	BB-UN100	BB-UN100	BB-UN26	BB-UN26
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	BB-UN26-K	BB-UN26-K
	Pressfit	-	BB-MT500-PA	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	LL113	-	LL123	LL123	LL123	LL123
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	LL123-K	LL123-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
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	-	Steel	-	-	-	-
	Finish	-	Plated	-	-	-	-
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	Resin	-
	Finish	-	-	-	-	Resin	-
Outer ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	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	Steel
	Finish	Painted	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		-	-	-	-	-	-
Average weight (175mm, w/o BB)		-	-	-	-	-	-
Note			SHIMANO logo	SHIMANO logo		SHIMANO logo	SHIMANO logo, * 48-38-28 Silver with CG spec

Crankset

Series		ALTUS	SHIMANO	SHIMANO	SHIMANO	DXR
Model no.		FC-M311	FC-TY701	FC-TY501	FC-TY301	FC-MX71
Color	1	Black	Metallic Black	Black	Black	Series color
	2	-	Light Grey Metallic, Silver	Silver	-	-
Rear speeds		8/7	8/7/6	8/7/6	8/7/6	1
Compatible chain		HG for 8/7-speed	HG/UG for 8/7/6-speed	HG/UG for 8/7/6-speed	HG/UG for 8/7/6-speed	Single speed
Chainline (mm)		50	47.5 / 47.5+t	47.5 / 47.5+t	47.5 / 47.5+t	44
P.C.D. (mm)		Riveted	Riveted	Riveted	Riveted	104/64
Gear arms		4arm	4arm	4arm	4arm	4arm
Chainring combination		48-38-28T 42-32-22T	48-38-28T 42-34-24T	48-38-28T 42-34-24T	48-38-28T 42-34-24T	34, 38, 41, 42, 43, 44, 46T
Q-factor (mm)		187.9	185.5	185.5	181.5	173
Crank arm length (mm)	150.0	-	-	-	X	-
	165.0	-	X	X	-	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 (separate type)	X (integrated type)	X (integrated type)	-
	Without chain / bash guard	X	X	X	X	X
Crank arm fixing bolt	With	X	X	X	-	X
	Without	-	-	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-UN26	BB-UN100	BB-UN100	BB-UN100	-
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	BB-UN26-K	BB-UN100-K	BB-UN100-K	BB-UN100-K	-
	Pressfit	-	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	LL123	D-NL	D-NL	D-NL	-
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	LL123-K	D-NL 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	Resin	Painted	- (black) Painted (silver)	-	-
Outer ring	Material	Steel	Steel	Steel	Steel	Aluminum
	Finish	Painted	Painted (Metallic Black) Painted_Black (Light Grey Metallic) Painted_Silver (Silver)	Painted	Painted	Anodized
Middle ring	Material	Steel	Steel	Steel	Steel	-
	Finish	Painted	Painted (Metallic Black) Painted_Silver (Light Grey Metallic) Painted_Silver (Silver)	Painted	Painted	-
Inner ring	Material	Steel	Steel	Steel	Steel	-
	Finish	Painted	Painted (Metallic Black) Painted_Black (Light Grey Metallic) Painted_Silver (Silver)	Painted	Painted	-
Outer / middle ring fixing bolt	Material	-	-	-	-	Aluminum
	Finish	-	-	-	-	Anodized
Inner ring fixing bolt	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-
Average weight (175mm, w/o BB)		-	-	-	-	765 g (w/o chainring)
Note		SHIMANO logo				BMX racing 68mm BB shell width

Chain device

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

Chainring

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

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

Bottom Bracket (HOLLOWTECH II)

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

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

Bottom Bracket

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		BB-ES51	BB-ES51-E	BB-ES51-K	BB-ES51-AK	BB-ES300	BB-ES300-E	
Structure	Standard	X	-	-	-	X	-	
	E-type	-	X	-	-	-	X	
	For chain case	-	-	X	X	-	-	
Spindle	Hollow spindle	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)	-	-	-	-	-	-
	118	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	X	-	-	-	X	X
	118	73 (BC1.37)	X	-	-	-	X	-
		68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	X	-
	XL118	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73mm	-	-	-	-	-	-
	121	68 (BC1.37)	X	-	-	-	X	X
		70 (M36)	X	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	X	X
	126	68 (BC1.37)	X	-	-	-	X	X
		73 (BC1.37)	-	-	-	-	X	X
	D-NL 122	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
	D-EL 127	73 (BC1.37)	-	-	-	-	-	-
		68 (BC1.37)	-	-	-	-	-	-
	LL123	70 (M36)	-	-	-	-	-	-
		68 (BC1.37)	-	-	-	-	-	-
	123SP	73 (BC1.37)	-	-	-	-	-	-
		68 (BC1.37)	-	-	-	-	-	-
130	68 (BC1.37)	-	-	-	-	-	-	
	68 (BC1.37)	-	-	-	-	-	-	
Spindle	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted (Black)	Painted (Black)	Painted (Black)	Painted (Black)	Bonderlube	Bonderlube	
Left hand adapter	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Finish	-	-	-	-	-	-	
Right hand adapter / Shell	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel Chrome	Nickel Chrome	Nickel Chrome	Nickel Chrome	Phosphate coated	Phosphate coated	
Note					For FC-M521 Only			

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

Bottom Bracket

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		BB-ES300-K	BB-ES300-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 spindle	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)
	118	68 (BC1.37)	-	-	-	X	-	X
	118	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	XL118	68 (BC1.37)	-	-	X	-	-	-
		70 (M36)	-	-	X	-	-	-
		73mm	-	-	X	-	-	-
	121	68 (BC1.37)	X	X*	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	126	68 (BC1.37)	X*	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	D-NL 122	68 (BC1.37)	-	-	X	X*	-	X*
		70 (M36)	-	-	X	-	-	-
		73 (BC1.37)	-	-	X	-	-	-
	D-EL 127	68 (BC1.37)	-	-	X	X*	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	LL123	68 (BC1.37)	-	-	-	X	X	X (t=1.8)
		70 (M36)	-	-	-	X	-	-
		73 (BC1.37)	-	-	-	-	X	-
123SP	68 (BC1.37)	-	-	-	X	-	-	
130	68 (BC1.37)	-	-	-	X	-	-	
Spindle	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Bonderlube	Bonderlube	Painted (Black)	Bonderlube	Bonderlube	Bonderlube	
Left hand adapter	Material	Resin	Resin	Aluminum	Resin	Resin	Resin	
	Finish	-	-	-	-	-	-	
Right hand adapter / Shell	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Phosphate coated	Phosphate coated	Nickel Chrome	Phosphate coated	Phosphate coated	Phosphate coated	
Note		* w/ 0.7mm spacer	* w/ 1.8mm spacer version also available for FC-M521		* 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 spindle	-	-
	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)	-
	118	68 (BC1.37)	-
		73 (BC1.37)	-
	118	68 (BC1.37)	-
		70 (M36)	-
		73 (BC1.37)	-
	XL118	68 (BC1.37)	-
		70 (M36)	-
		73mm	-
	121	68 (BC1.37)	-
		70 (M36)	-
		73 (BC1.37)	-
	126	68 (BC1.37)	-
		73 (BC1.37)	-
		73 (BC1.37)	-
	D-NL 122	68 (BC1.37)	X*
		70 (M36)	-
		73 (BC1.37)	-
	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)	-	
	68 (BC1.37)	-	
Spindle	Material	Steel	
	Finish	Lube	
Left hand adapter	Material	Resin	
	Finish	-	
Right hand adapter / Shell	Material	Resin / Steel	
	Finish	-	
Note		* w/ crank arm fixing bolts spec available	* w/ crank arm fixing bolts spec available
			** w/ 0.7 mm spacer

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

Cassette Sprocket

Series	XTR	DEORE XT	DEORE XT	DEORE XT	SLX	SLX	
Model no.	CS-M9001	CS-M8000	CS-M8000	CS-M8000 (11-46T)	CS-M7000-11	CS-M7000-11	
Type	HG	HG	HG	HG	HG	HG	
Speeds	11-speed	11-speed	11-speed	11-speed	11-speed	11-speed	
Compatible chain	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	
Combination name	11-40T	11-40T	11-42T	11-46T	11-40T	11-42T	
Group name	bs	bs	bt	bu	bs	bt	
Combination * Titanium gear ** Aluminum gear	11th	40**	40**	42**	46**	40**	42**
	10th	35*	35	37	37**	35	37
	9th	31*	31	32	32	31	32
	8th	27*	27	28	28	27	28
	7th	24*	24	24	24	24	24
	6th	21*	21	21	21	21	21
	5th	19*	19	19	19	19	19
	4th	17	17	17	17	17	17
	3rd	15	15	15	15	15	15
	2nd	13	13	13	13	13	13
1st	11	11	11	11	11	11	
Carbon Spider arm	QTY (pcs)	2	-	-	-	-	-
	Finish	-	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	2	2	2	2	1	1
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Steel Spider arm	QTY (pcs)	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Titanium gear	Finish	Shot	-	-	-	-	
Steel gear	Finish	Shot-Ni	Shot-Ni	Shot-Ni	Shot-Ni	Shot-Ni	
Lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Plated	Plated
Average weight	330 g	411 g	434 g	437 g	450 g	476 g	
Note				NEW gear combination			

Series	SLX	XTR	XTR	DEORE XT	DEORE XT	DEORE XT	
Model no.	CS-M7000-11	CS-M980	CS-M980	CS-M771-10	CS-M771-10	CS-M771-10	
Type	HG	HG	HG	HG	HG	HG	
Speeds	11-speed	10-speed	10-speed	10-speed	10-speed	10-speed	
Compatible chain	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	
Combination name	11-46T	11-34T	11-36T	11-32T	11-34T	11-36T	
Group name	bu	bj	bk	bL	bj	bk	
Combination * Titanium gear ** Aluminum gear	11th	46**	-	-	-	-	
	10th	37**	34*	36*	32	34	36
	9th	32	30*	32*	28	30	32
	8th	28	26*	28*	25	26	28
	7th	24	23*	24*	22	23	24
	6th	21	21*	21*	20	21	21
	5th	19	19	19	18	19	19
	4th	17	17	17	16	17	17
	3rd	15	15	15	14	15	15
	2nd	13	13	13	12	13	13
1st	11	11	11	11	11	11	
Carbon Spider arm	QTY (pcs)	-	-	-	-	-	
	Finish	-	-	-	-	-	
Aluminum Spider arm	QTY (pcs)	1	3	3	2	2	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Steel Spider arm	QTY (pcs)	-	-	-	-	-	
	Finish	-	-	-	-	-	
Titanium gear	Finish	-	Shot	Shot	Shot	Shot	
Steel gear	Finish	Shot-Ni	Shot-Ni	Shot-Ni	Shot-Cr	Shot-Cr	
Lock ring	Material	Steel	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Plated	Anodized	Anodized	Anodized	Anodized	
Average weight	482 g	255 g	272 g	294 g	323 g	343 g	
Note							

Cassette Sprocket

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CS-HG81-10	CS-HG81-10	CS-HG81-10	CS-HG50-10	CS-HG500-10	CS-HG400-9
Type	HG	HG	HG	HG	HG	HG
Speeds	10-speed	10-speed	10-speed	10-speed	10-speed	9-speed
Compatible chain	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X	HG 9-speed
Combination name	11-32T	11-34T	11-36T	11-36T	11-42T	11-28T
Group name	bl	bj	bk	bk		bg
Combination * Titanium gear ** Aluminum gear	11th	-	-	-	-	-
	10th	32	34	36	36	42**
	9th	28	30	32	32	37
	8th	25	26	28	28	32
	7th	22	23	24	24	28
	6th	20	21	21	21	24
	5th	18	19	19	19	21
	4th	16	17	17	17	18
	3rd	14	15	15	15	15
2nd	12	13	13	13	13	
1st	11	11	11	11	11	
Carbon Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	1	1	1	-	-
	Finish	Anodized	Anodized	Anodized	-	-
Steel Spider arm	QTY (pcs)	-	-	-	1	1
	Finish	-	-	-	Ni plated	Plated
Titanium gear	Finish	Shot	Shot	Shot	-	-
Steel gear	Finish	Shot-Cr/ Shot-Ni	Shot-Cr/ Shot-Ni	Shot-Cr/ Shot-Ni	Ni plated	Shot-Ni
Lock ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Cr plated	Cr plated	Cr plated	Cr plated	Plated
Average weight	317 g	351 g	369 g	-	-	-
Note	Use CN-6701 with Road double FC					

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CS-HG400-9	CS-HG400-9	CS-HG400-9	CS-HG400-9	CS-HG300-9	CS-HG300-9
Type	HG	HG	HG	HG	HG	HG
Speeds	9-speed	9-speed	9-speed	9-speed	9-speed	9-speed
Compatible chain	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Combination name	11-32T	11-34T	12-36T	11-36T	11-28T	11-32T
Group name	ar	au	bh	cb	bg	ar
Combination * Titanium gear ** Aluminum gear	11th	-	-	-	-	-
	10th	-	-	-	-	-
	9th	32	34	36	36	28
	8th	28	30	32	30	24
	7th	24	26	28	26	21
	6th	21	23	24	23	18
	5th	18	20	21	20	16
	4th	16	17	18	17	14
	3rd	14	15	16	15	13
2nd	12	13	14	13	12	
1st	11	11	12	11	11	
Carbon Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Steel Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Titanium gear	Finish	-	-	-	-	-
Steel gear	Finish	Ni-Ni plated	Ni-Ni plated	Ni-Ni plated	Ni-Ni plated	Ni plated (Top gear: Zinc phosphate)
Lock ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Ni-Ni plated	Ni-Ni plated	Ni-Ni plated	Ni-Ni plated	Zinc phosphate
Average weight	-	-	-	-	-	-
Note						

Cassette Sprocket

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CS-HG300-9	CS-HG300-9	CS-HG201-9	CS-HG201-9	CS-HG201-9	CS-HG200-9
Type	HG	HG	HG	HG	HG	HG
Speeds	9-speed	9-speed	9-speed	9-speed	9-speed	9-speed
Compatible chain	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Combination name	11-34T	12-36T	11-32T	11-34T	11-36T	11-32T
Group name	au	bh	bo	bn	bw	bo
Combination * Titanium gear ** Aluminum gear	11th	-	-	-	-	-
	10th	-	-	-	-	-
	9th	34	36	32	34	36
	8th	30	32	28	30	30
	7th	26	28	24	26	26
	6th	23	24	21	23	23
	5th	20	21	19	20	20
	4th	17	18	17	17	17
	3rd	15	16	15	15	15
Carbon Spider arm	2nd	13	14	13	13	13
	1st	11	12	11	11	11
Carbon Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Steel Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Titanium gear	Finish	-	-	-	-	-
Steel gear	Finish	Ni plated (Top gear: Zinc phosphate)	Ni plated (Top gear: Zinc phosphate)	Ni-Ni plated (Top gear: Zinc phosphate)	Ni-Ni plated (Top gear: Zinc phosphate)	Ni-Ni plated (Top gear: Zinc phosphate)
Lock ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc phosphate	Zinc phosphate	Zinc Phosphate	Zinc Phosphate	Zinc Phosphate
Average weight	-	-	-	-	-	-
Note						

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CS-HG200-9	CS-HG200-9	CS-HG51-8	CS-HG51-8	CS-HG51-8	CS-HG41-8
Type	HG	HG	HG	HG	HG	HG
Speeds	9-speed	9-speed	8-speed	8-speed	8-speed	8-speed
Compatible chain	HG 9-speed	HG 9-speed	IG/HG	IG/HG	IG/HG	IG/HG
Combination name	11-34T	11-36T	11-28T	11-30T	11-32T	11-30T
Group name	bn	bw	bf	an	aw	an
Combination * Titanium gear ** Aluminum gear	11th	-	-	-	-	-
	10th	-	-	-	-	-
	9th	34	36	-	-	-
	8th	30	30	28	30	32
	7th	26	26	24	26	28
	6th	23	23	21	23	24
	5th	20	20	19	20	21
	4th	17	17	17	17	18
	3rd	15	15	15	15	15
Carbon Spider arm	2nd	13	13	13	13	13
	1st	11	11	11	11	11
Carbon Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Steel Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Titanium gear	Finish	-	-	-	-	-
Steel gear	Finish	Zinc Phosphate	Zinc Phosphate	Chrome plated	Chrome plated	Chrome plated
Lock ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc Phosphate	Zinc Phosphate	Chrome plated	Chrome plated	Chrome plated
Average weight	-	-	-	-	-	-
Note						

Cassette Sprocket

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CS-HG41-8	CS-HG41-8	CS-HG31-8	CS-HG31-8	CS-HG31-8	CS-HG200-8
Type	HG	HG	HG	HG	HG	HG
Speeds	8-speed	8-speed	8-speed	8-speed	8-speed	8-speed
Compatible chain	IG/HG	IG/HG	IG/HG	IG/HG	IG/HG	HG 8-speed
Combination name	11-32T	11-34T	11-30T	11-32T	11-34T	12-32T
Group name	aw	ao	an	aw	ao	br
Combination * Titanium gear ** Aluminum gear	11th	-	-	-	-	-
	10th	-	-	-	-	-
	9th	-	-	-	-	-
	8th	32	34	30	32	34
	7th	28	26	26	28	26
	6th	24	23	23	24	23
	5th	21	20	20	21	20
	4th	18	17	17	18	17
	3rd	15	15	15	15	15
	2nd	13	13	13	13	13
	1st	11	11	11	11	11
Carbon Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Steel Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Titanium gear	Finish	-	-	-	-	-
Steel gear	Finish	Ni plated	Ni plated	Zinc Phosphate	Zinc Phosphate	Zinc Phosphate
Lock ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Manganese phosphate	Manganese phosphate	Manganese phosphate	Manganese phosphate	Manganese phosphate
Average weight	-	-	-	-	-	-
Note						

Series	SHIMANO	SHIMANO	SHIMANO	DXR
Model no.	CS-HG41-7	CS-HG200-7	CS-HG200-7	CS-MX66
Type	HG	HG	HG	Single sprocket for FH-MX70
Speeds	7-speed	7-speed	7-speed	Single
Compatible chain	IG/HG	IG/HG	IG/HG	1/2" x 3/32"
Combination name	11-28T	12-28T	12-32T	-
Group name	ac	bm	bp	-
Combination * Titanium gear ** Aluminum gear	11th	-	-	-
	10th	-	-	-
	9th	-	-	-
	8th	-	-	-
	7th	28	28	32
	6th	24	24	26
	5th	21	21	21
	4th	18	18	18
	3rd	15	16	16
	2nd	13	14	
	1st	11	12	
Carbon Spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum Spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel Spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	Finish	-	-	-
Steel gear	Finish	Ni plated	Manganese phosphate	Manganese phosphate
Lock ring	Material	Steel	Steel	Steel
	Finish	Manganese phosphate	Manganese phosphate	Manganese phosphate
Average weight	-	-	-	-
Note	For BMX racing			

- SL
- SMSL
- 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	TOURNEY	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.	MF-HG37	MF-TZ500-7-CP	MF-TZ500-7	MF-TZ500-7-CP	MF-TZ500-7	MF-TZ500-6-CP	
Type	HG	HG/UG	HG/UG	HG/UG	HG/UG	HG/UG	
Speeds	7-speed	7-speed	7-speed	7-speed	7-speed	6-speed	
Combination	7th	28	34	34	28	28	-
	6th	24	24	24	24	24	28
	5th	21	22	22	22	22	24
	4th	19	20	20	20	20	21
	3rd	17	18	18	18	18	18
	2nd	15	16	16	16	16	16
	1st	13	14	14	14	14	14
Group	bz	-	-	-	-	-	
Spider arm (Pcs)	-	-	-	-	-	-	
Aluminum lock ring	-	-	-	-	-	-	
Finish	Ni plated & Black	Brown & Black	Brown & Black	Brown & Black	Brown & Black	Brown & Black	
Compatible chain	HG/UG	HG/UG	HG/UG	HG/UG	HG/UG	HG/UG	
Note		With Spoke protector		With Spoke protector		With Spoke protector	

Series	SHIMANO	
Model no.	MF-TZ500-6	
Type	HG/UG	
Speeds	6-speed	
Combination	7th	-
	6th	28
	5th	24
	4th	21
	3rd	18
	2nd	16
	1st	14
Group	-	
Spider arm (Pcs)	-	
Aluminum lock ring	-	
Finish	Brown & Black	
Compatible chain	HG/UG	
Note		

Front Hub (Disc Brake)

Series		XTR	XTR	SAINT	DEORE XT	DEORE XT	DEORE XT	
Model no.		HB-M9010	HB-M9010-B	HB-M820	HB-M8000	HB-M8010	HB-M8010-B	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
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	100	100	110	
Spoke hole	28H	X	X	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	-	-	X	-	X	-	
External serration rotor lock ring	with	X	X	X	-	X	-	
	without	-	-	-	-	-	-	
CENTER LOCK mount cover option		-	-	-	-	-	-	
Axle	Fixing method		15mm E-THRU	15mm E-THRU	20mm Thru	QR	15mm E-THRU	15mm E-THRU
	QR skewer length (mm)	129	-	-	-	-	-	-
		133	-	-	-	-	-	-
	Thru Axle Length x Inner Diameter (mm)	100 x 15	X	-	-	-	X	-
		110 x 15	-	X	-	-	-	X
110 x 20		-	-	X	-	-	-	
Flange distance (mm)		60.2	70.2	61.6	60.4	60.2	70.2	
Offset (mm)		5.4	5.4	5.6	5.8	5.3	5.4	
P.C.D. Left / Right (mm)		44 / 44	44/44	52	44/41	44/44	44/44	
Flange diameter (mm)		52.8	52.8	59.6	52.8/51.4	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	X	
Bearing	Stainless ball	X	X	X	-	-	-	
	Cup	Grinding	Grinding	CBN	-	-	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	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
QR lever	Material	-	-	-	Aluminum	-	-	
	Finish	-	-	-	Anodized	-	-	
	Color	-	-	-	Black	-	-	
QR housing	Material	-	-	-	Aluminum	-	-	
	Finish	-	-	-	Anodized	-	-	
QR nut	Material	-	-	-	Resin & Steel	-	-	
	Finish	-	-	-	-	-	-	
Disc brake rotor lock ring	Material	Aluminum	Aluminum	Aluminum	-	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	-	Anodized	Anodized	
Average weight		136 g	155 g	216 g	164 g	148 g	158 g	
Note				Axle is supplied with front fork		Axle is supplied with front fork		

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

Front Hub (Disc Brake)

Series		DEORE XT	DXR	SLX	SLX	SLX	ZEE	
Model no.		HB-M756	HB-MX71	HB-M7000	HB-M7010	HB-M7010-B	HB-M640	
Color	1	Black	Series color	Series color	Series color	Series color	Series color	
	2	Silver	-	-	-	-	-	
Brake Type		6-bolt disc brake	Rim	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	110	
Spoke hole	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	X	X	-	-	-	X	
External serration rotor lock ring	with	-	-	-	X	X	X	
	without	-	-	-	-	-	-	
CENTER LOCK mount cover option		-	-	-	-	-	-	
Axle	Fixing method		QR	Nut	QR	15mm E-THRU	15mm E-THRU	20mm Thru
	QR skewer length (mm)	129	-	-	-	-	-	-
		133	X	-	X	-	-	-
	Thru Axle Length x Inner Diameter (mm)	100 x 15	-	-	-	X	-	-
		110 x 15	-	-	-	-	X	-
110 x 20		-	-	-	-	-	X	
Flange distance (mm)		59.4	74	60.2	60.2	70.2	61.6	
Offset (mm)		5.5	0	5.5	5.4	5.4	5.6	
P.C.D. Left / Right (mm)		61	40	44/44	44/44	44/44	52	
Flange diameter (mm)		70.6	50.4	52.8/52.8	52.8	52.8	59.6	
Seal		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	
Internal grease sleeve		-	X	X	X	X	X	
Bearing	Stainless ball		-	X	-	-	-	
	Cup		-	Grinding	-	-	-	
	Cone		CBN	CBN	CBN	CBN	CBN	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Steel	Steel	Steel	Aluminum	Aluminum	Aluminum	
	Finish	-	-	-	Anodized	Anodized	Anodized	
QR lever	Material	Aluminum	-	Aluminum	-	-	-	
	Finish	Anodized	-	Anodized	-	-	-	
	Color	Black / Silver (Same as product color)	-	Black	-	-	-	
QR housing	Material	Aluminum	-	Aluminum	-	-	-	
	Finish	Anodized	-	Anodized	-	-	-	
QR nut	Material	Resin & Steel	-	Resin & Steel	-	-	-	
	Finish	-	-	-	-	-	-	
Disc brake rotor lock ring	Material	-	-	-	Aluminum	Aluminum	Aluminum	
	Finish	-	-	-	Anodized	Anodized	Anodized	
Average weight		239 g	263 g	189 g	148 g	158 g	228 g	
Note		Spoke hole 24H spec available	For BMX racing				Axle is supplied with front fork	

Front Hub (Disc Brake)

Series		DEORE	DEORE	DEORE	SHIMANO	SHIMANO	SHIMANO	
Model no.		HB-M6000	HB-M6010	HB-M6010-B	HB-M525A	HB-M475	HB-M4050	
Color	1	Series Black	Series Black	Series Black	Black	Black	Black	
	2	Series Silver*	-	-	Silver	Silver	Silver	
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	
O.L.D. (mm)		100	100	110	100	100	100	
Spoke hole	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	X	X	-	X	X	X	
External serration rotor lock ring	with	-	X	X	-	-	-	
	without	-	-	-	-	-	-	
CENTER LOCK mount cover option		-	-	-	-	-	-	
Axle	Fixing method		QR	15mm E-THRU	15mm E-THRU	QR	QR	QR
	QR skewer length (mm)	129	-	-	-	-	-	-
		133	X	-	-	X	X	X
	Thru Axle Length x Inner Diameter (mm)	100 x 15	-	X	-	-	-	-
		110 x 15	-	-	X	-	-	-
110 x 20		-	-	-	-	-	-	
Flange distance (mm)		60.2	60.2	70.2	59.4	59.4	60.2	
Offset (mm)		5.3	5.3	5.4	5.5	5.5	5.6	
P.C.D. Left / Right (mm)		44	44	44/44	61	61	44/44	
Flange diameter (mm)		52.8	52.8	52.8	70.6	70.6	52.8	
Seal		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact	Labyrinth & Contact	
Internal grease sleeve		-	X	X	-	-	-	
Bearing	Stainless ball		-	-	-	-	-	
	Cup		-	-	-	-	-	
	Cone		CBN	CBN	CBN	CBN	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Steel	Aluminum	Aluminum	Steel	Steel	Steel	
	Finish	-	Anodized	Anodized	-	-	-	
QR lever	Material	Aluminum	-	-	Aluminum	Steel	Aluminum	
	Finish	Anodized	-	-	Anodized	Plated	Barrel	
	Color	Black	-	-	Black	Black	Black	
QR housing	Material	Aluminum	-	-	Aluminum	Steel	Steel	
	Finish	Anodized	-	-	Anodized	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		* for Trekking	-	-	-	-	-	

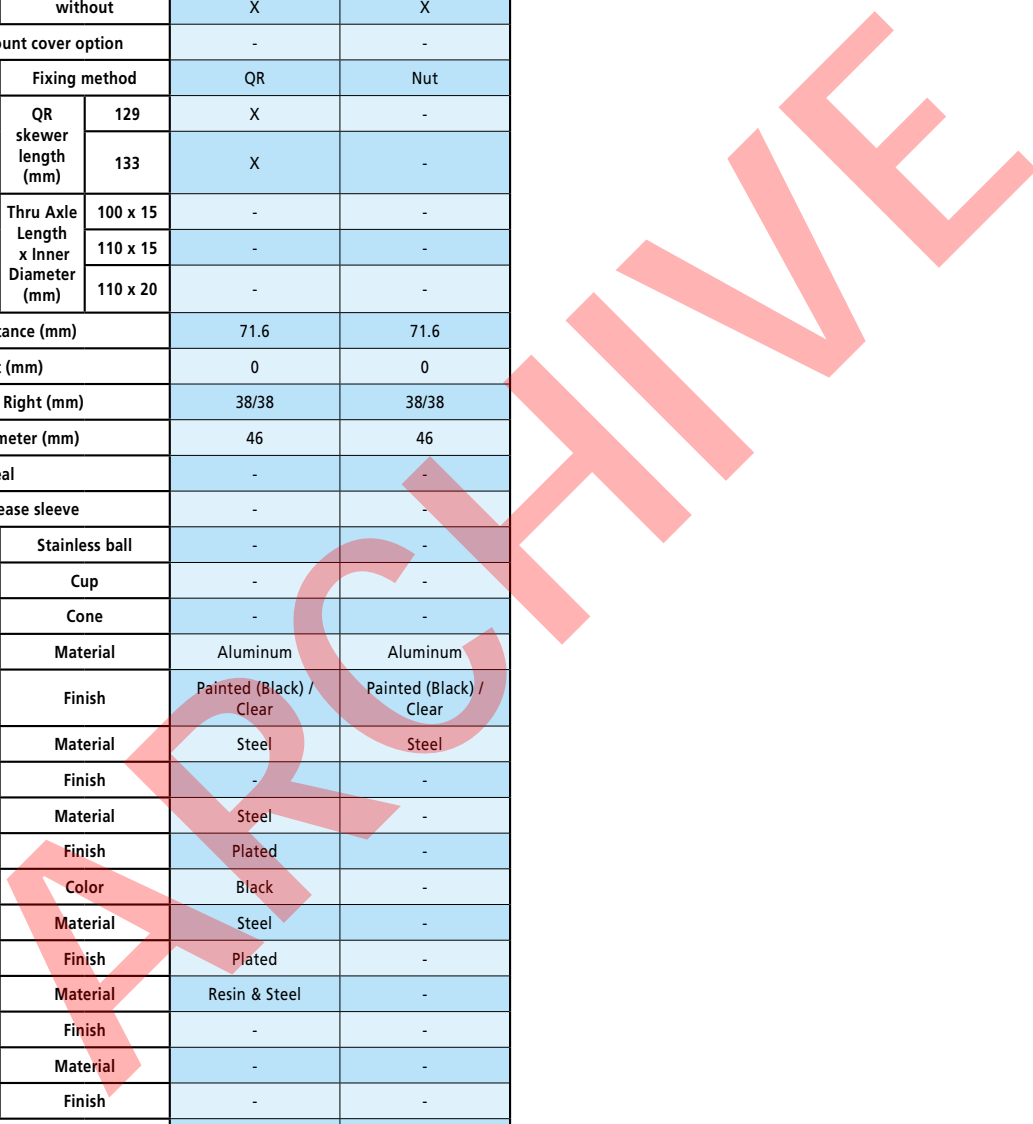
- SL
- SMSL
- BL
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- ST
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- RD
- FD
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- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

Front Hub (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	
Model no.		HB-M3050	HB-RM35	HB-TX505	
Color	1	Black	Black	Black	
	2	-	-	-	
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	
O.L.D. (mm)		100	100	100	
Spoke hole	28H	-	X	-	
	32H	X	X	X	
	36H	X	X	X	
External serration rotor lock ring	with	-	-	-	
	without	-	-	-	
CENTER LOCK mount cover option		-	-	-	
Axle	Fixing method		QR	QR	QR
	QR skewer length (mm)	129	-	-	-
		133	X	X	X
	Thru Axle Length x Inner Diameter (mm)	100 x 15	-	-	-
		110 x 15	-	-	-
110 x 20		-	-	-	
Flange distance (mm)		60.2	60.2	60.2	
Offset (mm)		5.5	5.5	5.5	
P.C.D. Left / Right (mm)		44 / 44	44/44	44/44	
Flange diameter (mm)		52.8	52.8	52.8	
Seal		Contact	-	-	
Internal grease sleeve		-	-	-	
Bearing	Stainless ball		-	-	-
	Cup		-	-	-
	Cone		-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Painted	Painted	
Axle	Material	Steel	Steel	Steel	
	Finish	-	-	-	
QR lever	Material	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	
	Color	Black	Black	Black	
QR housing	Material	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	
QR nut	Material	Resin & Steel	Resin & Steel	Resin & Steel	
	Finish	-	-	-	
Disc brake rotor lock ring	Material	-	-	-	
	Finish	-	-	-	
Average weight		-	-	-	
Note					

Front Hub (Rim Brake)

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



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

FREEHUB (Disc Brake)

Series		XTR	XTR	XTR	SAINT	SAINT	SAINT	
Model no.		FH-M9000	FH-M9010	FH-M9010-B	FH-M820	FH-M825	FH-M828	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
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	
External serration rotor lock ring	with	X	X	X	-	-	-	
	without	-	-	-	-	-	-	
Internal serration disc brake rotor lock ring	with	-	-	-	X	X	X	
	without	-	-	-	-	-	-	
CENTER LOCK mount cover option		-	-	-	-	-	-	
Axle	Fixing method		QR	12 mm E-THRU	12 mm E-THRU	Thru	Thru	12mm E-THRU
	QR skewer length (mm)	166	-	-	-	-	-	-
		168	X	-	-	-	-	-
		170	-	-	-	-	-	-
		173	X	-	-	-	-	-
	Thru Axle Length x Inner Diameter (mm)	135 x 10	-	-	-	X	-	-
		135 x 12	-	-	-	X	-	-
		142 x 12	-	X	-	-	-	X
		148 x 12	-	-	X	-	-	-
150 x 12		-	-	-	-	X	-	
Flange distance (mm)		57.4	57.4	63.4	57.4	72.4	57.4	
Offset (mm)		6.6	6.6	6.6	6.4	6.6	6.4	
P.C.D. Left/Right (mm)		44/45	44/45	44/45	44/45	44/45	44/45	
Flange diameter Left/Right (mm)		52.8/53.8	52.8/53.8	52.8/53.8	52.8/ 53.8	52.8/ 53.8	52.8/ 53.8	
Quick engagement		X (36points/360°)	X (36points/360°)	X (36points/360°)	X (36points/360°)	X (36points/360°)	X (36points/360°)	
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	X	X	X	X	
	Cup	Grinding	Grinding	Grinding	Grinding	Grinding	Grinding	
	Cone	CBN	CBN	CBN	CBN	CBN	CBN	
FREEHUB body	Material	Titanium	Titanium	Titanium	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	Anodized	-	-	-	
QR lever	Material	Aluminum	-	-	-	-	-	
	Finish	Anodized	-	-	-	-	-	
	Color	Series color	-	-	-	-	-	
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		271 g	268 g	277 g	347 g (ø10) 333 g (ø12)	348 g	336 g	
Note								

FREEHUB (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX	SLX	
Model no.		FH-M8000	FH-M8010	FH-M8010-B	FH-M756	FH-M7000	FH-M7010	
Color	1	Series color	Series color	Series color	Black	Series color	Series color	
	2	-	-	-	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	
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	135	142	
Spoke hole	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	-	-	-	X	-	-	
External serration rotor lock ring	with	-	-	-	-	-	-	
	without	-	-	-	-	-	-	
Internal serration disc brake rotor lock ring	with	-	-	-	-	-	-	
	without	-	-	-	-	-	-	
CENTER LOCK mount cover option		-	-	-	-	-	-	
Axle	Fixing method		QR	12 mm E-THRU	12 mm E-THRU	QR	QR	12 mm E-THRU
	QR skewer length (mm)	166	-	-	-	-	-	-
		168	X	-	-	X	X	-
		170	-	-	-	-	-	-
		173	X	-	-	X	X	-
	Thru Axle Length x Inner Diameter (mm)	135 x 10	-	-	-	-	-	-
		135 x 12	-	-	-	-	-	-
		142 x 12	-	X	-	-	-	X
		148 x 12	-	-	X	-	-	-
150 x 12		-	-	-	-	-	-	
Flange distance (mm)		57.4	57.4	63.4	57.1	57.4	56.3	
Offset (mm)		6.6	6.4	6.4	6.8	6.6	6.6	
P.C.D. Left/Right (mm)		44/45	44/45	44/45	61	44/45	44/45	
Flange diameter Left/Right (mm)		52.8/53.8	52.8/53.8	52.8/53.8	70.6	52.8/53.8	64/70	
Quick engagement		X (more than 36times/ 360degree)	X (more than 36times/ 360degree)	X (36times/ 360degree)	-	X (32times/360degree)	X (36times/ 360degree)	
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	-	-	-	-	-	-	
	Cup	-	-	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	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel	
	Finish	Anodized	Anodized	Anodized	-	-	-	
QR lever	Material	Aluminum	-	-	Aluminum	Aluminum	-	
	Finish	Anodized	-	-	Anodized	Anodized	-	
	Color	Series color	-	-	Series color	Black	-	
QR housing	Material	Aluminum	-	-	Aluminum	Aluminum	-	
	Finish	Anodized	-	-	Anodized	Anodized	-	
QR nut	Material	Resin & Steel	-	-	Resin & Steel	Resin & Steel	-	
	Finish	-	-	-	-	-	-	
Rotor lock ring	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Average weight* *w/o axle, QR nor locking		328 g	359 g	367 g	364 g	384 g	357 g	
Note					Spoke hole 24H spec available			

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

FREEHUB (Disc Brake)

Series		SLX	ZEE	ZEE	ZEE	DEORE	DEORE	
Model no.		FH-M7010-B	FH-M640	FH-M645	FH-M648	FH-M6000	FH-M6010	
Color	1	Series color	Series color	Series color	Series color	Series Black	Series Black	
	2	-	-	-	-	Series Silver*	-	
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)		148	135	150	142	135	142	
Spoke hole	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	-	X	X	X	X	-	
External serration rotor lock ring	with	-	-	-	-	-	-	
	without	-	-	-	-	-	-	
Internal serration disc brake rotor lock ring	with	-	-	-	-	-	-	
	without	-	-	-	-	-	-	
CENTER LOCK mount cover option		-	-	-	-	-	-	
Axle	Fixing method		12 mm E-THRU	Thru	Thru	Thru	QR	12 mm E-THRU
	QR skewer length (mm)	166	-	-	-	-	-	-
		168	-	-	-	-	X	-
		170	-	-	-	-	-	-
		173	-	-	-	-	X	-
	Thru Axle Length x Inner Diameter (mm)	135 x 10	-	X	-	-	-	-
		135 x 12	-	X	-	-	-	-
		142 x 12	-	-	-	X	-	X
		148 x 12	X	-	-	-	-	-
150 x 12		-	-	X	-	-	-	
Flange distance (mm)		62.3	57.4	72.4	57.4	57.4	57.4	
Offset (mm)		6.6	6.4	6.4	6.4	8.6	6.4	
P.C.D. Left/Right (mm)		44/45	44/45	44/45	44/45	45	44/45	
Flange diameter Left/Right (mm)		64/70	52.8/ 53.8	52.8/ 53.8	52.8/ 53.8	53.8	52.8/ 53.8	
Quick engagement		X (36times/ 360degree)	X (36points/360°)	X (36points/360°)	X (36points/360°)	-	X (36times/ 360degree)	
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	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	-	
	Color	-	-	-	-	Black	-	
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		360 g	375 g (ø10) 350 g (ø12)	363 g	357 g	-	-	
Note						* for Trekking		

FREEHUB (Disc Brake)

Series		DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		FH-M6010-B	FH-M525A	FH-M475	FH-M4050	FH-M3050	FH-RM35	
Color	1	Series Black	Black	Black	Black	Black	Black	
	2	-	Silver	Silver	Silver	-	-	
Brake Type		CENTER LOCK disc brake	6-bolt Disc brake	6-bolt Disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	
Speeds		8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed	8/9 speed	8/9 speed	8/9 speed	
O.L.D. (mm)		148	135	135	135	135	135	
Spoke hole	28H	-	-	-	-	-	X*	
	32H	X	X	X	X	X	X	
	36H	X	X	X	X	X	X	
External serration rotor lock ring	with	-	-	-	-	-	-	
	without	-	-	-	-	-	-	
Internal serration disc brake rotor lock ring	with	-	-	-	-	-	-	
	without	-	-	-	-	-	-	
CENTER LOCK mount cover option		-	-	-	-	-	-	
Axle	Fixing method		12 mm E-THRU	QR	QR	QR	QR	
	QR skewer length (mm)	166	-	-	X	-	X	X
		168	-	X	-	X	-	-
		170	-	-	X	-	X	X
		173	-	X	X	X	-	-
	Thru Axle Length x Inner Diameter (mm)	135 x 10	-	-	-	-	-	-
		135 x 12	-	-	-	-	-	-
		142 x 12	-	-	-	-	-	-
		148 x 12	X	-	-	-	-	-
150 x 12	-	-	-	-	-	-		
Flange distance (mm)		63.4	57.1	57.1	57.4	57.4	57.4	
Offset (mm)		6.4	6.8	6.8	6.6	6.6	6.6	
P.C.D. Left/Right (mm)		44/45	61	61	45 / 45	45 / 45	45 / 45	
Flange diameter Left/Right (mm)		52.8/53.8	70.6	70.6	53.8	53.8	53.8	
Quick engagement		X (36times/ 360degree)	-	-	-	-	-	
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact	-	
	FREEHUB body	Contact	Contact	-	Contact	-	-	
Internal grease sleeve		X	-	-	X	-	-	
Bearing	Stainless ball	-	-	-	-	-	-	
	Cup	-	-	-	-	-	-	
	Cone	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	Painted	
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	-	
QR lever	Material	-	Aluminum	Steel	Aluminum	Steel	Steel	
	Finish	-	Anodized	Plated	Barrel	Plated	Plated	
	Color	-	Black	Black	Black	Black	Black	
QR housing	Material	-	Aluminum	Steel	Steel	Steel	Steel	
	Finish	-	Anodized	Plated	Plated	Plated	Plated	
QR nut	Material	-	Resin & Steel	Steel + Resin	Steel + Resin	Steel + Resin	Steel + Resin	
	Finish	-	-	-	-	-	-	
Rotor lock ring	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Average weight* *w/o axle, QR nor locking		-	-	-	-	-	-	
Note							* 166 mm QR spec	

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

FREEHUB (Disc Brake)

Series		SHIMANO	
Model no.		FH-TX505-8	
Color	1	Black	
	2	-	
Brake Type		CENTER LOCK disc brake	
Speeds		8/9 speed	
O.L.D. (mm)		135	
Spoke hole	28H	-	
	32H	X	
	36H	X	
External serration rotor lock ring	with	-	
	without	-	
Internal serration disc brake rotor lock ring	with	-	
	without	-	
CENTER LOCK mount cover option		-	
Axle	Fixing method		QR
	QR skewer length (mm)	166	X
		168	-
		170	X
		173	-
	Thru Axle Length x Inner Diameter (mm)	135 x 10	-
		135 x 12	-
		142 x 12	-
		148 x 12	-
150 x 12		-	
Flange distance (mm)		57.4	
Offset (mm)		6.6	
P.C.D. Left/Right (mm)		45 / 45	
Flange diameter Left/Right (mm)		53.8	
Quick engagement		-	
Seal	Hub	-	
	FREEHUB body	-	
Internal grease sleeve		-	
Bearing	Stainless ball	-	
	Cup	-	
	Cone	-	
FREEHUB body	Material	Steel	
	Finish	-	
Hub shell	Material	Aluminum	
	Finish	Painted	
Axle	Material	Steel	
	Finish	-	
QR lever	Material	Steel	
	Finish	Plated	
	Color	Black	
QR housing	Material	Steel	
	Finish	Plated	
QR nut	Material	Steel + Resin	
	Finish	-	
Rotor lock ring	Material	-	
	Finish	-	
Average weight* *w/o axle, QR nor locking		-	
Note			

FREEHUB (Rim Brake)

Series		DXR	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		FH-MX71	FH-TX500-8-QR	FH-TX500-8-NT	FH-RM30-7-QR	FH-RM30-7-NT	
Color	1	Series color	Black	Black	Black	Black	
	2	-	Silver	Silver	Silver	Silver	
Brake Type		Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	
Speeds		Single speed	8/9-speed	8/9-speed	7-speed	7-speed	
O.L.D. (mm)		112	135	135	130/135	135	
Spoke hole	28H	-	-	-	-	-	
	32H	X	X	X	-	-	
	36H	X	X	X	X	X	
External serration rotor lock ring	with	-	-	-	-	-	
	without	X	X	X	X	X	
Internal serration rotor lock ring	with	-	-	-	-	-	
	without	X	X	X	X	X	
CENTER LOCK mount cover option		-	-	-	-	-	
Axle	Fixing method		Nut	QR	Nut	QR	Nut
	QR skewer length (mm)	166	-	X	-	X	-
		168	-	-	-	-	-
		170	-	X	-	X	-
		173	-	-	-	-	-
	Thru Axle Length x Inner Diameter (mm)	135 x 10	-	-	-	-	-
		135 x 12	-	-	-	-	-
		142 x 12	-	-	-	-	-
		148 x 12	-	-	-	-	-
150 x 12	-	-	-	-	-		
Flange distance (mm)		57.4	57.4	57.4	59.2	59.2	
Offset (mm)		0	6.8	6.8	135:5.5	135:5.5	
P.C.D. Left/Right (mm)		45	45 / 45	45 / 45	45 / 45	45 / 45	
Flange diameter Left/Right (mm)		53.8	53.8	53.8	53.8	53.8	
Quick engagement		X (36points/360°)	-	-	-	-	
Seal	Hub	Labyrinth & Contact	-	-	-	-	
	FREEHUB body	Contact	-	-	-	-	
Internal grease sleeve		X	-	-	-	-	
Bearing	Stainless ball	X	-	-	-	-	
	Cup	Grinding	-	-	-	-	
	Cone	CBN	-	-	-	-	
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum/2pcs	Aluminum/2pcs	
	Finish	Anodized	Painted (Black) / Clear	Painted (Black) / Clear	Painted (Black) Shiny (Silver)	Painted (Black) Shiny (Silver)	
Axle	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	
QR lever	Material	-	Steel	-	Steel	-	
	Finish	-	Plated	-	Plated	-	
	Color	-	Black	-	Silver	-	
QR housing	Material	-	Steel	-	Steel	-	
	Finish	-	Plated	-	Plated	-	
QR nut	Material	-	Steel + Resin	-	Steel + Resin	-	
	Finish	-	-	-	-	-	
Rotor lock ring	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Average weight* *w/o axle, QR nor locking		448 g (w/ fixing bolt)	-	-	-	-	
Note		For BMX					

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

Wheel (Disc Brake)

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		WH-M9000-TU-F15-29	WH-M9000-TU-R12-29	WH-M9000-TU-R-29	WH-M9000-TL-F15-29	WH-M9000-TL-R12-29	WH-M9000-TL-R-29
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Front / Rear		Front	Rear	Rear	Front	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***	MTB 11-speed***
O.L.D. (mm)		100	142	135	100	142	135
Wheel Size		29inch	29inch	29inch	622x20C (29")	622x20C (29")	622x20C (29")
External serration rotor lock ring	with	X	X	X	X	X	X
	without	-	-	-	-	-	-
Tire	Type	Tubular	Tubular	Tubular	UST / Clincher *	UST / Clincher *	UST / Clincher *
	Recommended size	29x1.90-2.10	29x1.90-2.10	29x1.90-2.10	29x1.90-2.25	29x1.90-2.25	29x1.90-2.25
Rim	Height (mm)	23	23	23	18.8	18.8	18.8
	Width (mm)	26	26	26	23.9	23.9	23.9
	Rim joint	CFRP monocoque	CFRP monocoque	CFRP monocoque	Welding	Welding	Welding
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	X	X	X	X	X	X
Requires rim tape		-	-	-	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	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0
	Bladed	-	-	-	-	-	-
Axle	Fixing method		15mm E-THRU	12mm E-THRU	QR	15mm E-THRU	12mm E-THRU
	QR skewer length (mm)	133	-	-	-	-	-
		168	-	-	X	-	-
		173	-	-	X	-	-
	Thru Axle Length x Inner Diameter (mm)	100 x 15	X	-	-	X	-
		110 x 15	-	-	-	-	-
142 x 12		-	X	-	-	X	
Quick engagement		-	X (36points/360°)	X (36points/360°)	-	X (36points/360°)	X (36points/360°)
Bearing	Stainless ball	X	X	X	X	X	X
	Cup	Grinding	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	Contact
Internal grease sleeve		X	X	X	X	X	X
Rim	Material	CFRP	CFRP	CFRP	Carbon/Aluminum	CFRP/Aluminum	CFRP/Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
FREEHUB body	Material	-	Titanium	Titanium	-	Titanium	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
	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	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	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	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)		606 g	739 g	742 g	761 g	894 g	894 g
Note			*** CP is available only for 11-speed	*** CP is available only for 11-speed	* Max pressure 280kPa ** Exclusive rim tape	* Max pressure 280kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed	* Max pressure 280kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed

Wheel (Disc Brake)

Series		XTR	XTR	XTR	XTR	XTR	XTR	
Model no.		WH-M9000-TL-F15-275	WH-M9000-TL-R12-275	WH-M9000-TL-R-275	WH-M9020-TL-F15-29	WH-M9020-TL-R12-29	WH-M9020-TL-F15-275	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front / Rear		Front	Rear	Rear	Front	Rear	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***	-	MTB 11-speed***	-	
O.L.D. (mm)		100	142	135	100	142	100	
Wheel Size		584x20C (650B=27.5")	584x20C (650B=27.5")	584x20C (650B=27.5")	622x24C (29")	622x24C (29")	584x24C (650B=27.5")	
External serration rotor lock ring	with	X	X	X	X	X	X	
	without	-	-	-	-	-	-	
Tire	Type	UST / Clincher *	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	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	18.8	
	Width (mm)	23.9	23.9	23.9	27.9	27.9	27.9	
	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	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	
	Bladed	-	-	-	-	-	-	
Axle	Fixing method		15mm E-THRU	12mm E-THRU	QR	15mm E-THRU	12mm E-THRU	15mm E-THRU
	QR skewer length (mm)	133	-	-	-	-	-	-
		168	-	-	X	-	-	-
		173	-	-	X	-	-	-
	Thru Axle Length x Inner Diameter (mm)	100 x 15	X	-	-	X	-	X
		110 x 15	-	-	-	-	-	-
142 x 12		-	X	-	-	X	-	
148 x 12		-	-	-	-	-	-	
Quick engagement		-	X (36points/360°)	X (36points/360°)	-	X (36points/360°)	-	
Bearing	Stainless ball	X	X	X	X	X	X	
	Cup	Grinding	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	Carbon/ Aluminum	CFRP/ Aluminum	CFRP/ Aluminum	Carbon/ Aluminum	CFRP/ Aluminum	Carbon/ Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	Black	Black	Black	
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
FREEHUB body	Material	-	Titanium	Titanium	-	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	-	-	-	
	Finish	-	-	Anodized	-	-	-	
	Color	-	-	Series color	-	-	-	
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	
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)		724 g	857 g	857 g	777 g	910 g	750 g	
Note		* Max pressure 280kPa ** Exclusive rim tape	* Max pressure 280kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed	* Max pressure 280kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed	* Max pressure 260kPa ** Exclusive rim tape	* Max pressure 280kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed	* Max pressure 260kPa ** Exclusive rim tape	

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

Wheel (Disc Brake)

Series		XTR	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		WH-M9020-TL-R12-275	WH-M8000-TL-F-29	WH-M8000-TL-F15-29	WH-M8000-TL-F15-B-29	WH-M8000-TL-R-29	WH-M8000-TL-R12-29	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front / Rear		Rear	Front	Front	Front	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***	-	-	-	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	
O.L.D. (mm)		142	100	100	110	135	142	
Wheel Size		584x24C (650B=27.5")	622x20C (29")	622x20C (29")	622x20C (29")	622x20C (29")	622x20C (29")	
External serration rotor lock ring	with	X	-	X	X	-	-	
	without	-	-	-	-	-	-	
Tire	Type	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	
	Recommended size	27.5x2.00-2.40	29x1.90-2.25	29x1.90-2.25	29x1.90-2.25	29x1.90-2.25	29x1.90-2.25	
Rim	Height (mm)	18.8	18.8	18.8	18.8	18.8	18.8	
	Width (mm)	27.9	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	2.0-1.5-2.0	2.0-1.8-2.0	2.0-1.5-2.0	2.0-1.5-2.0	
	Bladed	-	-	-	-	-	-	
Axle	Fixing method		12mm E-THRU	QR	15mm E-THRU	15mm E-THRU	QR	12mm E-THRU
	QR skewer length (mm)	133	-	X	-	-	-	-
		168	-	-	-	-	X	-
		173	-	-	-	-	X	-
	Thru Axle Length x Inner Diameter (mm)	100 x 15	-	-	X	-	-	-
		110 x 15	-	-	-	X	-	-
		142 x 12	X	-	-	-	-	X
148 x 12	-	-	-	-	-	-		
Quick engagement		X (36points/360°)	-	-	-	X (36points/360°)	X (36points/360°)	
Bearing	Stainless ball	X	-	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	CFRP/ Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	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	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	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	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	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)		880 g	839 g	796 g	843 g	1,017 g	1,046 g	
Note		* Max pressure 280kPa ** Exclusive rim tape *** CP is available only for MTB 11-speed	* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape	

Wheel (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		WH-M8000-TL-R12-B-29	WH-M8000-TL-F-275	WH-M8000-TL-F15-275	WH-M8000-TL-F15-B-275	WH-M8000-TL-R-275	WH-M8000-TL-R12-275	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front / Rear		Rear	Front	Front	Front	Rear	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)		148	100	100	110	135	142	
Wheel Size		622x20C (29")	584x20C (650B=27.5")	584x20C (650B=27.5")	584x20C (650B=27.5")	584x20C (650B=27.5")	584x20C (650B=27.5")	
External serration rotor lock ring	with	-	-	X	X	-	-	
	without	-	-	-	-	-	-	
Tire	Type	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	
	Recommended size	29x1.90-2.25	27.5x1.90-2.25	27.5x1.90-2.25	27.5x1.90-2.25	27.5x1.90-2.25	27.5x1.90-2.25	
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	2.0-1.8-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.8-2.0	2.0-1.5-2.0	2.0-1.5-2.0	
	Bladed	-	-	-	-	-	-	
Axle	Fixing method		12mm E-THRU	QR	15mm E-THRU	15mm E-THRU	QR	12mm E-THRU
	QR skewer length (mm)	133	-	X	-	-	-	-
		168	-	-	-	-	X	-
		173	-	-	-	-	X	-
	Thru Axle Length x Inner Diameter (mm)	100 x 15	-	-	X	-	-	-
		110 x 15	-	-	-	X	-	-
142 x 12		-	-	-	-	-	X	
148 x 12	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)		1,049 g	809 g	766 g	814 g	986 g	1,017 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	* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape	

Wheel (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		WH-M8000-TL-R12-B-275	WH-M8020-TL-F15-29	WH-M8020-TL-F15-B-29	WH-M8020-TL-R12-29	WH-M8020-TL-R12-B-29	WH-M8020-TL-F15-275	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front / Rear		Rear	Front	Front	Rear	Rear	Front	
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)		148	100	110	142	148	100	
Wheel Size		584x20C (650B=27.5")	622x24C (29")	622x24C (29")	622x24C (29")	622x24C (29")	584x24C (650B=27.5")	
External serration rotor lock ring	with	-	X	X	-	-	X	
	without	-	-	-	-	-	-	
Tire	Type	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	
	Recommended size	27.5x1.90-2.25	29x2.00-2.35	29x2.00-2.35	29x2.00-2.35	29x2.00-2.35	27.5x2.00-2.40	
Rim	Height (mm)	18.8	18.8	18.8	18.8	18.8	18.8	
	Width (mm)	23.9	27.9	27.9	27.9	27.9	27.9	
	Rim 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	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	
	Bladed	-	-	-	-	-	-	
Axle	Fixing method		12mm E-THRU	15mm E-THRU	15mm E-THRU	12mm E-THRU	12mm E-THRU	
	QR skewer length (mm)	133	-	-	-	-	-	
		168	-	-	-	-	-	
		173	-	-	-	-	-	
	Thru Axle Length x Inner Diameter (mm)	100 x 15	-	X	-	-	-	X
		110 x 15	-	-	X	-	-	-
		142 x 12	-	-	-	X	-	-
148 x 12		X	-	-	-	X	-	
Quick engagement		X (36points/360°)	-	-	X (36points/360°)	X (36points/360°)	-	
Bearing	Stainless ball	-	X	-	-	-	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	-	-	-	-	-	-	
	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	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)		1,020 g	836 g	881 g	1,085 g	1,088 g	802 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	* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape	

Wheel (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	SHIMANO	SHIMANO	SHIMANO	
Model no.		WH-M8020-TL-F15-B-275	WH-M8020-TL-R12-275	WH-M8020-TL-R12-B-275	WH-MT500-CL-F-275	WH-MT500-CL-R-275	WH-MT500-CL-F15-275	
Color	1	Series color	Series color	Series color	Black	Black	Black	
	2	-	-	-	-	-	-	
Front / Rear		Front	Rear	Rear	Front	Rear	Front	
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	142	148	100	135	100	
Wheel Size		584x24C (650B=27.5")	584x24C (650B=27.5")	584x24C (650B=27.5")	584x24C (650B=27.5")	584x24C (650B=27.5")	584x24C (650B=27.5")	
External serration rotor lock ring	with	X	-	-	-	-	X	
	without	-	-	-	-	-	-	
Tire	Type	UST / Clincher *	UST / Clincher *	UST / 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	27.5x2.00-2.40	27.5x2.00-2.40	
Rim	Height (mm)	18.8	18.8	18.8	21	21	21	
	Width (mm)	27.9	27.9	27.9	29.6	29.6	29.6	
	Rim joint	Welding	Welding	Welding	Sleeve	Sleeve	Sleeve	
	Brazed reinforcement	-	-	-	-	-	-	
	OFFSET RIM	X	X	X	-	-	-	
	Requires rim tape	X**	X**	X**	X (24-584)	X (24-584)	X (24-584)	
Spokes	Number	28	28	28	24	24	24	
	Straight pull	X	X	X	-	-	-	
	J-bend	-	-	-	X	X	X	
	Butted	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.3	2.3	2.3	
	Bladed	-	-	-	-	-	-	
Axle	Fixing method		15mm E-THRU	12mm E-THRU	12mm E-THRU	QR	QR	15mm E-THRU
	QR skewer length (mm)	133	-	-	-	X	-	-
		168	-	-	-	-	X	-
		173	-	-	-	-	X	-
	Thru Axle Length x Inner Diameter (mm)	100 x 15	-	-	-	-	-	X
		110 x 15	X	-	-	-	-	-
142 x 12		-	X	-	-	-	-	
	148 x 12	-	-	X	-	-	-	
Quick engagement		-	X (36points/360°)	X (36points/360°)	-	-	-	
Bearing	Stainless ball	-	-	-	-	-	-	
	Cup	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	
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	Brass	Brass	Brass	
	Finish	Anodized	Anodized	Anodized	Black	Black	Black	
FREEHUB body	Material	Steel	Steel	Steel	-	-	Steel	
	Finish	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted	
Axle	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Aluminum	
	Finish	Anodized	Anodized	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	Aluminum	-	-	-	-	Steel	
	Finish	Anodized	-	-	-	-	Painted	
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE 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	CATEYE 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	CATEYE RR-317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)		847 g	1,050 g	1,053 g	912 g	1,098 g	887 g	
Note		* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape	* Max pressure 300kPa ** Exclusive rim tape	-	-	-	

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		WH-MT500-CL-R12-275	WH-MT500-CL-F15-B-275	WH-MT500-CL-R12-B-275	WH-MT500-CL-F-29	WH-MT500-CL-R-29	WH-MT500-CL-F15-29	
Color	1	Black	Black	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
Front / Rear		Rear	Front	Rear	Front	Rear	Front	
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)		142	110	148	100	135	100	
Wheel Size		584x24C (650B=27.5")	584x24C (650B=27.5")	584x24C (650B=27.5")	622x24C	622x24C	622x24C	
External serration rotor lock ring	with	-	X	-	-	-	X	
	without	-	-	-	-	-	-	
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher	
	Recommended size	27.5x2.00-2.40	27.5x2.00-2.40	27.5x2.00-2.40	29x2.00-2.40	29x2.00-2.40	29x2.00-2.40	
Rim	Height (mm)	21	21	21	21	21	21	
	Width (mm)	29.6	29.6	29.6	29.6	29.6	29.6	
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	
	Brazed reinforcement	-	-	-	-	-	-	
	OFFSET RIM	-	-	-	-	-	-	
	Requires rim tape	X (24-584)	X (24-584)	X (24-584)	X (24-622)	X (24-622)	X (24-622)	
Spokes	Number	24	24	24	24	24	24	
	Straight pull	-	-	-	-	-	-	
	J-bend	X	X	X	X	X	X	
	Butted	2.3	2.3	2.3	2.3	2.3	2.3	
	Bladed	-	-	-	-	-	-	
Axle	Fixing method	12mm E-THRU	15mm E-THRU	12mm E-THRU	QR	QR	15mm E-THRU	
	QR skewer length (mm)	133	-	-	X	-	-	
		168	-	-	-	-	X	
		173	-	-	-	-	X	
	Thru Axle Length x Inner Diameter (mm)	100 x 15	-	-	-	-	-	X
		110 x 15	-	X	-	-	-	-
142 x 12		X	-	-	-	-	-	
148 x 12	-	-	X	-	-	-		
Quick engagement		-	-	-	-	-	-	
Bearing	Stainless ball	-	-	-	-	-	-	
	Cup	-	-	-	-	-	-	
	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	Brass	Brass	Brass	Brass	Brass	Brass	
	Finish	Black	Black	Black	Black	Black	Black	
FREEHUB body	Material	Steel	-	Steel	-	-	Steel	
	Finish	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Axle	Material	Steel	Aluminum	Steel	Steel	Steel	Aluminum	
	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	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	RR-550-WUA SW	
	DIN	RR317-WUA SW	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)		1,099 g	897 g	1,111 g	955 g	1,142 g	930 g	
Note		-	-	-	-	-	-	

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		WH-MT500-CL-R12-29	WH-MT500-CL-F15-B-29	WH-MT500-CL-R12-B-29	WH-MT35-F	WH-MT35-F15	WH-MT35-R	
Color	1	Black	Black	Black	Black	Black	Black	
	2	-	-	-	White	White	White	
Front / Rear		Rear	Front	Rear	Front	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)		142	110	148	100	100	135	
Wheel Size		622x24C	622x24C	622x24C	559x19C (26")	559x19C (26")	559x19C (26")	
External serration rotor lock ring	with	-	X	-	-	X	-	
	without	-	-	-	-	-	-	
Tire	Type	Clincher	Clincher	Clincher	clincher	clincher	clincher	
	Recommended size	29x2.00-2.40	29x2.00-2.40	29x2.00-2.40	26x1.50-2.25	26x1.50-2.25	26x1.50-2.25	
Rim	Height (mm)	21	21	21	19	19	19	
	Width (mm)	29.6	29.6	29.6	24.6	24.6	24.6	
	Rim joint	Sleeve	Sleeve	Sleeve	Welding	Welding	Welding	
	Brazed reinforcement	-	-	-	-	-	-	
	OFFSET RIM	-	-	-	-	-	-	
	Requires rim tape	X (24-622)	X (24-622)	X (24-622)	X (20-559)	X (20-559)	X (20-559)	
Spokes	Number	24	24	24	24	24	28	
	Straight pull	-	-	-	-	-	-	
	J-bend	X	X	X	X	X	X	
	Butted	2.3	2.3	2.3	2.0	2.0	2.0	
	Bladed	-	-	-	X	X	X	
Axle	Fixing method	12mm E-THRU	15mm E-THRU	12mm E-THRU	QR	15mm E-THRU	QR	
	QR skewer length (mm)	133	-	-	X	-	-	
		168	-	-	-	-	X	
		173	-	-	-	-	X	
	Thru Axle Length x Inner Diameter (mm)	100 x 15	-	-	-	-	X	-
		110 x 15	-	X	-	-	-	-
142 x 12		X	-	-	-	-	-	
148 x 12	-	-	X	-	-	-		
Quick engagement		-	-	-	-	-	-	
Bearing	Stainless ball	-	-	-	-	-	-	
	Cup	-	-	-	-	-	-	
	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	
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized (Black rim)/ Painted (White rim)	Anodized (Black rim)/ Painted (White rim)	Anodized (Black rim)/ Painted (White rim)	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	Black	Black	Black	
Nipple	Material	Brass	Brass	Brass	Aluminum	Aluminum	Aluminum	
	Finish	Black	Black	Black	Black	Black	Black	
FREEHUB body	Material	Steel	-	Steel	-	-	Steel	
	Finish	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Anodized	Anodized	Anodized	
Axle	Material	Steel	Aluminum	Steel	Steel	Aluminum	Steel	
	Finish	-	Anodized	-	-	Anodized	-	
QR lever	Material	-	-	-	Aluminum	-	Aluminum	
	Finish	-	-	-	Anodized	-	Anodized	
	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	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	RR-550-WUA SW	
	DIN	RR317-WUA SW	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)		1,143 g	939 g	1,156 g	839 g	834 g	1,076 g	
Note		-	-	-	-	-	*** CP is available only for 9 & 10-speed	

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

Wheel (Disc Brake)

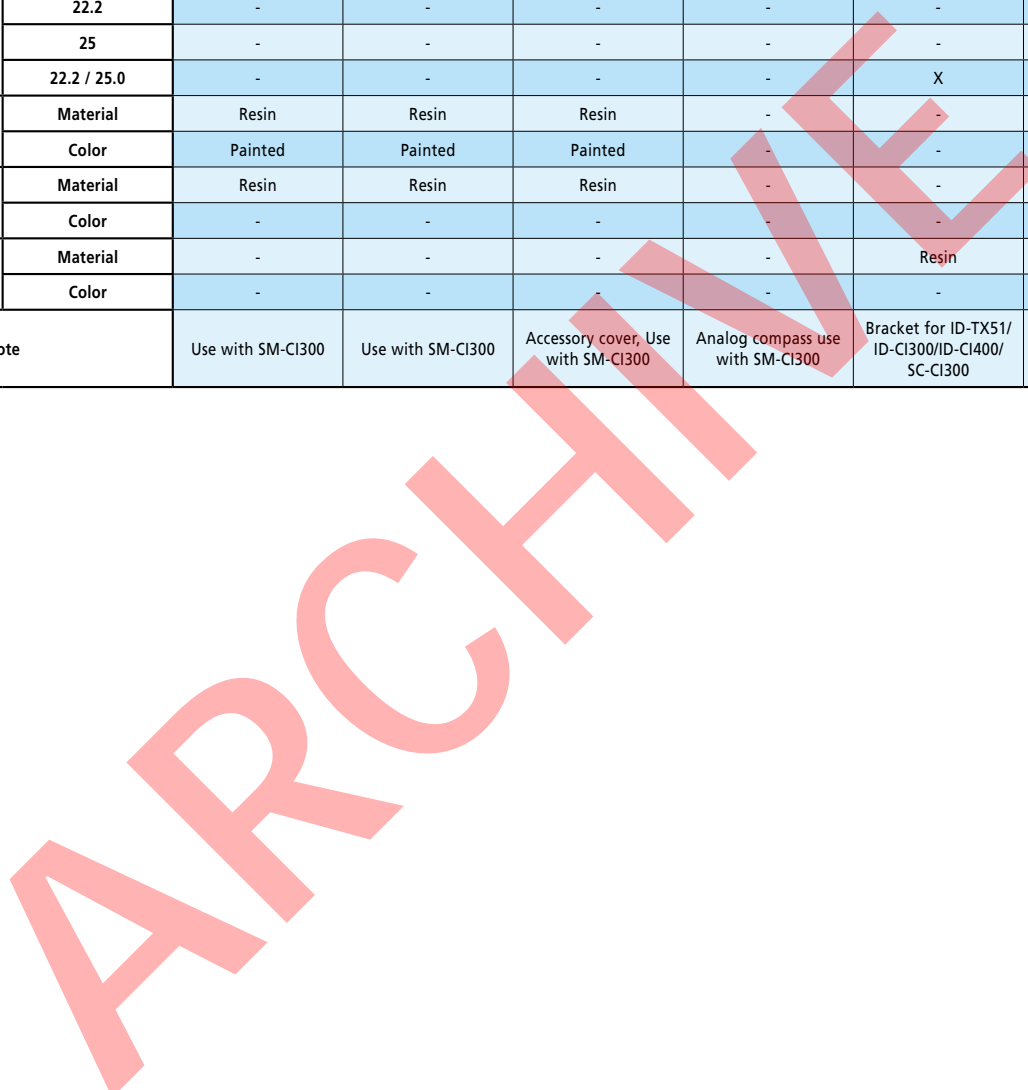
Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		WH-MT35-F-275	WH-MT35-F15-275	WH-MT35-R-275	WH-MT35-F-29	WH-MT35-F15-29	WH-MT35-R-29	
Color	1	Black	Black	Black	Black	Black	Black	
	2	White	White	White	White	White	White	
Front / Rear		Front	Front	Rear	Front	Front	Rear	
Brake Type		CENTER 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***	
O.L.D. (mm)		100	100	135	100	100	135	
Wheel Size		584x19C (650B=27.5")	584x19C (650B=27.5")	584x19C (650B=27.5")	622x19C (29")	622x19C (29")	622x19C (29")	
External serration rotor lock ring	with	-	X	-	-	X	-	
	without	-	-	-	-	-	-	
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher	
	Recommended size	27.5x1.50-2.25	27.5x1.50-2.25	27.5x1.50-2.25	29x1.50-2.25	29x1.50-2.25	29x1.50-2.25	
Rim	Height (mm)	19	19	19	19	19	19	
	Width (mm)	24.6	24.6	24.6	24.6	24.6	24.6	
	Rim joint	Welding	Welding	Welding	Welding	Welding	Welding	
	Brazed reinforcement	-	-	-	-	-	-	
	OFFSET RIM	-	-	-	-	-	-	
Requires rim tape		X (20-584)	X (20-584)	X (20-584)	X (20-622)	X (20-622)	X (20-622)	
Spokes	Number	24	24	28	24	24	28	
	Straight pull	-	-	-	-	-	-	
	J-bend	X	X	X	X	X	X	
	Butted	2.0	2.0	2.0	2.0	2.0	2.0	
	Bladed	X	X	X	X	X	X	
Axle	Fixing method		QR	15mm E-THRU	QR	QR	15mm E-THRU	QR
	QR skewer length (mm)	133	X	-	-	X	-	-
		168	-	-	X	-	-	X
		173	-	-	X	-	-	X
	Thru Axle Length x Inner Diameter (mm)	100 x 15	-	X	-	-	X	-
		110 x 15	-	-	-	-	-	-
		142 x 12	-	-	-	-	-	-
148 x 12		-	-	-	-	-	-	
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	
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized (Black rim)/ Painted (White rim)	Anodized (Black rim)/ Painted (White rim)	Anodized (Black rim)/ Painted (White rim)	Anodized (Black rim)/ Painted (White rim)	Anodized (Black rim)/ Painted (White rim)	Anodized (Black rim)/ Painted (White rim)	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	Black	Black	Black	
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Black	Black	Black	Black	Black	Black	
FREEHUB body	Material	-	-	Steel	-	-	Steel	
	Finish	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Steel	Aluminum	Steel	Steel	Aluminum	Steel	
	Finish	-	Anodized	-	-	Anodized	-	
QR lever	Material	Aluminum	-	Aluminum	Aluminum	-	Aluminum	
	Finish	Anodized	-	Anodized	Anodized	-	Anodized	
	Color	Black	-	Black	Black	-	Black	
QR housing	Material	Steel	-	Steel	Steel	-	Steel	
	Finish	Painted	-	Painted	Painted	-	Painted	
QR nut	Material	Resin & Steel	-	Resin & Steel	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	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	RR-550-WUA SW	
	DIN	RR317-WUA SW	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)		874 g	889 g	1091 g	908 g	902 g	1,148 g	
Note				*** CP is available only for 9 & 10-speed			*** CP is available only for 9 & 10-speed	

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		WH-MT15-A-F-29	WH-MT15-A-F15-29	WH-MT15-A-R-29	WH-MT15-A-F-275	WH-MT15-A-F15-275	WH-MT15-A-R-275	
Color	1	Black	Black	Black	Black	Black	Black	
	2	White	White	White	White	White	White	
Front / Rear		Front	Front	Rear	Front	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***	
O.L.D. (mm)		100	100	135	100	100	135	
Wheel Size		622x19C (29")	622x19C (29")	622x19C (29")	584x19C (650B=27.5")	584x19C (650B=27.5")	584x19C (650B=27.5")	
External serration rotor lock ring	with	-	X	-	-	X	-	
	without	-	-	-	-	-	-	
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher	
	Recommended size	29x1.50-2.25	29x1.50-2.25	29x1.50-2.25	27.5x1.90-2.25	27.5x1.90-2.25	27.5x1.90-2.25	
Rim	Height (mm)	21	21	21	21	21	21	
	Width (mm)	24.6	24.6	24.6	24.6	24.6	24.6	
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	
	Brazed reinforcement	-	-	-	-	-	-	
	OFFSET RIM	-	-	-	-	-	-	
Requires rim tape		X (20-622)	X (20-622)	X (20-622)	X (20-584)	X (20-584)	X (20-584)	
Spokes	Number	28	28	28	28	28	28	
	Straight pull	-	-	-	-	-	-	
	J-bend	X	X	X	X	X	X	
	Butted	2.0	2.0	2.0	2.0	2.0	2.0	
	Bladed	X	X	X	X	X	X	
Axle	Fixing method		QR	15mm E-THRU	QR	QR	15mm E-THRU	
	QR skewer length (mm)	133	X	-	-	X	-	
		168	-	-	X	-	-	
		173	-	-	X	-	-	
	Thru Axle Length x Inner Diameter (mm)	100 x 15	-	X	-	-	X	-
		110 x 15	-	-	-	-	-	-
		142 x 12	-	-	-	-	-	-
148 x 12		-	-	-	-	-	-	
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	-	-	
Internal grease sleeve		-	X	X	-	X	X	
Rim	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish		Anodized (Black rim)/ Painted (White rim)	Anodized (Black rim)/ Painted (White rim)	Anodized (Black rim)/ Painted (White rim)	Anodized (Black rim)/ Painted (White rim)	Anodized (Black rim)/ Painted (White rim)	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		Silver	Silver	Silver	Silver	Silver	
FREEHUB body	Material		-	-	Steel	-	Steel	
	Finish		-	-	-	-	-	
Hub shell	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish		Painted	Painted	Painted	Painted	Painted	
Axle	Material		Steel	Aluminum	Steel	Aluminum	Steel	
	Finish		-	Anodized	-	-	Anodized	
QR lever	Material		Aluminum	-	Aluminum	-	Aluminum	
	Finish		Painted	-	Painted	-	Painted	
	Color		Black	-	Black	-	Black	
QR housing	Material		Steel	-	Steel	-	Steel	
	Finish		Painted	-	Painted	-	Painted	
QR nut	Material		Resin & Steel	-	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)		1,036 g	1,031 g	1,246 g	1,002 g/Black 1,007 g/White	995 g/Black 1,000 g/White	1,204 g/Black 1,209 g/White	
Note				*** CP is available only for 9 & 10-speed			*** CP is available only for 9 & 10-speed	

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-TX51/ ID-CI300/ID-CI400/ SC-CI300	Cowling Use with SM-CI300



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Front Hub (Rim/Disc Brake)	112	HB
FREEHUB (Rim/Disc Brake)	113	FH

TREKKING

Shifting Lever

Series		DEORE XT	DEORE XT	DEORE LX	DEORE LX	DEORE	DEORE
Model no.		SL-T8000-R	SL-T8000-L	SL-T670-R	SL-T670-L	SL-T6000-R	SL-T6000-L
Color	1	Series color	Series color	Black	Black	Series black	Series black
	2	-	-	Silver	Silver	Series silver	Series silver
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	3	-	3	-	2/3
Rear speeds		10	-	10	-	10	-
Compatible rear derailleur Type		MTB 10-speed RD	-	MTB 10-speed RD	-	MTB 10-speed RD	-
I-SPEC B-type compatible		-	-	-	-	-	-
I-SPEC II compatible		-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
2 / 3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		4	-	3	-	3	-
Release function	MULTI RELEASE	X	-	-	-	-	-
	INSTANT RELEASE	X	X	-	-	-	-
	2WAY-RELEASE	X	X	X	X	X	X
OPTICAL GEAR DISPLAY	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
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	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	GFRP	GFRP	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)		126 g	120 g	260 g/pair	260 g/pair	-	-
Note							

Shifting Lever

Series		DEORE	DEORE
Model no.		SL-T610-R	SL-T610-L
Color	1	Black	Black
	2	Silver	Silver
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	3
Rear speeds		10	-
Compatible rear derailleur Type		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
2 / 3 mode converter		-	-
Max. multiple shifts (Main lever/ rear)		3	-
Release function	MULTI RELEASE	-	-
	INSTANT RELEASE	-	-
	2WAY-RELEASE	X	X
OPTICAL GEAR DISPLAY	with	X	X
	with (removable)	-	-
	without	-	-
Multi-Bearing construction		-	-
Shifting lever bracket	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Clamp bolt	Material	Stainless steel	Stainless steel
	Finish	-	-
Main lever body	Material	GFRP & Steel	GFRP & Steel
	Finish	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel
	Finish	-	-
Base cover	Material	GFRP	GFRP
	Finish	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel
	Finish	-	-
Recommended shifting lever outer casing		OT-SP41	OT-SP41
Average weight (pc)		-	-
Note			

SL

BL

BL

ST

RD

FD

BR

BR

FC

HB

FH

Brake Lever (Hydraulic disc brake)

Series		DEORE XT	DEORE LX	DEORE	SHIMANO
Model no.		BL-T8000	BL-T675-B	BL-T6000	BL-T445
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (Finger)		3	3	3	3
Color	1	Series color	Black	Series black	Black
	2	-	Silver	Series silver	Silver
	3	-	-	Black (SHIMANO logo)*	White
Brake hose (Kit)		SM-BH90-SBM	SM-BH90-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	-	-	-	White
J-Kit spec (for OEM)		X	X	X	X
Recommended brake caliper		BR-M8000	BR-T675	BR-M6000	BR-M446
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		X	X	X	X
Reach adjust	Toolless	X	X	-	-
	Tool	-	-	X	X
Free stroke adjust		-	-	-	-
SERVOWAVE mechanism		-	-	-	-
Clamp band	Open clamp	X	X	X	-
	I-SPEC II	X	-	X	-
	I-SPEC	-	X*	-	-
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Steel
	Finish	-	-	-	Plated
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Average weight (kit for front 800 mm, w/160 mm recommend RT, w/lock ring, w/o adapter, w/2 bolts, w/ Resin pad)		108 g**	126 g**	-	-
Note		** single item weight	*I-SPEC B-type ** single item weight	J-Kit spec available * T6000 kit only	

Brake Lever

Series		DEORE XT	DEORE LX	DEORE	DEORE	SHIMANO	SHIMANO
Model no.		BL-T780-B	BL-T670-B	BL-T610	BL-T611	BL-T4000	BL-T4010
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
Compatible brake type	V-BRAKE	X*	X*	X	X*	X	X*
	Mechanical disc brake (MTB)	X*	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-PM70	-	SM-PM40
	Mechanical disc brake (MTB)	SM-PM50	SM-PM50	-	SM-PM50	-	SM-PM50
Clamp band	Open clamp band	X	X	X	X	-	-
	I-SPEC	X**	X**	X**	X**	-	-
	Diameter (mm)	22.2	22.2	22.2	22.2	22.2	22.2
Internal bumper stop		X	X	X	X	X	X
Lever size (Finger)		3	3	2	3	2	3
Brake cable type		T-type	T-type	T-type	T-type	T-type	T-type
Power adjuster		-	-	-	-	-	-
SERVO WAVE		-	-	-	-	-	-
Reach adjust		X	X	X	X	X	X
Cable adjust		X	X	X	X	X	X
Cable adjust type		One 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	Anodized	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Stainless clamp bolt		X	X	X	X	X	X
Average weight (pair)		196.6 g	211.2 g	-	-	-	-
Note		For Trekking * POWER MODULATOR must be used for front brake **I-SPEC B-type	For Trekking * POWER MODULATOR must be used for front brake **I-SPEC B-type	For Cross bike, **I-SPEC B-type	For Trekking * POWER MODULATOR must be used for front brake **I-SPEC B-type		* POWER MODULATOR must be used for front brake

SL

BL

BL

ST

RD

FD

BR

BR

FC

HB

FH

Shifting/Brake Lever

Series		ALIVIO	ALIVIO	ACERA	ACERA		
Model no.		ST-T4000-R	ST-T4000-L	ST-T3000-R	ST-T3000-L		
Color	1	Black	Black	Series color	Series color		
	2	Silver	Silver	-	-		
Shifting lever	Shifter type		TAP FIRE Plus	TAP FIRE Plus	TAP FIRE Plus	TAP FIRE Plus	
	Front speeds		-	3	-	3	
	Rear speeds		9	-	9	-	
	Compatible RD Type		MTB 9-speed RD	-	MTB 9-speed RD	-	
	SL position adjust		-	-	-	-	
	SL cable adjust		X	X	X	X	
	2/3 mode converter		-	-	-	-	
	Max. multiple shifts(Main lever / rear)		3	-	3	-	
	Release function	MULTI RELEASE		-	-	-	-
		INSTANT RELEASE		-	-	-	-
		2WAY-RELEASE		-	-	-	-
	Optical Gear Display	With		X	X	X	X
		With (removable)		-	-	-	-
		Without		-	-	-	-
	Multi-Bearing construction		-	-	-	-	
	Main lever body	Material	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	
		Finish	-	-	-	-	
	Release lever body	Material	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	
		Finish	-	-	-	-	
	Shifting lever cable	Material	Stainless steel	Stainless steel	Steel**	Steel**	
		Finish	Standard	Standard	Standard	Standard	
	Recommended shifting lever outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	
	Brake lever	Compatible brake type	V-BRAKE	X*	X*	X*	X*
Mechanical disc brake (MTB)			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	SM-PM40	SM-PM40	SM-PM40	SM-PM40	
		Mechanical disc brake (MTB)	SM-PM50	SM-PM50	SM-PM50	SM-PM50	
Clamp band		Open clamp band	-	-	-	-	
Internal bumper stop		X	X	X	X		
Lever size (Finger)		3	3	3	3		
Brake cable type		T-type	T-type	T-type	T-type		
Power adjuster		-	-	-	-		
SERVOWAVE		-	-	-	-		
Reach adjust		X	X	X	X		
Cable adjust		X	X	X	X		
Cable adjust type		Two hand	Two hand	Two hand	Two hand		
Brake lever		Material	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized		
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum		
		Finish	Painted	Painted	Painted		
Clamp bolt	Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel		
		Finish	-	-	-		
Average weight		-	-	-	-		
Note		* POWER MODULATOR must be used for front brake	* POWER MODULATOR must be used for front brake	* POWER MODULATOR must be used for front brake **Stainless steel option available	* POWER MODULATOR must be used for front brake **Stainless steel option available		

Rear Derailleur

Series		DEORE XT	DEORE LX	DEORE	ALIVIO	ACERA
Model no.		RD-T8000-SGS	RD-T670-A-SGS	RD-T6000-SGS	RD-T4000	RD-T3000
Pulley cage		SGS	SGS	SGS	SGS	SGS
Color	1	Series color	Silver	Series black	Black	Black
	2	-	Black	Series silver	Silver	Silver
Rear speeds		10	10	10	9	9
Compatible chain		HG-X 10-speed	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	X
Mount	Direct attachment (Conventional)	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
Max. front difference		22T	22T	22T	22T	22T
Total capacity		47T	45T	47T	45T	45T
Low sprocket	Max.	36T	34T	36T	34T	34T
	Min.	32T	28T	32T	28T	28T
Top sprocket	Max.	11T	12T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T
Fluoric coated link bushings		4	2	3	2	1
Pulley	G pulley bearing	Sealed Bearing	-	-	-	-
	T pulley bearing	Sealed Bearing	-	-	-	-
	Teeth	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
	Sunken type pulley bolt	X	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	Stainless steel
	Finish	-	-	-	-	-
B-Axle 2	Hollow axle	X	-	X	-	-
	Material	Stainless steel	-	Stainless steel	-	-
	Finish	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
P-Axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	Painted	Painted
Plate body	Material	Aluminum	Aluminum	GFRP	Resin	Resin
	Finish	Painted	Painted	-	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Aluminum	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Cable fixing Bolt	Material	Stainless steel	Stainless steel	Steel	Stainless steel	Stainless steel
	Finish	Plated	Plated	Plated	-	-
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Stainless steel	Steel
	Finish	Plated	Plated	Plated	-	Plated
Average weight (pc)		253 g	275 g	-	-	-
Note		*Possible to attach to Direct Mount in case bracket is removed.		*Possible to attach to Direct Mount in case bracket is removed.		

Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE LX	DEORE LX	DEORE LX	
Model no.		FD-T8000-H-3	FD-T8000-L-3	FD-T8000-L-6	FD-T670-3	FD-T670-6	FD-T671-3	
Color	1	Series color	Series color	Series color	Black	Black	Black	
	2	-	-	-	Silver	Silver	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	-	-	-	-	-	-	
Chain line (mm)		50	50	50	50	50	50	
Chain stay angle		63-66	63-66	66-69	63-66	66-69	63-66	
Top gear teeth		48T	48T	48T	44/48T	44/48T	44/48T	
Total capacity		22T	22T	22T	22T	22T	22T	
Applicable Top-Mid tooth difference		12T	12T	12T	12T	12T	12T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		-	-	-	-	-	-	
Angled clamp band design		X	X	X	X	X	X	
Link bushings		8	2	2	2	2	8	
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	Steel	Steel	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)		169 g	155 g	155 g	157 g	157 g	172 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		DEORE	DEORE	DEORE	ALIVIO	ALIVIO	ALIVIO	
Model no.		FD-T6000-H3	FD-T6000-L3	FD-T6000-L6	FD-T4000-TS3	FD-T4000-TS6	FD-T4000-DS3	
Color	1	Series black	Series black	Series black	Series color	Series color	Series color	
	2	Series silver	Series silver	Series silver	-	-	-	
Speeds	Front	3	3	3	3	3	3	
	Rear	10	10	10	9	9	9	
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	
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	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	-	-	-	-	-	-	
Chain line (mm)		50	50	50	50	50	50	
Chain stay angle		63-66	63-66	66-69	63-66	66-69	63-66	
Top gear teeth		44/48T	44/48T	44/48T	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	-	-	2	
Front clamp band	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel	
	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	Steel	Steel	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	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								

Front Derailleur

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

Brake (Hydraulic disc brake)

Series		DEORE LX
Model no.		BR-T675
Color	1	Black
	2	Silver
	3	-
Brake type		Hydraulic disc brake
Brake hose (kit)		SM-BH90-SS
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
J-Kit spec (for OEM)		X
ICE-TECHNOLOGIES pad compatible caliper		-
Pad	Standard 1	B01S Resin
	Standard 2	-
	Option 1	-
	Option 2	-
Recommended brake lever		BL-T675
Recommended brake rotor		SM-RT54 SM-RT66
Oil		SHIMANO Mineral
ONE WAY BLEEDING		X
Mount type (available for IS mount with mount adapter)		Post-type
Piston		2
Piston material		Resin
Caliper	MONO-BODY	-
	Material	Aluminum
	Finish	Painted
Caliper fixing bolt	Material	Stainless steel
	Tool size	5mm
	Anti loosen method	Snap ring
Pad mount		Split pin
Average weight (kit for front 800mm, w/160mm recommend RT, w/lock ring, w/o adapter, w/2bolts, w/ Resin pad)		134 g**
Note		** single item weight

Brake (V-BRAKE)

Series		DEORE XT	DEORE LX	DEORE	SHIMANO	SHIMANO
Model no.		BR-T780	BR-T670	BR-T610	BR-T4010	BR-T4000
Color	1	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-
Brake type		V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE
Brake shoe	Standard 1	S70C	S70C	S70C	S70C	S65T
	Standard 2	M70CT4	M70CT4	M70CT4	-	-
	Option 1	-	M70T3	S70T	M70R2	M65T4
	Option 2	-	-	-	-	M65T3
Cartridge shoe holder		X	X	X	X (alloy)	-
Arch size (mm)		103	107	107	107	107
Spacer type	X type	X	X	X	X	X
	Y type	X	X	X	X	X
Compatible lead pipe angle (deg.)		45/90/135	45/90/135	45/90/135	45/90/135	45/90/135
Sleeve & Bushing axle		X	X	X	X	X
V-arm/Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted
	Light weight link	X	X	-	-	-
Cover	Material	Aluminum	Aluminum	Aluminum	-	-
	Finish	Anodized	Anodized	Painted	-	-
Fixing bolt length (mm)	16	X	X	X	X	X
	25	X	X	X	X	X
Fixing bolt	Material	Stainless steel	Stainless steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Zn plated	Zn plated
	Chamfered bolt	X	X	X	-	-
POWER MODULATOR		X (OPTION SM-PM70)	X (OPTION SM-PM70)	SM-PM70	SM-PM40	SM-PM40
Linear spring		X	X	X	X	X
Stainless cable fixing bolt		X	-	-	-	-
Average weight		174 g	176 g	-	-	-
Note						

SL

BL

BL

ST

RD

FD

BR

BR

FC

HB

FH

Crankset

Series		DEORE XT	DEORE LX	DEORE	SHIMANO	SHIMANO	ALIVIO
Model no.		FC-T8000	FC-T671	FC-T6010	FC-T551	FC-T521	FC-T4060
Color	1	Series color	Black	Series black	Black	Black	Black
	2	-	Silver	Series silver	Silver	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 for 9-speed
Chain line (mm)		50	50	50	50	50	50
P.C.D. (mm)		104/64	104/64	104/64	104/64	104/64	104/64
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Chain ring combination		48-36-26T	48-36-26T 44-32-24T	48-36-26T	48-36-26T 44-32-24T	48-36-26T 44-32-24T	48-36-26T 44-32-22T
Q-factor (mm)		176	181.7	181.5	181.1	185.8	181.7
Crank arm length (mm)	165.0	-	-	-	-	-	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
Crank arm fixing bolt	With	-	-	-	-	X	-
	Without	X	X	X	X	-	X
HOLLOWTECH II		X	X	X	-	-	-
2-PIECE CRANKSET		-	-	-	X	-	X
HOLLOWTECH crank arm		-	-	-	-	X	-
OCTALINK		-	-	-	-	X	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	X	X	-	X
	OCTALINK	-	-	-	-	X	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	BB-MT800	SM-BB70	SM-BB52	SM-BB52	BB-ES300	SM-BB52
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	SM-BB70	SM-BB52	SM-BB52	BB-ES300-AK	SM-BB52
	Pressfit	BB-MT800-PA	-	BB-MT500-PA	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	121-AK	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	121-AK	-
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	Anodized	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	-	Steel
	Finish	Plated	Plated	Plated	Plated	-	Plated
Spider arm	Material	Aluminum	-	Aluminum	-	Aluminum	-
	Finish	Painted	-	Painted	-	Painted	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Middle ring	Material	Aluminum	Aluminum (48-36-26T) Steel +GF composite (44-32-24T)	Steel	Aluminum (48-36-26T) Steel +GF composite (44-32-24T)	Steel (48-36-26T) Steel +GF composite (44-32-24T)	Steel
	Finish	Plated	Plated	Painted	Plated	Painted	Painted
Inner ring	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Painted	Painted	Plated	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
Crank fixing bolt included		-	-	X	-	X	X
Average weight (175mm, w/o BB)		868 g (48-36-26T)	992 g (48-36-26T) 958 g (44-32-24T)	-	-	-	-
Note			4 arm integrated crank arm w/o CG spec available				

Crankset

Series		SHIMANO	SHIMANO
Model no.		FC-T4010	FC-T3010
Color	1	Black	Black
	2	Silver	Silver
Rear speeds		9	9
Compatible chain		HG for 9-speed	HG for 9-speed
Chain line (mm)		50	50
P.C.D. (mm)		104/64	104/64
Gear arms		4arm	4arm
Chain ring combination		48-36-26T 44-32-22T	48-36-26T 44-32-22T
Q-factor (mm)		187.8	187.3
Crank arm length (mm)	165.0	X	X
	167.5	-	-
	170.0	X	X
	172.5	-	-
	175.0	X	X
	177.5	-	-
Optional chain guard	With bash guard	-	-
	With chain guard	X	X
	Without chain / bash guard	X	X
Crank arm fixing bolt	With	X	X
	Without	-	-
HOLLOWTECH II		-	-
2-PIECE CRANKSET		-	-
HOLLOWTECH crank arm		-	-
OCTALINK		X	-
HOLLOWGLIDE		-	-
Compatible BB type	Outboard	-	-
	OCTALINK	X	-
	Square	-	X
Recommended BB	Threaded (normal)	BB-ES300	BB-UN26
	Threaded (E-type)	-	-
	Threaded (chain case)	BB-ES300-AK	BB-UN26-K
	Pressfit	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	126	LL123
	Threaded (E-type)	-	-
	Threaded (chain case)	126-K	LL123-K
Threaded BB shell width	68mm	X	X
	73mm	X	X
	83mm	-	-
Chain case compatible		X	X
Crank arm	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Crank axle	Material	-	-
	Finish	-	-
Spider arm	Material	Aluminum	-
	Finish	Painted	-
Spider arm cover	Material	-	-
	Finish	-	-
Outer ring	Material	Steel	Steel
	Finish	Painted	Painted
Middle ring	Material	Steel	Steel
	Finish	Painted	Painted
Inner ring	Material	Steel	Steel
	Finish	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	- (48-36-26T) X (44-32-22T)
Crank fixing bolt included		X	X
Average weight (175mm, w/o BB)		-	-
Note			

Front Hub (Rim/Disc Brake)

Series		DEORE XT	DEORE LX	DEORE LX	DEORE	SHIMANO	SHIMANO
Model no.		HB-T780	HB-T670	HB-T675	HB-T610	HB-T4000	HB-T3000
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
Brake Type		Rim brake	Rim brake	CENTER LOCK disc brake	Rim brake	Rim brake	Rim brake
O.L.D. (mm)		100	100	100	100	100	100
Spoke hole	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
External serration rotor lock ring	with	-	-	-	-	-	-
	without	-	-	-	-	-	-
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle	Fixing method		QR	QR	QR	QR	QR
	QR skewer length (mm)	129	-	-	-	-	-
		133	X	X	X	X	X
	Thru Axle Length x Inner Diameter (mm)	100 x 15	-	-	-	-	-
		110 x 15	-	-	-	-	-
110 x 20		-	-	-	-	-	
Flange distance (mm)		71.6	71.6	60.2	71.6	71.6	71.6
Offset (mm)		0	0	5.3	0	0	0
P.C.D. Left / Right (mm)		40	38	44	40/40	38/38	38/38
Flange diameter (mm)		50.4	48.4	52.8/51.4 (L/R)	48.4	48.4	48.4
Seal		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact
Internal grease sleeve		X	X	-	-	-	-
Bearing	Stainless ball		-	-	-	-	-
	Cup		-	-	-	-	-
	Cone		CBN	CBN	CBN	CBN	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Anodized	-	-	-	-	-
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Painted	Barrel	Plated
	Color	Black	Black (Black) Silver (Silver)	Black (Black) Silver (Silver)	Black	Black	Black
QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Painted	Plated	Plated
QR nut	Material	Resin & steel	Resin & steel	Resin & steel	Resin & steel	Resin & steel	Resin & steel
	Finish	-	-	-	-	-	-
Rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight		153 g	161 g	192 g	-	-	-
Note							

FREEHUB (Rim/Disc Brake)

Series		DEORE XT	DEORE LX	DEORE LX	DEORE	SHIMANO	SHIMANO	
Model no.		FH-T780	FH-T670	FH-T675	FH-T610	FH-T4000	FH-T3000	
Color	1	Black	Black	Black	Black	Black	Black	
	2	Silver	Silver	Silver	Silver	Silver	Silver	
Brake Type		Rim	Rim	CENTER LOCK disc brake	Rim	Rim	Rim brake	
Speeds		8-10 speed	8-10 speed	8-10 speed	8-10 speed	8/9 speed	8/9 speed	
O.L.D. (mm)		135	135	135	135	135	135	
Spoke hole	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	X	X	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	
	QR skewer length (mm)	166	-	-	-	-	-	X
		168	X	X	X	X	X	-
		170	-	-	-	-	-	X
		173	X	X	X	X	X	-
	Thru Axle Length x Inner Diameter (mm)	135 x 10	-	-	-	-	-	-
		135 x 12	-	-	-	-	-	-
		142 x 12	-	-	-	-	-	-
		148 x 12	-	-	-	-	-	-
		150 x 12	-	-	-	-	-	-
Flange distance (mm)		57.4	59.2	57.4	59.2	59.2	59.2	
Offset (mm)		6.6	7.6	6.6	7.8	7.6	7.5	
P.C.D. Left/Right (mm)		44/45	45	44/45	44/45	45/45	45/45	
Flange diameter Left/Right (mm)		52.8/53.8	53.8	52.8/53.8	53.8	53.8	53.8	
Quick engagement		X (36points/360°)	-	-	-	-	-	
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact	
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	-	
Internal grease sleeve		X	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	Aluminum	Steel	Steel	Steel	Steel	Steel	
	Finish	Anodized	-	-	-	-	-	
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel	
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Plated	
	Color	Black	Black (Black) Sliver (Silver)	Black (Black) Sliver (Silver)	Black	Black	Black	
QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel	
	Finish	Anodized	Anodized	Anodized	Painted	Plated	Plated	
QR nut	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin + Steel	Steel + Resin	
	Finish	-	-	-	-	-	-	
Rotor lock ring	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Average weight* *w/o axle, QR nor locking		338 g	365 g	369 g	-	-	-	
Note								

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Internal Geared Hub

Series		ALFINE	ALFINE	NEXUS	NEXUS	NEXUS	NEXUS
Function name		INTER-11	INTER-8	INTER-8	INTER-8	INTER-8	INTER-8
Model no.		SG-S7001-11	SG-S7001-8	SG-C6011-8R	SG-C6011-8V	SG-C6001-8R	SG-C6001-8V
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	INTER-M	V-BRAKE	INTER-M	V-BRAKE
	Recommended Model	-	BR-S700	BR-C6000 BR-C3010 BR-C3000	-	BR-C6000 BR-C3010 BR-C3000	-
Speeds		11-speed	8-speed	8-speed	8-speed	8-speed	8-speed
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		Top Normal	Top 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	High	High	Standard	Standard
w/ Left hand dust cap		-	-	-	X	-	X
O.L.D. (mm)		135	135	132	132	132	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	-	-	40H	-	40H	-
Axle length (mm)	182	-	-	-	-	-	-
	184	-	-	X	X	X	X
	187	X	X	-	-	-	-
	193	-	-	-	-	-	-
	Others	-	-	-	-	203	203
Flange distance (mm)		57.3	57.3	58.3	58.3	58.3	58.3
Flange diameter (mm)		104.3	104.3	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset (mm)		3.15	3.15	2.7	2.7	2.7	2.7
P.C.D Left / Right. (mm)		92.6	92.6	92.6	92.6	92.6	92.6
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Average weight		1,665 g	1,670 g	1,660 g	1,685 g	1,710 g	1,735 g
Note		-	-	-	-	-	-

Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Function name		INTER-8	INTER-8	INTER-8	INTER-7	INTER-7	INTER-7
Model no.		SG-C6001-8C	SG-C6001-8D	SG-C6001-8CD	SG-C3001-7R	SG-C3001-7C	SG-C3001-7C-DX
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Brake Type	Mount Type	Coaster Brake	CENTER LOCK disc brake	Coaster and Special disc brake mount for SM-RTC60	INTER-M	Coaster	Coaster
	Recommended Model	-	-	-	BR-C3010 BR-C3000	-	-
Speeds		8-speed	8-speed	8-speed	7-speed	7-speed	7-speed
Gear ratio	Total	307%	307%	307%	244%	244%	244%
	1	0.527	0.527	0.527	0.632	0.632	0.632
	2	0.644	0.644	0.644	0.741	0.741	0.741
	3	0.748	0.748	0.748	0.843	0.843	0.843
	4	0.851	0.851	0.851	0.989	0.989	0.989
	5	1	1	1	1.145	1.145	1.145
	6	1.223	1.223	1.223	1.335	1.335	1.335
	7	1.419	1.419	1.419	1.545	1.545	1.545
	8	1.615	1.615	1.615	-	-	-
	9	-	-	-	-	-	-
	10	-	-	-	-	-	-
11	-	-	-	-	-	-	
Shifting structure		Low Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal
Silent clutch		X	X	X	-	-	-
Gear change support mechanism		X	X	X	-	-	-
Shifting POWER MODULATOR		X	X	X	-	-	-
Driving efficiency		Standard	Standard	Standard	Standard	Standard	Standard
w/ Left hand dust cap		-	-	-	-	-	-
O.L.D. (mm)		132.3	135	135	130	127	127
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
Flange distance (mm)		58.3	57.3	58.3	54.6	56.2	56.2
Flange diameter (mm)		105.2	105.2	105.2	99.6	92.5	92.5
Flange width (mm)	Right	3.2	3.2	3.2	3.2	2.3	2.3
	Left	3.2	3.2	3.2	3.2	2.7	2.7
Offset (mm)		2.55	3.4	2.7	3.85	4.6	4.6
P.C.D Left / Right. (mm)		92.6	92.6	92.6	87	83.5	83.5
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Plated	Plated+ Painted(clear)
Average weight		2,040 g	1,730 g	2,090 g	1,495 g	1,915 g	1,915 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
Function name		INTER-7	INTER-5	INTER-5	INTER-5	INTER-5	INTER-3
Model no.		SG-C3001-7D	SG-5R30	SG-5R30-VS	SG-5R35	SG-5R35-VS	SG-3R75-B
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	-	-	Black	Black	-
	3	-	-	-	-	-	-
Brake Type	Mount Type	CENTER LOCK disc brake	INTER-M	V-BRAKE	INTER-M	V-BRAKE	INTER-M
	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		7-speed	5-speed	5-speed	5-speed	5-speed	3-speed
Gear ratio	Total	244%	206%	206%	206%	206%	158%
	1	0.632	0.750	0.750	0.750	0.750	0.632
	2	0.741	1.001	1.001	1.001	1.001	0.741
	3	0.843	1.159	1.159	1.159	1.159	1.000
	4	0.989	1.335	1.335	1.335	1.335	-
	5	1.145	1.545	1.545	1.545	1.545	-
	6	1.335	-	-	-	-	-
	7	1.545	-	-	-	-	-
	8	-	-	-	-	-	-
	9	-	-	-	-	-	-
	10	-	-	-	-	-	-
Shifting structure		Low Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal
Silent clutch		-	X	X	X	X	X
Gear change support mechanism		-	-	-	-	-	-
Shifting POWER MODULATOR		-	-	-	-	-	-
Driving efficiency		Standard	Standard	Standard	Standard	Standard	HIGH
w/ Left hand dust cap		-	-	X	-	X	-
O.L.D. (mm)		135	132	132	132	132	122
Spoke size		#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14
Spoke hole	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	-
	36H	X	X	X	X	X	X
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	-	-	-
	184	-	X	X	X	X	-
	187	X	-	-	-	-	-
	193	-	-	-	-	-	X
	Others	-	210/215	210	-	-	174/198/200
Flange distance (mm)		54.6	54.6	54.6	54.6	54.6	51.1
Flange diameter (mm)		99.6	86	86	88.6	86	92.5
Flange width (mm)	Right	3.2	2.3	2.3	3.4	2.3	2.3
	Left	3.2	2.5	2.5	3.6	2.5	2.7
Offset (mm)		2.5	0.3	0.3	0.3	0.3	3.6
P.C.D Left / Right. (mm)		87	76	76	76	76	83.5
Hub shell	Material	Aluminum	Steel	Steel	Aluminum	Aluminum	Steel
	Finish	Painted	Plated	Plated	Painted	Painted	Plated
Average weight		1,470 g	1,305 g	1,330 g	1,230 g	1,255 g	1,315 g
Note		-	*Japan market only	*Japan market only	*Japan market only	*Japan market only	-

Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS	NEXUS
Function name		INTER-3	INTER-3	INTER-3	INTER-3
Model no.		SG-3R40	SG-3R42	SG-3C41	SG-3D55
Color	1	Silver	Silver	Silver	Silver
	2	-	-	-	Black
	3	-	-	-	-
Brake Type	Mount Type	INTER-M	INTER-M	Coaster	CENTER LOCK disc brake
	Recommended Model	BR-C3010 BR-C3000 BR-IM31 (specification for Japan)	BR-C3010 BR-C3000 BR-IM31 (specification for Japan)	-	-
Speeds		3-speed	3-speed	3-speed	3-speed
Gear ratio	Total	186%	186%	186%	186%
	1	0.733	0.733	0.733	0.733
	2	1.000	1.000	1.000	1.000
	3	1.360	1.360	1.360	1.360
	4	-	-	-	-
	5	-	-	-	-
	6	-	-	-	-
	7	-	-	-	-
	8	-	-	-	-
	9	-	-	-	-
	10	-	-	-	-
11	-	-	-	-	
Shifting structure		Low Normal	Low Normal	Low Normal	Low Normal
Silent clutch		-	-	-	X
Gear change support mechanism		X	X	X	X
Shifting POWER MODULATOR		X	X	X	X
Driving efficiency		Standard	Standard	Standard	Standard
w/ Left hand dust cap		120/127/130	-	120/127	-
O.L.D. (mm)		120.4/126.8	120	120/127.4	135
Spoke size		#13 / #14	#13 / #14	#13 / #14	#13 / #14
Spoke hole	28H	X	X	X	-
	32H	X	-	-	X
	36H	X	X	X	X
	Others	-	-	-	-
Axle length (mm)	182	X	X	-	-
	184	X	-	-	-
	187	-	-	-	-
	193	-	-	-	X
	Others	170/177/189/192	192	168/175/178	-
Flange distance (mm)		53	53	57.5	53.5
Flange diameter (mm)		84	70	67.5	77.6
Flange width (mm)	Right	2.3	3.0	2.3	3.2
	Left	2.3	3.0	2.3	3.2
Offset (mm)		0.8	0.8	1.2	1.67
P.C.D Left / Right. (mm)		74	60	59	65
Hub shell	Material	Steel	Steel	Steel	Aluminum
	Finish	Plated	Plated	Plated	Painted
Average weight		885 g	872 g	1,120 g	945 g
Note		-	Specification for Japan market	-	-

SG

CT

CS

SL

SB

BL

BL

BR

BR

FC

HB

FH

FH

HP

EW

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
Model no.		CS-S500
Chain Guard	with	X
	without	X
Gear teeth	14T	-
	16T	-
	17T	-
	18T	X (w/ and w/o guard)
	19T	-
	20T	X (w/ and w/o guard)
	21T	-
	22T	-
	23T	-
	27T	-
Gear thickness (mm)		2.0
Recommended chain	Super Narrow HG-X 10-speed	X
	Super Narrow HG 9-speed	X
	HG 8-speed (1/2"x3/32")	-
	1/2"x1/8"	-
Gear	Material	Steel
	Finish	Chrome plated
Note		

Shifting Lever

Series	ALFINE	ALFINE	ALFINE	NEXUS	NEXUS	NEXUS
Model no.	SL-S700	SL-S7000-8	SL-S503	SL-7S50	SL-C6000-8	SL-C3000-7
Color	1	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black
	3	-	-	-	-	-
Shifter type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT
Top-Normal	X	X	-	-	-	-
Speeds	11	8	8	7	8	7
Compatible internal geared hub type	SG-S7001-11	SG-S7000-8, SG-S7001-8	SG-S501, NEXUS INTER-8	NEXUS INTER-7	NEXUS INTER-8	NEXUS INTER-7
I-SPEC compatible	-	-	-	-	-	-
Shifting lever position adjust	-	-	-	-	-	-
Shifting lever cable adjust	X	X	X	X	X	X
Max. multiple shifts	2	1	1	1	7	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	Aluminum	Resin
	Finish	Painted	Painted	Painted	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
	Finish	-	-	-	-	-
Shifting lever cable	Material	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
Note						

Series	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.	SL-S550	SL-S530	SL-S530-A	SL-3S42E	SL-3S41E	SL-3S35E
Color	1	Silver	Silver	-	-	-
	2	Black	Black	Black	Black	Black
	3	-	White	White	-	-
Shifter type	RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Top-Normal	-	-	-	-	-	-
Speeds	5	5	5	3	3	3
Compatible internal geared hub type	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3
I-SPEC compatible	-	-	-	-	-	-
Shifting lever position adjust	-	-	-	-	-	-
Shifting lever cable adjust	X	X	X	-	-	-
Max. multiple shifts	1	4	4	2	2	2
Release function	MULTI RELEASE	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-
	2WAY-RELEASE	-	-	-	-	-
OPTICAL GEAR DISPLAY	Window	Window	Window	Window	Window	Dial
LED Positioning Light	-	-	-	-	-	-
Multi-Bearing Construction	-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Resin	Resin	Resin	Aluminum
	Finish	Painted	Resin	Resin	Resin	Painted
Main lever body	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Release lever body	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-
Recommended Shifting lever Outer Casing	OT-SP40	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
Note						

Shifting Lever

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SL-3558 J	SL-3542 J	SL-3543 J	SL-3590	SL-3591J
Color	1	Silver	Silver	Silver	Gray	-
	2	Black	Black	Black	Black	-
	3	White	-	White	-	White
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	Piano-touch	Piano-touch
Top-Normal		-	-	-	-	-
Speeds		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
I-SPEC compatible		-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-
Shifting lever cable adjust		-	-	-	-	-
Max. multiple shifts		2	2	2	2	2
Release function	MULTI RELEASE	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-
	2WAY-RELEASE	-	-	-	-	-
OPTICAL GEAR DISPLAY		Window	Window	Window	Dial	Dial
LED Positioning Light		-	-	-	-	-
Multi-Bearing Construction		-	-	-	-	-
Shifting lever bracket	Material	Resin	Resin	Resin	Steel	Steel
	Finish	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
	Finish	-	-	-	-	-
Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	Standard	Standard
Recommended Shifting lever Outer Casing		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
Note		Specification for Japan market	Specification for Japan market	Specification for Japan market	Specification for Japan market	Specification for Japan market

REVOSHIFT shifter integrated with brake lever

Series		NEXUS	NEXUS
Model no.		SB-C6000-8	SB-C3000-7
Color	1	Silver	Silver
	2	Black	Black
	3	-	-
Shifter type		REVOSHIFT	REVOSHIFT
Top-Normal		-	-
Speeds		8	7
Compatible internal geared hub type		NEXUS INTER-8	NEXUS INTER-7
I-SPEC compatible		-	-
Shifting lever position adjust		-	-
Shifting lever cable adjust		X	X
Max. multiple shifts		7	6
Release function	MULTI RELEASE	-	-
	INSTANT RELEASE	-	-
	2WAY-RELEASE	-	-
OPTICAL GEAR DISPLAY		Window	Window
LED Positioning Light		-	-
Multi-Bearing Construction		-	-
Shifting lever bracket	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Main lever body	Material	-	-
	Finish	-	-
Release lever body	Material	-	-
	Finish	-	-
Base cover	Material	Resin	Resin
	Finish	-	-
Shifting lever cable	Material	OPTISLICK	OPTISLICK
	Finish	-	-
Recommended shifting lever Outer Casing		SP41 Sealed	SP41 Sealed
Stainless clamp bolt		-	-
Brake lever integrated		X	X
Brake Lever Size		4-Finger	4-Finger
Left Hand Brake Lever		BL-C6010	BL-C6010
Clamping Diameter (mm)		22.2	22.2
Note			

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	
	Material	Aluminum
Brake lever	Finish	Anodized
	Material	Aluminum
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 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-C6000-F	BR-C6000-R	BR-C3010-F	BR-C3010-R	BR-C3000-F	BR-C3000-R
Front	X	-	X	-	X	-
Rear	-	X	-	X	-	X
Structure type	Hyper	Hyper	Normal	Normal	Normal	Normal
Braking power (*1)	1.5	1.2	1.2	1	1.2	1
Cooling fin diameter (mm)	150	150	140	140	122	122
Heat dissipation (*1)	1.4	1.4	1.2	1.2	1.0	1.0
Without cooling fin	-	-	-	-	-	-
Inner cable quick release	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
Model no.	BR-C2050-R	BR-IM31-F	BR-IM31-R
Front	-	X	-
Rear	X	-	X
Structure type	Hyper	Normal	Normal
Braking power (*1)	1.2	0.9	0.9
Cooling fin diameter (mm)	150	90	90
Heat dissipation (*1)	1.4	Less than 1	Less than 1
Without cooling fin	-	-	Available
Inner cable quick release	-	-	-
Disc brake mount compatible	-	-	-
Note *1 Performance index rating uses BR-C3000-R brake unit as a reference value of 1. Testing condition.	Specification for Japan market	Specification for Japan market	Specification for Japan market

Crankset

Series		ALFINE	NEXUS
Model no.		FC-S501	FC-C6000
Color	1	Silver	Silver
	2	Black	Black
	3	-	-
Chain ring 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
Crank arm fixing bolt	with	X	X
	without	-	-
Chain line (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
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	Silver	Silver
	2	-	-
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	-
	Color	Silver	-
Structure (Braking power)		Hyper	Normal
Note			

FREEHUB (Roller Brake)

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

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FREEHUB (Band Brake)

Series		SHIMANO
Model no.		FH-S028
Color		Black
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		

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Electric Wire

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		EW-NX30	EW-NX30	EW-NX30	EW-NX30	EW-NX30	EW-NX30	
Number of branch		Converter-1	Converter-2	Converter-3	2	2	3	
Distributor		-	-	-	X	X	X	
Electric wire color	Black	X	X	X	X	X	X	
	Gray	-	-	-	-	-	-	
Length (mm)	Cord to SL / SM-R	Length	-	-	-	-	175	
		EZ cable clamp	-	-	-	-	-	2
	Cord to SM / SM-L	Length	-	-	-	-	-	65
		EZ cable clamp	-	-	-	-	-	1
	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	570	570
		EZ cable clamp	-	-	-	1	1	1
Cord to Rear LP	Length	-	-	-	270	270	-	
	EZ cable clamp	-	-	-	2	2	-	
Cord to Dynamo	Length	-	-	-	800	1000	800	
	EZ cable clamp	-	-	-	-	-	-	
Cord for converter	Length	50	50	50	-	-	-	
	EZ cable clamp	-	-	-	-	-	-	
Usage		Converter between EWNX60 (with pin hole) connector and EWNX30 (with pin) connector	Converter between front light tab on and EWNX30 (with pin) connector	Converter between EWNX30 (with pin hole) connector and EWNX60 (with pin) connector	Auto light + LP-RTX2 combination	Auto light + LP-RTX2 combination	Auto light + SL/ SMRS34 combination	
Note								

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		EW-NX30	EW-NX30	EW-NX30
Number of branch		3	4	4
Distributor		X	X	X
Electric wire color	Black	X	X	X
	Gray	-	-	-
Length (mm)	Cord to SL / SM-R	Length	175	175
		EZ cable clamp	2	2
	Cord to SM / SM-L	Length	215	65
		EZ cable clamp	2	1
	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	570
		EZ cable clamp	1	1
Cord to Rear LP	Length	-	270	
	EZ cable clamp	-	2	
Cord to Dynamo	Length	1000	800	
	EZ cable clamp	-	-	
Cord for converter	Length	-	-	
	EZ cable clamp	-	-	
Usage		Auto light + SL/ SMRS34 combination	PHF combination (Auto light + SL/ SMRS34 + LP-RTX2)	PHF combination (Auto light + SL/ SMRS34 + LP-RTX2)
Note				

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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		ULTEGRA	ULTEGRA	105	105	105	TIAGRA	
Model no.		ST-6700	ST-6703	ST-5800	ST-5700	ST-5703	ST-4700-R	
Color	1	Series color	Series color	Black	Silver	Silver	Series color	
	2	-	-	Silver	Black	Black	-	
Bracket cover color	1	Black	Black	Black	Black	Black	Black	
	2	White	White	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	3	2	2	3	-	
	Rear speeds	10	-	11	10	-	10	
	OPTICAL GEAR DISPLAY	-	-	-	-	-	-	
	FLIGHT DECK	X	X	-	-	-	-	
	Multi-Bearing construction	1	1	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	SIL-TEC	SIL-TEC	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	Spacer Use	Spacer Use	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	-	-	-	
	NEW SUPER SLR	X	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	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Silver: Clear Coated Black Paint	Silver: Clear Coated Black Paint	Painted	
Average weight		447 g/Pair	460 g/Pair	486 g/Pair	490 g/Pair	507 g/Pair	-	
Note								

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Shifting/Brake Lever

Series		TIAGRA	TIAGRA	TIAGRA	TIAGRA	SHIMANO	SORA	
Model no.		ST-4700-L	ST-4703-L	ST-4600	ST-4603	ST-R460	ST-R3000-R	
Color	1	Series color	Series color	Series color	Series color	Black	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Black	Black	Black	Black	Black	Standard	
	2	-	-	-	-	-	-	
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER (ST-4600 operation style)	DUAL CONTROL LEVER	
Shifting lever	Front speeds	2	3	2	3	2	-	
	Rear speeds	-	-	10	-	10	9	
	OPTICAL GEAR DISPLAY	-	-	X	X	X	-	
	FLIGHT DECK	-	-	-	-	-	-	
	Multi-Bearing construction	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	SP41 Sealed
	Shifting lever cable	Material	SUS	SUS	SUS	SUS	SUS	SUS
		Finish	OPTISLICK	OPTISLICK	-	-	-	OPTISLICK
	Shifting lever cable shipping condition	Not Pre-Assembled	X	X	X	X	X	-
Pre-Assembled		X	X	-	-	-	X	
Brake lever	Reach adjust	screw	screw	Spacer Use	Spacer Use	Spacer Use	Screw	
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
	SLR-EV	-	-	-	-	-	-	
	NEW SUPER SLR	X	X	X	X	X	X	
	SUPER SLR	-	-	-	-	-	-	
Bracket	Cable adjuster bracket	-	-	X	X	-	-	
	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	Clear Coated	Clear Coated	Painted	Painted	
Average weight		-	-	-	-	-	-	
Note				Integrated Cable Adjuster available	Integrated Cable Adjuster available	SHIMANO logo Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE		

Shifting/Brake Lever

Series		SORA	SORA	SORA	SORA	SHIMANO	CLARIS	
Model no.		ST-R3000-L	ST-R3030-L	ST-3500	ST-3503	ST-R353	ST-R2000-R	
Color	1	Series color	Series color	Series color	Series color	Black	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Standard	Standard	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER (ST-3500 operation style)	DUAL CONTROL LEVER	
Shifting lever	Front speeds	2	3	2	3	3	-	
	Rear speeds	-	-	9	-	-	8	
	OPTICAL GEAR DISPLAY	-	-	X	X	X	-	
	FLIGHT DECK	-	-	-	-	-	-	
	Multi-Bearing construction	0	0	-	-	-	-	
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	SP41 Sealed	SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	Shifting lever cable	Material	SUS	SUS	SUS	SUS	SUS	Steel
		Finish	OPTISLICK	OPTISLICK	-	-	SIL-TEC	OPTISLICK
	Shifting lever cable shipping condition	Not Pre-Assembled	-	-	X	X	X	-
Pre-Assembled		X	X	-	-	-	X	
Brake lever	Reach adjust	Screw	Screw	Spacer Use	Spacer Use	Spacer Use	Screw	
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
	SLR-EV	-	-	-	-	-	-	
	NEW SUPER SLR	X	X	X	X	X	X	
	SUPER SLR	-	-	-	-	-	-	
Bracket	Cable adjuster bracket	-	-	X	X	-	-	
	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				Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE Integrated Cable Adjuster available	Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE Integrated Cable Adjuster available	SHIMANO logo Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE		

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Shifting/Brake Lever

Series		CLARIS	CLARIS	CLARIS	CLARIS	CLARIS	TOURNEY	
Model no.		ST-R2000-L	ST-R2030-L	ST-2400-R	ST-2400-L	ST-2403-L	ST-A070	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Black	Black	Black	Black	Black	Black	
	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	3	2	
	Rear speeds	-	-	8	-	-	7	
	OPTICAL GEAR DISPLAY	-	-	X	X	X	X	
	FLIGHT DECK	-	-	-	-	-	-	
	Multi-Bearing construction	-	-	-	-	-	-	
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40
		Rear derailleur side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SIS40
	Shifting lever cable	Material	Steel	Steel	SUS	SUS	SUS	SUS Option
		Finish	OPTISLICK	OPTISLICK	-	-	-	-
	Shifting lever cable shipping condition	Not Pre-Assembled	-	-	X	X	X	X
Pre-Assembled		X	X	-	-	-	-	
Brake lever	Reach adjust	Screw	Screw	Spacer Use	Spacer Use	Spacer Use	Screw	
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
	SLR-EV	-	-	-	-	-	-	
	NEW SUPER SLR	X	X	X	X	X	-	
	SUPER SLR	-	-	-	-	-	X	
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				Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE	Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE	Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE		

Shifting/Brake Lever

Series		TOURNEY	CLARIS	CLARIS	CLARIS	CLARIS	CLARIS	
Model no.		ST-A073-L	ST-RS200-R	ST-RS200-L	ST-RS203-L	ST-R240-R	ST-R240-L	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Black	-	-	-	-	-	
	2	-	-	-	-	-	-	
Lever type		DUAL CONTROL LEVER	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	
Shifting lever	Front speeds	3	-	2	3	-	2	
	Rear speeds	-	8	-	-	8	-	
	OPTICAL GEAR DISPLAY	X	x	x	x	-	-	
	FLIGHT DECK	-	-	-	-	-	-	
	Multi-Bearing construction	-	-	-	-	-	-	
	Outer casing	Lever side	OT-SIS40	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-SIS40	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	Shifting lever cable	Material	SUS Option	Steel	Steel	Steel	SUS	SUS
		Finish	-	OPTISLICK	OPTISLICK	OPTISLICK	-	-
	Shifting lever cable shipping condition	Not Pre-Assembled	X	-	-	-	-	-
Pre-Assembled		-	x	x	x	x	x	
Brake lever	Reach adjust	Screw	x	x	x	x	x	
	Clamp band (mm)	23.8-24.2	22.2	22.2	22.2	22.2	22.2	
	SLR-EV	-	-	-	-	-	-	
	NEW SUPER SLR	-	-	-	-	-	-	
	SUPER SLR	X	x	x	x	X	X	
Bracket	Cable adjuster bracket	-	x	x	x	x	x	
	Material	GFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	GFRP	Painted	Painted	Painted	Painted	Painted	
Main lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Anodized Black	Anodized Black	
Average weight		-	-	-	-	-	-	
Note								

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Shifting/Brake Lever

Series		CLARIS	
Model no.		ST-R243-L	
Color	1	Series color	
	2	-	
Bracket cover color	1	-	
	2	-	
Lever type		RAPIDFIRE PLUS	
Shifting lever	Front speeds		3
	Rear speeds		-
	OPTICAL GEAR DISPLAY		-
	FLIGHT DECK		-
	Multi-Bearing construction		-
	Outer casing	Lever side	OT-SP41
		Rear derailleur side	OT-SP41 Sealed
	Shifting lever cable	Material	SUS
		Finish	-
	Shifting lever cable shipping condition	Not Pre-Assembled	-
Pre-Assembled		x	
Brake lever	Reach adjust		x
	Clamp band (mm)		22.2
	SLR-EV		-
	NEW SUPER SLR		-
	SUPER SLR		X
Bracket	Cable adjuster bracket		x
	Material	Aluminum	
	Finish	Painted	
Main lever	Material	Aluminum	
	Finish	Anodized Black	
Average weight		-	
Note			

Shifting/Brake Lever (Hydraulic disc brake)

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	SHIMANO	SHIMANO	
Model no.		ST-R9120-R	ST-R9120-L	ST-R8020-R	ST-R8020-L	ST-R5685-R	ST-R5685-L	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Standard	Standard	Standard	Standard	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	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
	Shifting lever cable	Polymer-coated cable	X	X	X	X	X	X
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
Shifting lever cable	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-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-R9170	BR-R9170	BR-R8070	BR-R8070	BR-R5785	BR-R5785	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
		Tool less	-	-	-	-	-	-
	Reach adjust	X	X	X	X	X	X	
	Funnel bleeding	X	X	X	X	X	X	
Free stroke adjust	X	X	X	X	X	X		
SERVOWAVE	X	X	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	Engineering Composite	Engineering Composite	Aluminum	Aluminum	
Bracket	Finish	-	-	-	-	Painted	Painted	
	Material	CFRP	CFRP	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	
Bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
	Main	-	-	-	-	-	-	
Shifter lever body	Release	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	
	Material	-	-	-	-	-	-	
Master cylinder	Finish	-	-	-	-	-	-	
	Material	-	-	-	-	-	-	
Clamp band	Titanium	Titanium	Steel	Steel	Steel	Steel		
Average weight	538 g/pair	538 g/pair	554 g/pair	554 g/pair	649 g/pair	649 g/pair		
Note								

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Shifting/Brake Lever (Hydraulic disc brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-RS505-R	ST-RS505-L	ST-RS405-R	ST-RS405-L	
Color	1	Series color	Series color	Dark Grey	Dark Grey	
	2	-	-	-	-	
Bracket cover color	1	Black	Black	Black	Black	
	2	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds	-	2	-	2	
	Rear speeds	11	-	10	10	
	2 / 3 mode converter	-	-	-	-	
	Max. multiple shifts (Main lever / rear)	2	-	2	-	
	Compatible rear derailleur type	Road 11-speed RD	-	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	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
	Shifting lever cable	Polymer-coated cable	-	-	-	-
		OPTISLICK	X	X	X	X
		SIL-TEC	-	-	-	-
		Stainless	-	-	-	-
	Shifting lever cable	Included	X	X	X	X
Pre assembled		X	X	X	X	
Brake lever	Lever size (Finger)	-	-	-	-	
	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-J-SS	
	Hose joint	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black
		2	-	-	-	-
	Recommended brake caliper	BR-RS505	BR-RS505	BR-RS405	BR-RS405	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	
	Reach adjust	Tool less Tool	- X	- X	- X	
	Funnel bleeding	X	X	X	X	
	Free stroke adjust	X	X	-	-	
SERVOWAVE	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	
	Material	Aluminum	Aluminum	Aluminum	Aluminum	
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	
Shifter lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	
Shifter lever body	Main	-	-	-	-	
	Release	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	
Master cylinder	Material	-	-	-	-	
	Finish	-	-	-	-	
Clamp band		Steel	Steel	Steel	Steel	
Average weight		665.3 g/pair	665.3 g/pair	-	-	
Note						

Shifting Lever

Series		DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	DURA-ACE
Model no.		SL-BSR1	SL-7900	SL-B579	SL-R780	SL-R783-L	SL-7700
Color	1	Series color	Series color	Series color	Silver	Silver	Series color
	2	-	-	-	Black	Black	-
Shifter type		Bar end Shifter	Down Tube Shifter	Bar end Shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Down Tube Shifter
Front speeds		2	2/3	2/3	2	3	2/3
Rear speeds		11	10	10	10	-	9
Compatible rear derailleur type		ROAD 11-speed RD	ROAD 10-speed RD	ROAD 10-speed RD	ROAD 10-speed RD	-	ROAD 9-speed RD
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		-	-	-	X	X	-
Max. multiple shifts (Main lever/ rear)		-	-	-	4	-	-
Function name							
Release function	MULTI RELEASE	-	-	-	X(Right) / - (Left)	-	-
	INSTANT RELEASE	-	-	-	X	X	-
	2WAY-RELEASE	-	-	-	X	X	-
OPTICAL GEAR DISPLAY	with	-	-	-	X	X	-
	with (removable)	-	-	-	-	-	-
	without	X	X	X	-	-	X
Multi-Bearing construction		-	-	-	R:2 L:2	2	-
Shifting lever bracket	Material	-	-	-	Aluminum	Aluminum	-
	Finish	-	-	-	Painted	Painted	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Clear Coated
Release lever body	Material	-	-	-	GFRP & Steel	GFRP & 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	-	-	-
Recommended Shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight		153 g/pair	63 g/pair	153 g/pair	270 g/pair	270 g/pair	-
Note					For flat handle bar	For flat handle bar	

Series		DURA-ACE	SHIMANO	ULTEGRA	TIAGRA	TIAGRA	TIAGRA
Model no.		SL-B577	SL-R5700	SL-B564-8	SL-4700	SL-4703	SL-4600
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	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2/3	2	2/3	2	3	2
Rear speeds		9	11	8	10	-	10
Compatible rear derailleur type		ROAD 9-speed RD	ROAD 11-speed RD	ROAD 8-speed RD	RD-4700	RD-4700	ROAD 10-speed RD
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		-	X	-	X	X	X
Max. multiple shifts (Main lever/ rear)		-	4	-	4	-	4
Function name							
Release function	MULTI RELEASE	-	*X(Right) / - (Left)	-	-	-	-
	INSTANT RELEASE	-	X	-	X (rear)	-	X (R)
	2WAY-RELEASE	-	X	-	X	X	X
OPTICAL GEAR DISPLAY	with	-	-	-	X	X	X
	with (removable)	-	-	-	-	-	-
	without	X	X	X	-	-	-
Multi-Bearing construction		-	R:2 L:2	-	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	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Coated	Painted	Clear Coated	Painted	Painted	Painted
Release lever body	Material	-	GFRP & Steel	-	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	SIL-TEC	-	-	-	-
Recommended Shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight		-	210 g/pair	-	-	-	-
Note			* Pull:single Push:double				

Shifting Lever

Series		TIAGRA	SHIMANO	SHIMANO	SORA	SORA	SORA
Model no.		SL-4603	SL-R460	SL-R400	SL-R3000-R	SL-R3000-L	SL-R3030-L
Color	1	Series color	Black	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	Down Tube Shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		3	2	2/3	-	2	3
Rear speeds		-	10	8	9	-	-
Compatible rear derailleur type		-	ROAD 10-speed RD	ROAD 8-speed RD	RD-R3000	FD-R3000	FD-R3030
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	-	X	X	X
Max. multiple shifts (Main lever/ rear)		-	4	-	3	-	-
Function name							
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	X (right side)	-	-	-	-
	2WAY-RELEASE	X	X	-	X	X	X
OPTICAL GEAR DISPLAY	with	X	X	-	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	X	-	-	-
Multi-Bearing construction		2	R:2 L:2	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	-	Painted	Painted	Painted
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material	Resin & Steel	Resin & Steel	-	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	SUS	SUS	SUS
	Finish	-	-	-	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				

Series		SORA	SORA	SHIMANO	SHIMANO	CLARIS	CLARIS
Model no.		SL-3500	SL-3503	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	-	9	-	8	-
Compatible rear derailleur type		ROAD 9-speed RD	-	ROAD 9-speed RD	-	Road 8-speed	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	X	X
Max. multiple shifts (Main lever/ rear)		3	-	3	-	3	-
Function name							
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	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
	Finish	-	-	-	-	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		

Shifting Lever

Series		CLARIS	CLARIS	CLARIS	CLARIS	A050	A050
Model no.		SL-R2030-L	SL-2400-R	SL-2400-L	SL-2403-L	SL-A050-7R	SL-A050-LN
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Handle Bar Mount Shifter	Handle Bar Mount Shifter
Front speeds		3	-	2	3	-	2 (Friction)
Rear speeds		-	8	-	-	7	-
Compatible rear derailleur type		-	ROAD 8-speed RD	-	-	ROAD 7-speed RD	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		X	X	X	X	-	-
Max. multiple shifts (Main lever/ rear)		-	3	-	-	-	-
Function name							
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2WAY-RELEASE	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	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Zinc plated	Zinc plated
Main lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin	Resin
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
	Finish	OPTISLICK	-	-	-	Standard	Standard
Recommended Shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40	OT-SIS40
Average weight		-	-	-	-	-	-
Note							

Series		SHIMANO	SHIMANO
Model no.		SL-SY20A-7	SL-SY20A-6
Color	1	Series color	Series color
	2	-	-
Shifter type		Down Tube Mount Shifter	Down Tube Mount Shifter
Front speeds		2 (Friction)	2 (Friction)
Rear speeds		7	6
Compatible rear derailleur type		ROAD 7-speed RD	ROAD 6-speed RD
Shifting lever position adjust		-	-
Shifting lever cable adjust		-	-
Max. multiple shifts (Main lever/ rear)		-	-
Function name			
Release function	MULTI RELEASE	-	-
	INSTANT RELEASE	-	-
	2WAY-RELEASE	-	-
OPTICAL GEAR DISPLAY	with	-	-
	with (removable)	-	-
	without	X	X
Multi-Bearing construction		-	-
Shifting lever bracket	Material	Steel	Steel
	Finish	Zinc plated	Zinc plated
Main lever body	Material	Resin	Resin
	Finish	-	-
Release lever body	Material	Resin	Resin
	Finish	-	-
Shifting lever cable	Material	Steel	Steel
	Finish	Standard	Standard
Recommended Shifting lever outer casing		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		SHIMANO	DURA-ACE	TIAGRA	SHIMANO	SHIMANO	SORA
Model no.		BL-R780	BL-TT79	BL-4700	BL-R550	BL-R400	BL-R3000
Color	1	Silver	Black	Series color	Silver	Series color	Series color
	2	Black	-	-	Black	-	-
	3	-	-	-	-	-	-
Compatible brake type	V-BRAKE	X	-	X	-	-	X
	Mechanical disc brake (Road)	X	X	X	X	-	X
	Caliper (NEW SUPER SLR)	X	X	X	-	-	X
	Caliper (SUPER SLR)	-	-	-	X	X	-
	Cantilever brake	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	23.8-24.2	22.2
Internal bumper stop		X	-	X	-	-	X
Lever size (Finger)		2.5	-	2.5	2.5	-	2.5
Brake cable 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
Cable adjust type		Two hand	-	Two hand	Two hand	-	Two hand
Brake lever	Material	Aluminum	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Anodized	Anodized	Barrel	Anodized
Brake bracket	Material	Aluminum	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Anodized	Painted
Average weight		170 g/pair	89 g/pair	-	-	-	-
Note			* Fixation structure is expanding plug clamp, handle bar inside diameter : 19.0 - 22.5 dim, handle bar outside diameter : 22.2 - 24.0 dim.				

Brake Lever

Series		CLARIS
Model no.		BL-R2000
Color	1	Series color
	2	-
	3	-
Compatible brake type	V-BRAKE	X
	Mechanical disc brake (Road)	X
	Caliper (NEW SUPER SLR)	X
	Caliper (SUPER SLR)	-
	Cantilever brake	X
	Roller brake	-
Recommended POWER MODULATOR	V-BRAKE	-
	Mechanical disc brake (MTB)	-
Clamp band	Open clamp band	-
	I-SPEC compatible	-
	Diameter (mm)	22.2
Internal bumper stop		x
Lever size (Finger)		2.5
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 (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		

ST

ST

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BL

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BR

BC

RD

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WH

HP

Brake (Caliper Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.		BR-R9100	BR-R9110-F	BR-R9110-R	BR-R9110-RS	BR-9000	BR-9010-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	49	49
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 R55C3	R55C4 Carbon R55C4-A Carbon
Compatibility		SLR EV	SLR EV	SLR EV	SLR EV	SLR EV	SLR EV
Assembly pivot nut (mm)	Front (mm)	10.5	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	X
Maximum tire size		28C	28C	28C	28C	25C	25C
Rim width		20.8-28 mm	20.8-28 mm	20.8-28 mm	20.8-28 mm	*19-28 mm	*19-28 mm
Cartridge shoe holder	Material	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Material	Aluminum	-	-	-	Aluminum	-
	Finish	Anodized	-	-	-	Anodized	-
QR	Material	Resin	Resin	-	Resin	Aluminum	Aluminum
	Finish	Painted	Painted	-	Painted	Painted	Painted
Titanium cable fixing bolt		X	X	X	X	X	X
Titanium pivot bolt		X	X (fixing bolt)	X (fixing bolt)	X (fixing bolt)	X	X (fixing bolt)
Average weight		326 g/pair	150 g/pc	139 g/pc	148 g/pc	297 g/pair	153 g/pcs
Note				"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature."		Maximum tire size: 25 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)	Maximum tire size: 25 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)

Brake (Caliper Brake)

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		BR-9010-R	BR-9010-RS	BR-R8000	BR-R8010-F	BR-R8010-R	BR-R8010-RS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Type		Direct mount type	Direct mount type	SLR EV Dual Pivot	Direct mount type	Direct mount type	Direct mount type
Reach (mm)		49	49	51	51	51	51
Brake shoe	Standard	R55C4	R55C4	R55C4	R55C4	R55C4	R55C4
	Optional choice	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon / R55C4-A Carbon / R55CT4	R55C4 Carbon / R55C4-A Carbon / R55CT4	R55C4 Carbon / R55C4-A Carbon / R55CT4	R55C4 Carbon / R55C4-A Carbon / R55CT4
Compatibility		SLR EV	SLR EV	SLR EV	SLR EV	SLR EV	SLR EV
Assembly pivot nut (mm)	Front (mm)	10.5	-	-	X	-	-
		12.5	-	-	X	-	-
		18.0	-	-	X	-	-
		27.0	-	-	X	-	-
		32.0	-	-	X	-	-
	Rear (mm)	10.5	-	-	X	-	-
Cartridge shoe holder		X	X	X	X	X	X
Tire guide bumpers		X	X	X	X	X	X
QR		-	X	X	X	-	X
Shoe angle adjusting		X	X	X	X	X	X
Spring tension adjusting		X	-	-	-	X	-
Maximum tire size		25C	25C	28C	28C	28C	28C
Rim width		*19-28 mm	*19-28 mm	20.8-28.0 mm	20.8-28.0 mm	20.8-28.0 mm	20.8-28.0 mm
Cartridge shoe holder	Material	Magnesium	Magnesium	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Material	-	-	Aluminum	-	-	-
	Finish	-	-	Anodized	-	-	-
QR	Material	-	Aluminum	Resin	Resin	-	Resin
	Finish	-	Painted	Painted	Painted	-	Painted
Titanium cable fixing bolt		X	X	-	-	-	-
Titanium pivot bolt		X (fixing bolt)	X (fixing bolt)	-	-	-	-
Average weight		127 g/pcs	149 g/pc	182 g (Front) 178 g (Rear)	174 g/pc	160 g/pc	172 g/pc
Note		"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature." Maximum tire size: 25 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)	Maximum tire size: 25 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)			"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature."	

Brake (Caliper Brake)

Series		ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	SHIMANO	105	
Model no.		BR-6800	BR-6810-F	BR-6810-R	BR-6810-RS	BR-R650	BR-5800	
Color	1	Series color	Series color	Series color	Series color	Silver	Black	
	2	-	-	-	-	-	Silver	
Type		SLR EV Dual Pivot	Direct mount type	Direct mount type	Direct mount type	SUPER SLR Dual Pivot	SLR EV Dual Pivot	
Reach (mm)		51	51	51	51	57	51	
Brake shoe	Standard	R55C4	R55C4	R55C4	R55C4	R55C2	R55C4	
	Optional choice	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon	R55C for Carbon rim R55C for Ceramic rim	R55C4 for Carbon rim, R55C4-A for Carbon rim (wider than 25mm rim)	
Compatibility		SLR EV	SLR EV	SLR EV	SLR EV	SUPER SLR	SLR EV	
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
	Rear (mm)	10.5	X	-	-	-	X	X
Cartridge shoe holder		X	X	X	X	X	X	
Tire guide bumpers		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		25C	28C	28C	28C	28C	28C	
Rim width		*19-28 mm	*19-28 mm	*19-28 mm	*19-28 mm	19-26 mm	19-28 mm	
Cartridge shoe holder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Gate	Material	Aluminum	-	-	-	Aluminum	Aluminum	
	Finish	Anodized	-	-	-	Anodized	Anodized	
QR	Material	Aluminum	Aluminum	-	Aluminum	Zinc	Resin	
	Finish	Painted	Painted	-	Painted	Plated	Painted	
Titanium cable fixing bolt		-	-	-	-	-	-	
Titanium pivot bolt		-	-	-	-	-	-	
Average weight		335 g/pair	173 g/pc	167.7 g/pcs	168 g/pc	-	388 g/pair	
Note		Maximum tire size: 25 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)	Maximum tire size: 28 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)	"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature." Maximum tire size: 28 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)	Maximum tire size: 28 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)	Maximum tire size: 28 mm	Maximum tire size: 28 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)	

Brake (Caliper Brake)

Series		105	105	105	SHIMANO	TIAGRA	SHIMANO	
Model no.		BR-5810-F	BR-5810-R	BR-5810-RS	BR-R561	BR-4700	BR-R451	
Color	1	Black	Black	Black	Silver	Series color	Black	
	2	-	-	-	Black	-	Silver	
Type		Direct mount type	Direct mount type	Direct mount type	NEW SUPER SLR Dual pivot	NEW SUPER SLR Dual pivot	SUPER SLR Dual Pivot	
Reach (mm)		-	-	-	49	51	57	
Brake shoe	Standard	R55C4	R55C4	R55C4	R55C3	R50T5	R50T2	
	Optional choice	R55C4 for Carbon rim, R55C4-A for Carbon rim (wider than 25mm rim)	R55C4 for Carbon rim, R55C4-A for Carbon rim (wider than 25mm rim)	R55C4 for Carbon rim, R55C4-A for Carbon rim (wider than 25mm rim)	R55C for Ceramic rim R55C3 for Carbon rim	R50T4	-	
Compatibility		SLR EV	SLR EV	SLR EV	NEW 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	-	-	-	-	X	-
	Rear (mm)	10.5	-	-	-	X	X	X
Cartridge shoe holder		X	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		-	-	-	-	-	-	
Maximum tire size		28C	28C	28C	28C	28C	32C	
Rim width		19-28 mm	19-28 mm	19-28 mm	19-26 mm	19-26 mm	19-26 mm	
Cartridge shoe holder	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-	
	Finish	Painted	Painted	Painted	Painted	-	-	
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted	
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted	
Gate	Material	-	-	-	Aluminum	Aluminum	Aluminum	
	Finish	-	-	-	Anodized	Anodized	Painted	
QR	Material	Resin	-	Aluminum	Zinc	Resin	Resin	
	Finish	Painted	-	Painted	Plated	Painted	-	
Titanium cable fixing bolt		-	-	-	-	-	-	
Titanium pivot bolt		-	-	-	-	-	-	
Average weight		174 g/pc	176 g/pc	175 g/pc	-	-	-	
Note		Maximum tire size: 28 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)	"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature." Maximum tire size: 28 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)	Maximum tire size: 28 mm Rim width: 19-26 mm /19-28 mm (R55C4-A Carbon)	Maximum tire size: 28 mm	QR Wider Open Maximum tire size: 32 mm		

Brake (Caliper Brake)

Series		SORA	CLARIS
Model no.		BR-R3000	BR-R2000
Color	1	Series color	Series color
	2	-	-
Type		NEW SUPER SLR Dual pivot	NEW SUPER SLR Dual pivot
Reach (mm)		51mm	51mm
Brake shoe	Standard	R50T5	R50T5
	Optional choice	R50T4	R50T4
Compatibility		NEW SUPER SLR	NEW SUPER SLR
Assembly pivot nut (mm)	Front (mm)	10.5	X
		12.5	X
		18.0	X
		27.0	X
		32.0	X
	Rear (mm)	10.5	X
Cartridge shoe holder		-	-
Tire guide bumpers		-	-
QR		X	x
Shoe angle adjusting		X	x
Spring tension adjusting		-	-
Maximum tire size		28 mm	28 mm
Rim width		19-28 mm	19-26 mm
Cartridge shoe holder	Material	-	-
	Finish	-	-
C-arm	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Y-arm	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Gate	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
QR	Material	Resin	Resin
	Finish	-	-
Titanium cable fixing bolt		-	-
Titanium pivot bolt		-	-
Average weight		-	-
Note			

Brake (Hydraulic disc brake)

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	SHIMANO	SHIMANO
Model no.		BR-R9170-F	BR-R9170-R	BR-R8070-F	BR-R8070-R	BR-RS805-F	BR-RS805-R
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Color	1	Series color	Series color	Series color	Series color	Gray	Gray
	2	-	-	-	-	-	-
	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-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	-	-	-	-	-	-
ICE TECHNOLOGIES pad compatible caliper		X	X	X	X	X	X
Brake Pad	Standard 1	K02Ti-Resin	K02Ti-Resin	K02S-Resin	K02S-Resin	L02A-Resin	L02A-Resin
	Standard 2	L02A-Resin	L02A-Resin	L02A-Resin	L02A-Resin	L04C-Metal	L04C-Metal
	Option 1	K04Ti-Metal	K04Ti-Metal	K04S-Metal	K04S-Metal	K02S-Resin	K02S-Resin
	Option 2	L04C-Metal	L04C-Metal	L04C-Metal	L04C-Metal	K04S-Metal	K04S-Metal
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-R785 ST-R5685	ST-R785 ST-R5685
Recommended brake rotor		SM-RT900	SM-RT900	SM-RT800	SM-RT800	SM-RT900	SM-RT900
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	Bolt fix pin/snap ring	Bolt fix pin
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight		255 g/pair	255 g/pair	280 g/pair	280 g/pair	290 g/pair	290 g/pair
Note							

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Brake (Hydraulic disc brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-RS785	BR-R785	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	Hydraulic disc brake
Color	1	Series color (ULTEGRA)	Series color (ULTEGRA)	Black	Black	Dark Grey	Dark Grey
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake hose (kit)		SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-SB	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	Banjo	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	White	White	-	-	-	-
ICE TECHNOLOGIES pad compatible caliper		X	X	X	X	X	X
Brake Pad	Standard 1	J02A-Resin	F01A-Resin	L02A-Resin	L02A-Resin	K02S-Resin	K02S-Resin
	Standard 2	J04C-Metal	F03C-Metal	L04C-Metal	L04C-Metal	-	-
	Option 1	G02A-Resin	G01A-Resin	K02S-Resin	K02S-Resin	L02A-Resin	L02A-Resin
	Option 2	G03S-Metal	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	-	x	-	-	-	-
	18.7mm	x	x	-	-	-	-
Recommended brake lever		ST-R785	ST-R785	ST-RS505	ST-RS505	ST-RS405 BL-RS600	ST-RS405 BL-RS600
Recommended brake rotor		SM-RT99	SM-RT99	-	-	SM-RT81 (140 mm/160 mm)	SM-RT81 (140 mm/160 mm)
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-mount	Post-mount	Flat mount	Flat mount	Flat mount	Flat mount
Piston		2	2	2	2	2	2
Piston material		Ceramic	Ceramic	Ceramic	Ceramic	Resin	Resin
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	5 mm	5 mm	4 mm	4 mm	4 mm	4 mm
	Anti loosen method	Snap ring	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	Pad axle
Average weight		271 g/pair	271 g/pair	290 g/pair	290 g/pair	-	-
Note							

Brake (Mechanical disc brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-CX77	BR-R317	BR-RS305-F	BR-RS305-R
Brake Type		Mechanical disc brake	Mechanical disc brake	Mechanical disc brake	Mechanical disc brake
Color	1	Glossy Gray	Silver	Black	Black
	2	-	Black	-	-
Compatibility		NEW SUPER SLR	NEW SUPER SLR	NEW SUPER SLR	NEW SUPER SLR
ICE TECHNOLOGIES pad compatible caliper		-	-	X	X
Pad	Standard	G01A Resin	G01S Resin	K02S-R	K02S-R
	Option 1	G03Ti	-	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		ST-9001/ST-6800/ ST-6870/ST-6700/ ST-6770/ BL-R780	ST-3500/2400 BL-R2000	ST-3500	ST-3500
Recommended Brake Rotor		SM-RT81 (140mm/160mm)	SM-RT54 (160mm) SM-RT81 (140mm)	SM-RT54/56 (160mm) SM-RT81 (140mm/160mm)	SM-RT54/56 (160mm) SM-RT81 (140mm/160mm)
Mount Type		Post mount	Post mount	FLAT mount	FLAT mount
Piston		1	1	1	1
Piston material		-	-	-	-
Caliper	MONO-BODY	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel
	Tool size	5 mm	5 mm	4 mm	4 mm
	Anti loosen method	Snap ring	Snap ring	Bolt fix pin/snap ring	Bolt fix pin
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle
Average weight		159 g	-	-	-
Note		Cyclocross usage	SHIMANO logo		

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Brake (V-BRAKE)

Series		SHIMANO
Model no.		BR-R353
Color	1	Silver
	2	Black
	3	-
Brake type		V-BRAKE
Brake shoe	Standard 1	S70T
	Standard 2	-
	Option 1	M70T4
	Option 2	-
Cartridge shoe holder		-
Arch size (mm)		90
Spacer type	X type	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
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
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
Fluoric 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	CFRP	CFRP	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	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	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		

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Rear Derailleur

Series		105	105	105	105	105	TIAGRA
Model no.		RD-5800-SS	RD-5800-GS	RD-5701-SS	RD-5701-GS	RD-5701-GS	RD-4700-SS
Pulley cage		SS	G5	SS	GS(Front double)	GS(Front triple)	SS
Color	1	Black	Black	Black	Black	Black	Series color
	2	Silver	Silver	Silver	Silver	Silver	-
Rear speeds		11	11	10	10	10	10
Compatible chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG 10-speed	HG 10-speed	HG 10-speed	HG-X Chain
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	22T	16T
Total capacity		33T	37T	34T	40T	40T	33T
Low sprocket	Max.	28T	32T	30T	32T	30T	28T
	Min.	23T	28T	25T	27T	25T	25T
Top sprocket	Max.	14T	12T	14T	12T	14T	14T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		2	2	2	2	2	2
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley 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	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
B-axle	Hollow axle	-	-	-	-	-	-
	Material	Steel	Steel	Steel	Steel	Steel	Stainless steel
	Finish	Plated	Plated	Plated	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	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	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Plated	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		234 g	250 g	230 g	243g	243 g	-
Note							

Rear Derailleur

Series		TIAGRA	TIAGRA	TIAGRA	TIAGRA	TIAGRA	SORA
Model no.		RD-4700-GS	RD-4700-GS	RD-4601-SS	RD-4601-GS	RD-4601-GS	RD-R3000-SS
Pulley cage		GS(Front double)	GS(Front triple)	SS	GS(Front double)	GS(Front triple)	SS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		10	10	10	10	10	9
Compatible chain		HG-X Chain	HG-X Chain	HG 10-speed	HG 10-speed	HG 10-speed	HG 9-speed
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	20T	16T	16T	22T	16T
Total capacity		41T	41T	34T	40T	40T	37T
Low sprocket	Max.	34T	32T	30T	32T	30T	32T
	Min.	28T	25T	25T	27T	25T	25T
Top sprocket	Max.	12T	12T	14T	12T	14T	14T
	Min.	11T	11T	11T	11T	11T	11T
Fluor coated link bushings		2	2	2	2	2	2
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel
	Sunken type pulley bolt	X	X	X	X	X	-
Bracket	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
B-axle	Hollow axle	-	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Stainless steel
	Finish	-	-	Plated	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	Aluminum	Aluminum	Aluminum	Aluminum	Resin
	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	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Painted
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Painted
Average weight		-	-	-	-	-	-
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Rear Derailleur

Series		SORA	SHIMANO	CLARIS	CLARIS	TOURNEY A070
Model no.		RD-R3000-GS	RD-R350-GS	RD-R2000-SS	RD-R2000-GS	RD-A070
Pulley cage		GS	GS	SS	GS	Smart
Color	1	Series color	Black	Series color	Series color	Series color
	2	-	-	-	-	-
Rear speeds		9	9	8	8	7
Compatible chain		HG 9-speed	HG 9-speed	HG 8-speed	HG 8-speed	HG
Mount	Direct attachment (Conventional)	X	X	X	X	X
	Riveted adapter (Road type)	-	-	-	-	X
	Riveted adapter (BMX-Track type)	-	-	-	-	-
Cable adjuster		X	X	X	X	X
Max. front difference		20T	20T	16T	20T	20T
Total capacity		43T	41T	37T	43T	37T
Low sprocket	Max.	34T	32T	32T	34T	28T
	Min.	28T	25T	25T	28T	28T
Top sprocket	Max.	14T	14T	13T	13T	14T
	Min.	11T	11T	11T	11T	11T
Fluoric coated link bushings		2	2	-	-	-
Pulley	G pulley bearing	-	-	-	-	-
	T pulley bearing	-	-	-	-	-
	Teeth	11T	11T	11T	11T	11/13T
	Bolts material	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley bolt	-	X	X	X	-
Bracket	Material	-	-	-	-	-
	Finish	-	-	-	-	-
B-axle	Hollow axle	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel
	Finish	-	-	Plated	Plated	MnPO4
B-axle 2	Hollow axle	-	-	-	-	-
	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Resin
	Finish	Painted	Painted	Painted	Painted	-
P-axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated
Plate body	Material	Resin	Resin	Resin	Resin	Resin
	Finish	Painted	Painted	Painted	Painted	-
Outer link	Material	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Zinc plated
Outer plate	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Average weight		-	-	-	-	-
Note			SHIMANO logo			

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)	-
		31.8	-	X	-	X	-
		34.9	-	X	-	X	-
	Brazed-On	X	-	X	-	X	-
Cable adjust		X	X	-	-	X	X
Top-Pull exclusive option		-	-	-	-	-	-
Chain line (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							

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Front Derailleur

Series		ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	
Model no.		FD-6800-F	FD-6800-B	FD-6700-F	FD-6700-B	FD-6703-F	FD-6703-B	
Color	1	Series color	Series color	Silver	Silver	Silver	Silver	
	2	-	-	Glossy Gray	Glossy Gray	Glossy Gray	Glossy Gray	
Speeds	Front	2	2	2	2	3	3	
	Rear	11	11	10	10	10	10	
Compatible chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	
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		-	-	-	-	-	-	
Top-Pull exclusive option		-	-	-	-	-	-	
Chain line (mm)		43.5	43.5	43.5	43.5	45	45	
Chain stay angle		61-66	61-66	61-66	61-66	63-66	63-66	
Top gear teeth		46-53T	46-53T	50-56T	50-56T	52T	52T	
Total capacity		16T	16T	16T	16T	16T	16T	
Applicable Top-Mid tooth difference		-	-	-	-	13T	13T	
Angled clamp band design		-	-	-	-	-	-	
Multi-Bearing construction		-	-	-	-	-	-	
Link bushings		7	7	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	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)		89 g	104 g	89 g	104 g	114 g	131 g	
Note								

Front Derailleur

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	105	105
Model no.		FD-CX70-F-T	FD-CX70-F-D	FD-CX70-B-T	FD-CX70-B-D	FD-5801-F	FD-5801-B
Color	1	Gray	Gray	Gray	Gray	Black	Black
	2	-	-	-	-	Silver	Silver
Speeds	Front	2	2	2	2	2	2
	Rear	10	10	10	10	11	11
Compatible chain		HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	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
Top-Pull exclusive option		X	-	X	-	-	-
Chain line (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	46-53T	46-53T
Total capacity		16T	16T	16T	16T	16T	16T
Applicable Top-Mid tooth difference		-	-	-	-	-	-
Angled clamp band design		-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Link bushings		7	7	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	GFRP	GFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Plating	Plating
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)		92 g	87 g	108 g	103 g	98 g	112 g
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Front Derailleur

Series		105	105	105	105	105	105	
Model no.		FD-5800-F	FD-5800-B	FD-5700-F	FD-5700-B	FD-5703-F	FD-5703-B	
Color	1	Black	Black	Black	Black	Black	Black	
	2	Silver	Silver	Silver	Silver	Silver	Silver	
Speeds	Front	2	2	2	2	3	3	
	Rear	11	11	10	10	10	10	
Compatible chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	
Action	TOP SWING	-	-	-	-	-	-	
	Down Swing	X	X	X	X	X	X	
Mount	Clamp Band (mm)	28.6	-	X*	-	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		-	-	-	-	-	-	
Top-Pull exclusive option		-	-	-	-	-	-	
Chain line (mm)		43.5	43.5	43.5	43.5	45	45	
Chain stay angle		61-66	61-66	61-66	61-66	63-66	63-66	
Top gear teeth		46-53T	46-53T	50-56T	50-56T	50T	50T	
Total capacity		16T	16T	16T	16T	20T	20T	
Applicable Top-Mid tooth difference		-	-	-	-	11T	11T	
Angled clamp band design		-	-	-	-	-	-	
Multi-Bearing construction		-	-	-	-	-	-	
Link bushings		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	
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)		89 g	104 g	89 g	105 g	114 g	132 g	
Note			* w/Adapter					

Front Derailleur

Series		TIAGRA	TIAGRA	TIAGRA	TIAGRA	TIAGRA	TIAGRA
Model no.		FD-4700-F	FD-4700-B	FD-4703-F	FD-4703-B	FD-4600-F	FD-4600-B
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Speeds	Front	2	2	3	3	2	2
	Rear	10	10	10	10	10	10
Compatible chain		HG-X chain/ CN-HG500	HG-X chain/ CN-HG500	HG-X chain/ CN-HG500	HG-X chain/ CN-HG500	HG 10-speed	HG 10-speed
Action	TOP SWING	-	-	-	-	-	-
	Down Swing	X	X	X	X	X	X
Mount	Clamp Band (mm)	28.6	X*	-	X*	-	X (w/ S size adapter)
		31.8	-	X	-	X	-
		34.9	-	X	-	X	-
	Brazed-On	X	-	X	-	X	-
Cable adjust		-	-	-	-	-	-
Top-Pull exclusive option		-	-	-	-	-	-
Chain line (mm)		43.5	43.5	45	45	43.5	43.5
Chain stay angle		61-66	61-66	63-66	63-66	61-66	61-66
Top gear teeth		46-52T	46-52T	50T	50T	50-56T	50-56T
Total capacity		16T	16T	20T	20T	16T	16T
Applicable Top-Mid tooth difference		-	-	11T	11T	-	-
Angled clamp band design		-	-	-	-	-	-
Multi-Bearing 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)		-	-	-	-	-	-
Note			* 28.6mm Clamp band: 31.8mm w/ Adapter		* 28.6mm Clamp band: 31.8mm w/ Adapter		

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Front Derailleur

Series		TIAGRA	TIAGRA	SORA	SORA	SORA	SORA
Model no.		FD-4603-F	FD-4603-B	FD-R3000-F	FD-R3000-B	FD-R3030-F	FD-R3030-B
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Speeds	Front	3	3	2	2	3	3
	Rear	10	10	9speed	9speed	9speed	9speed
Compatible chain		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 (Adapter)	-	X (Adapter)
		31.8	X	-	X (Adapter)	-	X (Adapter)
		34.9	X	-	X	-	X
	Brazed-On	X	-	X	-	X	-
Cable adjust		-	-	-	-	-	-
Top-Pull exclusive option		-	-	-	-	-	-
Chain line (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		-	-	X	X	X	X
Multi-Bearing construction		-	-	-	-	-	-
Link bushings		-	-	-	-	-	-
Front clamp band	Material	-	Aluminum	-	Aluminum	-	Aluminum
	Finish	-	Painted	-	Painted	-	Painted
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
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	Steel	Steel	Steel	Steel
	Finish	-	-	Ni plated	Ni plated	Ni plated	Ni plated
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
	Finish	-	-	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (Band type: L size, Direct type: w/ bolt)		-	-	-	-	-	-
Note							

Front Derailleur

Series		SORA	SORA	SHIMANO	CLARIS	CLARIS	CLARIS
Model no.		FD-3500-F	FD-3500-B	FD-R353-B	FD-R2000-F	FD-R2000-B	FD-R2030-F
Color	1	Series color	Series color	Black	Series color	Series color	Series color
	2	-	-	-	-	-	-
Speeds	Front	2	2	3	2	2	3
	Rear	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
Action	TOP SWING	-	-	-	-	-	-
	Down Swing	X	X	X	X	X	X
Mount	Clamp Band (mm)	28.6	-	X (w/ S size adapter)	-	-	X (Adapter)
		31.8	-	X	-	-	X (Adapter)
		34.9	-	X	X	-	X
	Brazed-On	X	-	-	X	-	X
Cable adjust		-	-	-	-	-	-
Top-Pull exclusive option		-	-	-	-	-	-
Chain line (mm)		43.5	43.5	45	43.5	43.5	45
Chain stay angle		61-66	61-66	63-66	61-66	61-66	63-66
Top gear teeth		46-52T	46-52T	50T	46-52T	46-52T	50T
Total capacity		16T	16T	20T	16T	16T	20T
Applicable Top-Mid tooth difference		-	-	11T	-	-	11T
Angled clamp band design		-	-	-	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			

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Front Derailleur

Series		CLARIS	CLARIS	CLARIS	TOURNEY	TOURNEY	A050
Model no.		FD-R2030-B	FD-2400-F	FD-2400-B	FD-A070-A	FD-A073	FD-A050
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Speeds	Front	3	2	2	2	3	2 (Friction)
	Rear	8	8	8	7	7	7
Compatible chain		HG 8-speed	HG 8-speed	HG 8-speed	HG	HG	HG
Action	TOP SWING	-	-	-	-	-	-
	Down Swing	X	X	X	X	X	X
Mount	Clamp Band (mm)	28.6	X (Adapter)	-	X (w/ S size adapter)	X (w/ S size adapter)	X (w/ S size adapter)
		31.8	X (Adapter)	-	X	X (w/ M size adapter)	X (w/ M size adapter)
		34.9	X	-	X	X	X
	Brazed-On		X	-	-	-	-
Cable adjust		-	-	-	-	-	-
Top-Pull exclusive option		-	-	-	-	-	-
Chain line (mm)		45	43.5	43.5	43.5	45	43.5
Chain stay angle		63-66	61-66	61-66	61-66	63-66	61-66
Top gear teeth		50T	46-52T	46-52T	50T	50T	53T
Total capacity		20T	16T	16T	16T	20T	16T
Applicable Top-Mid tooth difference		11T	-	-	-	11T	16T
Angled clamp band design		X	X	X	X	X	-
Multi-Bearing construction		-	-	-	-	-	-
Link bushings		-	-	-	-	-	-
Front clamp band	Material	Steel	Aluminum	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Zinc plated
Rear clamp band, base bracket	Material	Aluminum	-	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	-	Painted	Painted	Painted	Zinc plated
Outer link	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel+Resin
	Finish	Painted	Painted	Painted	Painted	Painted	Zinc plated
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Zinc plated
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome plated	Chrome plated	Chrome plated	Painted	Painted	Chrome plated
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Ni Plated	Ni plated	Ni plated	Ni plated	Ni 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 (Band type: L size, Direct type: w/ bolt)		-	-	-	-	-	-
Note							

Crankset

Series		DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	105
Model no.		FC-R9100	FC-R9100-P	FC-9000	FC-R8000	FC-6800	FC-5800
Color	1	Series color	Series color	Series color	Series color	Series color	Black
	2	-	-	-	-	-	Silver
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
Chain line (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
Chain ring combination		55-42T 54-42T 53-39T 52-36T 50-34T	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	53-39T 52-36T 50-34T
Q-factor		146	146	146	146	146.6	146
Crank arm length (mm)	165	X	X (only crankarm spec.)	X	X	X	X
	167.5	X	X (only crankarm spec.)	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 (only crankarm spec.)	X	-	-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain guard	X	X	X	X	X	X
Crank arm fixing bolt	With	X	X	X	X	X	X
	Without	-	-	-	-	-	-
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 - (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	SM-BBR60	SM-BBR60	SM-BBR60
	Pressfit	SM-BB92-41B	SM-BB92-41B	SM-BB92-41B	SM-BB72-41B	SM-BB72-41B	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 or GFRP	Aluminum/ CFRP Aluminum (46-36T)	Aluminum/ CFRP Aluminum (46-36T)	Aluminum/GFRP
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Outer / middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Stainless steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
Inner ring fixing bolt	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
crank fixing bolt included		X	X	X	X	X	X
Average weight (170mm, w/o BB)		621 g (53-39T) 609 g (50-34T)	691 g (53-39T) 679 g (50-34T)	639 g (55-42T) 632 g (54-42T) 618 g (53-39T) 622 g (52-38T) 618 g (52-36T) 610 g (50-34T)	690 g (53-39T) 681 g (52-36T) 674 g (50-34T) 668 g (46-36T)	696 g (53-39T) 689 g (52-36T) 681 g (50-34T) 677 g (46-36T)	776 g (53-39T) 773 g (52-36T) 757 g (50-34T)
Note		With power meter Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh					

Crankset

Series		SHIMANO	SHIMANO	DURA-ACE	ULTEGRA	ULTEGRA	105
Model no.		FC-RS510	FC-RS500	FC-7710	FC-6703	FC-6750	FC-5750
Color	1	Black	Black	Series color	Glossy Gray	Glossy Gray	Black
	2	-	Silver	-	-	-	-
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
Chain line (mm)		43.5	43.5	42.5	45	43.5	43.5
P.C.D. left / right (mm)		110	110	144	130 / 92	110	110
Gear arms (pcs)		4	5	5	5	5	5
Chain ring combination		50-34T	52-36T 46-36T	45T>>55T (1/2"X1/8"/ 1/2"X3/32")	52-39-30T	50-34T	50-34T
Q-factor		150	150.3	136.3	154.8	146	146
Crank arm length (mm)	165	X	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
Crank arm fixing bolt	With	X	X	X	X	X	X
	Without	-	-	-	-	-	-
HOLLOWTECH II		-	-	X	X	X	X
2-PIECE CRANKSET		X	X	-	-	-	-
HOLLOWTECH crank arm		-	-	X	X	X	X
OCTALINK		-	-	X	-	-	-
HOLLOWGLIDE		-	-	-	X	X	-
Compatible BB type	Outboard	X	X	-	X	X	X
	OCTALINK	-	-	X	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	BB-RS500	BB-RS500	BB-7710 / 7700	SM-BB6700	SM-BB6700	SM-BB5700
	Pressfit	BB-RS500-PB	SM-BB72-41B	-	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	109.5	-	-	-
Threaded BB shell 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/Resin	Aluminum	Aluminum	Aluminum/CFRP	Aluminum/CFRP	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	Aluminum	Aluminum	Stainless steel
	Finish	-	-	-	Anodized	Anodized	-
Inner ring fixing bolt	Material	-	-	-	Aluminum	-	-
	Finish	-	-	-	Anodized	-	-
crank fixing bolt included		X	X	X	X	X	X
Average weight (170mm, w/o BB)		908 g (50-34T)	823 g (52-36T) 798 g (50-34T) 790 g (46-36T)	82 g (46T, 1 / 2" x 1 / 8")	803 g	699 g	716 g
Note							

Crankset

Series		105	SHIMANO	TIAGRA	TIAGRA	SHIMANO	SHIMANO
Model no.		FC-5703	FC-CX50	FC-4700	FC-4703	FC-R460	FC-RS400
Color	1	Black	Silver	Series color	Series color	Black	Black
	2	-	Black	-	-	-	-
Rear speeds		10	10	10	10	10	10
Compatible chain		HG 10-speed	HG 10-speed	Super Narrow HG 10-speed	Super Narrow HG 10-speed	HG-X 10-speed	HG-X 10speed
Chain line (mm)		45	43.5	43.5	45	43.5	43.5
P.C.D. left / right (mm)		130 / 74	110	110	110/74	110	110
Gear arms (pcs)		5	5	4	4	5	5
Chain ring combination		50-39-30T	46-36T	52-36T 50-34T	50-39-30T	48-34T 46-34T	50-34T
Q-factor		154.76	150	150	158.8	149.9	150.3
Crank arm length (mm)	165	X	-	X	X	X	-
	167.5	-	-	-	-	-	-
	170	X	X	X	X	X	X
	172.5	X	X	X	X	-	-
	175	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain guard	X	X	X	X	X	X
Crank arm fixing bolt	With	X	X	X	X	X	-
	Without	-	-	-	-	-	-
HOLLOWTECH II		X	-	-	-	-	-
2-PIECE CRANKSET		-	X	X	X	X	X
HOLLOWTECH crank arm		X	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	X	X	X	X
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	SM-BB5700	BB-RS500	BB-RS500	BB-RS500	BB-RS500	BB-RS500
	Pressfit	SM-BB71-41B	SM-BB71-41B	BB-RS500-PB	BB-RS500-PB	SM-BB71-41B	BB-RS500-PB
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-	-
Threaded BB shell 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	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	Aluminum	Aluminum/GFRP	Aluminum/GFRP	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	Aluminum	-	-	Aluminum	-	-
	Finish	Anodized	-	-	Anodized	-	-
Inner ring	Material	Aluminum	Aluminum	Aluminum	Steel	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Plated	Anodized	Anodized
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	SUS
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	-	-	Stainless steel	-	-
	Finish	-	-	-	-	-	-
crank fixing bolt included		X	X	X	X	X	X
Average weight (170mm, w/o BB)		831 g	798 g	-	-	-	-
Note						SHIMANO logo	

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

Crankset

Series		SORA	SORA	SORA	SORA	SHIMANO	SHIMANO
Model no.		FC-R3030	FC-R3030-CG	FC-R3000	FC-R3000-CG	FC-R350	FC-R345
Color	1	Series color	Series color	Series color	Series color	Black	Silver
	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
Chain line (mm)		43.5	43.5	43.5	43.5	43.5	43.5
P.C.D. left / right (mm)		110/74	110/74	110	110	130	110
Gear arms (pcs)		4	5	4	5	5	5
Chain ring combination		50-39-30T	50-39-30T	50-34T	50-34T	52-39T	50-34T
Q-factor		158.8	158.8	150	150	150.3	152.2
Crank arm length (mm)	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	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With chain guard	-	X	-	X	X	X
	Without chain guard	X	-	X	-	X	X
Crank arm fixing bolt	With	X	X	X	X	X	X
	Without	-	-	-	-	-	-
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	BB-RS500	BB-RS500	BB-RS500	BBES300
	Pressfit	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	SM-BB71-41B	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-	113
Threaded BB shell 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/Resin	Aluminum/Resin	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	Steel	Steel	-	-	-	-
	Finish	Painted	Painted	-	-	-	-
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	SUS	SUS	SUS	SUS	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	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		w/CG spec		

Crankset

Series		CLARIS	CLARIS	CLARIS	CLARIS	SHIMANO	TOURNEY A070
Model no.		FC-R2000	FC-R2030	FC-R2000-CG	FC-R2030-CG	FC-RS200	FC-A070
Color	1	Series color	Series color	Series color	Series color	Black	Series color
	2	-	-	-	-	-	-
Rear speeds		8	8	8	8	8	7/8
Compatible chain		HG 8-speed	HG 8-speed	HG 8-speed	HG 8-speed	HG 8-speed	HG
Chain line (mm)		43.5	43.5	43.5	43.5	43.5	43.5
P.C.D. left / right (mm)		110	110/74	110	110/74	110	Riveted
Gear arms (pcs)		4	4	4	4	5arms	5
Chain ring combination		50-34T	50-39-30T	50-34T	50-39-30T	50-34T 46-34T (NEW)	50-34T
Q-factor		150	158.8	150	158.8	153.7	169
Crank arm length (mm)	165	x	x	x	x	X	X
	167.5	-	-	-	-	-	-
	170	x	x	x	x	X	X
	172.5	-	-	-	-	-	-
	175	x	x	x	x	X	-
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	X	X	X	X
	Without chain guard	X	X	-	-	X	X
Crank arm fixing bolt	With	X	X	X	X	X	-
	Without	-	-	-	-	-	X
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		X	X	X	X	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	X	X	-	-
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	X	X
Recommended BB	Threaded (normal)	BB-RS500	BB-RS500	BB-RS500	BB-RS500	BB-UN26	BB-UN26
	Pressfit	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	MM110	MM110
Threaded BB shell 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	-	-
	Finish	Plated	Plated	Plated	Plated	-	-
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Steel/Resin	Steel/Resin	Steel/Resin	Steel/Resin	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Middle ring	Material	-	Steel	-	Steel	-	-
	Finish	-	Painted	-	Painted	-	-
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	SUS	SUS	SUS	SUS	Stainless steel	-
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	SUS	SUS	SUS	SUS	-	-
	Finish	-	-	-	-	-	-
crank fixing bolt included		X	X	X	X	-	-
Average weight (170mm, w/o BB)		-	-	-	-	-	-
Note							

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

Crankset

Series		TOURNEY
Model no.		FC-A073
Color	1	Series color
	2	-
Rear speeds		7/8
Compatible chain		HG
Chain line (mm)		45
P.C.D. left / right (mm)		Riveted
Gear arms (pcs)		5
Chain ring combination		50-39-30T
Q-factor		171.5
Crank arm length (mm)	165	X
	167.5	-
	170	X
	172.5	-
	175	-
	177.5	-
	180	-
Optional chain guard	With chain guard	X
	Without chain guard	X
Crank arm fixing bolt	With	-
	Without	X
HOLLOWTECH II		-
2-PIECE CRANKSET		-
HOLLOWTECH crank arm		-
OCTALINK		-
HOLLOWGLIDE		-
Compatible BB type	Outboard	-
	OCTALINK	-
	Square	X
Recommended BB	Threaded (normal)	BB-UN26
	Pressfit	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	LL113
Threaded BB shell width (mm)	68	X
	70	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	-
	Finish	-
Inner ring fixing bolt	Material	-
	Finish	-
crank fixing bolt included		-
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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Bottom Bracket

Series		DURA-ACE	DURA-ACE	105	TIAGRA	TOURNEY A070	
Model no.		BB-7700	BB-7710	BB-5500	BB-E551	BB-UN26	
Spindle	Hollow spindle	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	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	
Model no.	CS-R9100	CS-R9100	CS-R9100	CS-R9100	CS-R9100	CS-R8000	
Type	HG-EV	HG-EV	HG-EV	HG-EV	HG-EV	HG-EV	
Speeds	11-speed	11-speed	11-speed	11-speed	11-speed	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	
Combination name	11-25T	11-28T	11-30T	12-25T	12-28T	11-25T	
Group name	-	-	-	-	-	-	
Combination *Titanium gear	11th	25*	28*	30*	25*	28*	25
	10th	23*	25*	27*	23*	25*	23
	9th	21*	23*	24*	21*	23*	21
	8th	19*	21*	21*	19*	21*	19
	7th	17*	19*	19*	18*	19*	17
	6th	16	17	17	17	17	16
	5th	15	15	15	16	16	15
	4th	14	14	14	15	15	14
	3rd	13	13	13	14	14	13
	2nd	12	12	12	13	13	12
Carbon Spider arm	1st	11	11	11	12	12	11
	QTY (pcs)	1	1	1	1	1	1
Aluminum Spider arm	Finish	-	-	-	-	-	-
	QTY (pcs)	1	1	1	1	1	1
Titanium gear	Finish	-	-	-	-	-	Anodized
Titanium gear	Finish	Titanium	Titanium	Titanium	Titanium	Titanium	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Average weight	175 g	193 g	211 g	189 g	205 g	232 g	
Note							

Series	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	
Model no.	CS-R8000	CS-R8000	CS-R8000	CS-R8000	CS-R8000	CS-6800	
Type	HG-EV	HG-EV	HG-EV	HG-EV	HG-EV	HG-EV	
Speeds	11	11	11	11	11	11-speed	
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	
Combination name	11-28T	11-30T	12-25T	14-28T	11-32T	11-23T	
Group name	-	-	-	-	-	-	
Combination *Titanium gear	11th	28	30	25	28	32	23
	10th	25	27	23	25	28	21
	9th	23	24	21	23	25	19
	8th	21	21	19	21	22	18
	7th	19	19	18	20	20	17
	6th	17	17	17	19	18	16
	5th	15	15	16	18	16	15
	4th	14	14	15	17	14	14
	3rd	13	13	14	16	13	13
	2nd	12	12	13	15	12	12
Carbon Spider arm	1st	11	11	12	14	11	11
	QTY (pcs)	1	1	1	1	1	1
Aluminum Spider arm	Finish	-	-	-	-	-	-
	QTY (pcs)	1	1	1	1	1	1
Titanium gear	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Titanium gear	Finish	-	-	-	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Average weight	251 g	269 g	243 g	300 g	292 g	212 g	
Note							

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- RD
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- BB
- CS
- HB
- FH
- WH
- WH
- HP

Cassette Sprocket

Series	SHIMANO	105	105	105	DURA-ACE	DURA-ACE
Model no.	CS-HG800-11	CS-5800	CS-5800	CS-5800	CS-7900	CS-7900
Type	HG-EV	HG-EV	HG-EV	HG-EV	HG	HG
Speeds	11	11-speed	11-speed	11-speed	10-speed	10-speed
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
Combination name	11-34T	11-28T	11-32T	12-25T	11-25T	11-27T
Group name	-	-	-	-	-	-
Combination *Titanium gear	11th	34	28	32	25	-
	10th	30	25	28	23	25
	9th	27	23	25	21	23
	8th	25	21	22	19	21
	7th	23	19	20	18	19
	6th	21	17	18	17	17
	5th	19	15	16	16	15
	4th	17	14	14	15	14
	3rd	15	13	13	14	13
	2nd	13	12	12	13	12
Carbon Spider arm	1st	11	11	11	12	11
	QTY (pcs)	-	-	-	-	-
Aluminum Spider arm	Finish	-	-	-	-	-
	QTY (pcs)	2	1	1	1	2
Titanium gear	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Aluminum	Steel	Steel	Steel	Aluminum
	Finish	Anodized	Nickel plated	Nickel plated	Nickel plated	Anodized
Average weight	335g	284 g	320 g	269 g	180 g	184 g
Note						

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

Cassette Sprocket

Series	105	105	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CS-5700	CS-5700	CS-HG500-10	CS-HG500-10	CS-HG500-10	CS-HG500-10
Type	HG	HG	HG	HG	HG	HG
Speeds	10-speed	10-speed	10-speed	10-speed	10-speed	10-speed
Compatible chain	HG 10-speed	HG 10-speed	HG-X 10-speed/HG 10-speed/CN-HG500	HG-X 10-speed/HG 10-speed/CN-HG500	HG-X 10-speed/HG 10-speed/CN-HG500	HG-X 10-speed/HG 10-speed/CN-HG500
Combination name	11-25T	11-28T	11-25T	12-28T	11-32T	11-34T
Group name	-	-	-	-	-	-
Combination *Titanium gear	11th	-	-	-	-	-
	10th	25	28	25	28	32
	9th	23	24	23	25	28
	8th	21	21	21	23	25
	7th	19	19	19	21	22
	6th	17	17	17	19	20
	5th	15	15	15	17	18
	4th	14	14	14	15	16
	3rd	13	13	13	14	14
	2nd	12	12	12	13	12
Carbon Spider arm	1st	11	11	11	12	11
	QTY (pcs)	-	-	-	-	-
Aluminum Spider arm	Finish	-	-	-	-	-
	QTY (pcs)	1	1	-	-	-
Titanium gear	Finish	Anodized	Anodized	-	-	-
Steel gear	Finish	-	-	-	-	-
Lock ring	Material	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
	Finish	Steel	Steel	Steel	Steel	Steel
Average weight	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Note	245 g	255 g	-	-	-	-

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

Cassette Sprocket

Series	CLARIS	CLARIS	CLARIS	SHIMANO	CLARIS	CLARIS	
Model no.	CS-HG50-8	CS-HG50-8	CS-HG50-8	CS-HG50-8	CS-HG50-8	CS-HG50-8	
Type	HG	HG	HG	HG	HG	HG	
Speeds	8-speed	8-speed	8	8-speed	8-speed	8-speed	
Compatible chain	CN-HG71	CN-HG71	HG 8-speed	HG	HG	HG	
Combination name	11-30T	11-32T	11-34T	12-23T	12-25T	13-26T	
Group name	an	aw	Ca	U	W	V	
Combination *Titanium gear	11th	-	-	-	-	-	
	10th	-	-	-	-	-	
	9th	-	-	-	-	-	
	8th	30	32	34	23	25	26
	7th	26	28	28	21	23	23
	6th	23	24	24	19	21	21
	5th	20	21	21	17	19	19
	4th	17	18	18	15	17	17
	3rd	15	15	15	14	15	15
	2nd	13	13	13	13	13	14
1st	11	11	11	12	12	13	
Carbon Spider arm	QTY (pcs)	-	-	-	-	-	
	Finish	-	-	-	-	-	
Aluminum Spider arm	QTY (pcs)	-	-	-	-	-	
	Finish	-	-	-	-	-	
Titanium gear	Finish	-	-	-	-	-	
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Lock ring	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Average weight	-	-	-	-	-	-	
Note							

Series	TOURNEY A070	TOURNEY A070	
Model no.	CS-HG41-7	CS-HG20-7	
Type	HG	HG	
Speeds	7-speed	7-speed	
Compatible chain	IG/HG	IG/HG	
Combination name	11-28T	12-28T	
Group name	ac	E	
Combination *Titanium gear	11th	-	-
	10th	-	-
	9th	-	-
	8th	-	-
	7th	28	28
	6th	24	24
	5th	21	21
	4th	18	18
	3rd	15	16
2nd	13	14	
1st	11	12	
Carbon Spider arm	QTY (pcs)	-	-
	Finish	-	-
Aluminum Spider arm	QTY (pcs)	-	-
	Finish	-	-
Titanium gear	Finish	-	-
Steel gear	Finish	Nickel plated	Brown&Black
Lock ring	Material	Steel	Steel
	Finish	Manganese phosphate	Zinc phosphate
Average weight	-	-	
Note			

Front Hub (Rim/Disc Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	105	SHIMANO	
Model no.		HB-9000	HB-7710	HB-7600	HB-6800	HB-5800	HB-RS400	
Color	1	Series color	Silver	Silver	Series color	Black	Black	
	2	-	-	-	-	Silver	Silver	
Brake Type		Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	
O.L.D. (mm)		100	100 (Front) 120 (Rear)	100 (Front) 120 (Rear)	100	100	100	
Spoke hole	24H	X	-	-	-	-	-	
	28H	X	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	
	QR skewer length (mm)	129	-	-	-	-	-	
		133	X	-	-	X	X	
	Length (mm)		108	142 (M9) (Front) 164 (M10) (Rear)	142 (M9) (Front) 164 (M10) (Rear)	108	108	108
	Diameter (mm)		14.8	9 (Front) 10 (Rear)	9 (Front) 10 (Rear)	14	9	9
	Thru Axle Length x Inner Diameter (mm)	100 x 8	-	-	-	-	-	-
		100 x 12	-	-	-	-	-	-
100 x 15		-	-	-	-	-	-	
110 x 20		-	-	-	-	-	-	
Flange distance (mm)		74.0	74.0 (Front) 72.5 (Single Thread, Rear) 67.0 (Double Thread, Rear)	72.3 (Front) 75.5 (Single Thread, Rear) 65.0 (Double Thread, Rear)	71.6	71.6	71.6	
Offset (mm)		0	0(Front)/2.75 (Single Thread, Rear)/ 0 (Double Thread, Rear)	0(Front)/5.25(Rear)	0	0	0	
P.C.D. Left/Right (mm)		38	38 (Front) 44 (Rear)	67	40	38	38	
Flange diameter (mm)		48.4	46 (Front) 52 (Rear)	75	50.4	48.4	48.4	
Seal		Labyrinth and Contact	Dust Cap	Dust Cap	Labyrinth and Contact	Labyrinth and 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	
Disc mount	CENTER LOCK	-	-	-	-	-	-	
	External serration rotor lock ring	-	-	-	-	-	-	
	CENTER LOCK mount cover option	-	-	-	-	-	-	
	6-bolt	-	-	-	-	-	-	
	140 mm disc brake rotor compatible	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Aluminum	Steel	Steel	Aluminum	Steel	Steel	
	Finish	Anodized	Plating	Plating	Anodized	w/Plated Nut	-	
QR lever	Material	Aluminum	-	-	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	-	-	Anodized	Anodized	Painted	
	Color	Silver	-	-	Gray	Black	Black	
QR housing	Material	Anodized	-	-	Aluminum	Aluminum	Aluminum	
	Finish	Silver	-	-	Anodized	Anodized	Painted	
QR nut	Material	Anodized	-	-	Resin	Resin	Resin	
	Finish	Silver	-	-	Black	Black	Black	
Radial lacing		X	-	-	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	-	
Note		* Aero spoke hole available(18H/24H) ** Super Finishing	For Track * Dishing Distance R (Single Thread): 2.75mm / (Double Thread): 0					

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Front Hub (Rim/Disc Brake)

Series		SHIMANO	TOURNEY A070	SHIMANO	SHIMANO
Model no.		HB-RS300	HB-RM40	HB-RS770	HB-RS505
Color	1	Silver	Black	Black	Black
	2	Black	Silver	Silver	-
Brake Type		Rim brake	Rim brake	CENTER LOCK disc brake	CENTER LOCK disc 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		QR	QR	12mm E-THRU
	QR skewer length (mm)	129	X	X	-
		133	X	X	-
	Length (mm)		108 (M9)	108 (M9)	100
	Diameter (mm)		9	9	15
	Thru Axle Length x Inner Diameter (mm)	100 x 8	-	-	-
		100 x 12	-	-	x
		100 x 15	-	-	-
110 x 20		-	-	-	
Flange distance (mm)		71.6	71.6	59.6	
Offset (mm)		0	0	6	
P.C.D. Left/Right (mm)		38	38	44/44	
Flange diameter (mm)		48.4	46	52.8 (left) / 52.8 (right)	
Seal		Contact	-	Labyrinth & Contact	
Internal grease sleeve		-	-	-	
Digital adjustment system		-	-	-	
Bearing	Stainless ball	-	-	-	
	Cup	-	-	CBN	
	Cone	-	-	CBN	
Disc mount	CENTER LOCK	-	-	x	
	External serration rotor lock ring	-	-	-	
	CENTER LOCK mount cover option	-	-	-	
	6-bolt	-	-	-	
	140 mm disc brake rotor compatible	-	-	x	
Hub shell	Material	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	
Axle	Material	Steel	Steel	Aluminum	
	Finish	-	-	Anodized	
QR lever	Material	Aluminum	Steel	-	
	Finish	Painted	Plated	-	
	Color	Black	Silver	-	
QR housing	Material	Steel	Steel	-	
	Finish	Painted	Plated	-	
QR nut	Material	Resin	Resin	-	
	Finish	Black	Black	-	
Radial lacing		X	-	-	
Average weight (w/o axle and lock ring)		-	-	125 g	
Note		-	-	-	

FREEHUB (Rim/Disc Brake)

Series		DURA-ACE	ULTEGRA	105	SHIMANO	SHIMANO	TOURNEY A070	
Model no.		FH-9000	FH-6800	FH-5800	FH-RS400	FH-RS300	FH-RM30-7-QR	
Color	1	Series color	Series color	Black	Black	Silver	Silver	
	2	-	-	Silver	Silver	Black	-	
Brake Type		Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	
Rear speeds		11/10*	11/10*	11/10*	10 / 11	8/9/10-speed	7	
O.L.D. (mm)		130	130	130	130	130	130	
Spoke hole	24H	X	-	-	-	-	-	
	28H	X	-	-	X	X	-	
	32H	X	X	X	X	X	X	
	36H	X	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	
	QR skewer length (mm)	161	-	-	-	-	-	X
		163	X	X	X	X	X	-
		166	-	-	-	-	-	-
		168	X	X	X	X	X	-
		170	-	-	-	-	-	-
	Thru Axle Length x Inner Diameter (mm)	135 x 10	-	-	-	-	-	-
		135 x 12	-	-	-	-	-	-
		142 x 12	-	-	-	-	-	-
		148 x 12	-	-	-	-	-	-
150 x 12		-	-	-	-	-	-	
Flange distance (mm)		56.9 **	56.9	56.9	56.9	57.9	59.2	
Offset (mm)		9.75 **	9.7	9.75	9.75	8.4	5.5	
P.C.D. left / right (mm)		44 / 45	44 / 45	44 / 45	44 / 45	45	45	
Flange diameter left / right (mm)		52.8/53.8	52.8/53.8	52.8/53.8	52.8 / 53.8	53.8	53.8	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	-	
	Free hub body	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	-	-	
	Cone	CBN	CBN	CBN	CBN	-	-	
FREEHUB body	Material	Titanium	Steel	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum/2pcs	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Shiny	
Axle	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel	
	Finish	Anodized	Anodized	w/Plated Nut	-	-	-	
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel	
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Plated	
	Color	9000SLV	Black	Black	Black	Black	Black	
QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel	
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted	
QR nut	Material	Aluminum	Resin	Resin	Resin	Resin	Resin	
	Finish	Anodized	Black	Black	Black	Black	Black	
Rotor lock ring	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Radial Lacing		-	-	-	-	-	-	
Average weight (w/o axle and lock ring)		247 g	330 g	368 g	-	-	-	
Note		* Can be used for 10-speed with an additional spacer. ** Aero spoke hole available *** Flange Distance:56.5, Dish:9.95(only for 28H) **** Super Finishing.		* Can be used for 10-speed with an additional spacer.	* Can be used for 10-speed with an additional spacer.	* Can be used for 10-speed with an additional spacer.		

FREEHUB (Rim/Disc Brake)

Series		SHIMANO	SHIMANO	
Model no.		FH-RS770	FH-RS505	
Color	1	Silver	Black	
	2	Black	-	
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	
Rear speeds		11/10*	11 / 10	
O.L.D. (mm)		142	135	
Spoke hole	24H	-	-	
	28H	X	X	
	32H	X	X	
	36H	X	X	
External serration rotor lock ring	with	-	-	
	without	-	-	
Internal serration rotor lock ring	with	-	-	
	without	X	X	
CENTER LOCK mount cover option		-	-	
Axle	Fixing method		12mm E-THRU	QR
	QR skewer length (mm)	161	-	-
		163	-	-
		166	-	-
		168	-	X
		170	-	-
		173	-	X
	Thru Axle Length x Inner Diameter (mm)	135 x 10	-	-
		135 x 12	-	-
		142 x 12	X	-
		148 x 12	-	-
		150 x 12	-	-
	Flange distance (mm)		55.7	55.65
Offset (mm)		7.5	7.4	
P.C.D. left / right (mm)		44 / 45	44 / 45	
Flange diameter left / right (mm)		52.8/53.8	52.8 / 53.8	
Seal	Hub	Contact	Contact	
	Free hub body	Contact	Contact	
Internal grease sleeve		-	X	
Digital adjustment system		-	-	
Bearing	Stainless ball	-	-	
	Cup	CBN	Polish	
	Cone	CBN	CBN	
FREEHUB body	Material	Steel	Steel	
	Finish	-	-	
Hub shell	Material	Aluminum	Aluminum	
	Finish	Anodized	Anodized	
Axle	Material	Aluminum	Steel	
	Finish	Anodized	-	
QR lever	Material	-	Aluminum	
	Finish	-	Painted	
	Color	-	Black	
QR housing	Material	-	Aluminum	
	Finish	-	Painted	
QR nut	Material	-	Resin	
	Finish	-	Black	
Rotor lock ring	Material	-	-	
	Finish	-	-	
Radial Lacing		-	-	
Average weight (w/o axle and lock ring)		302 g	-	
Note		* Can be used for 10-speed with an additional spacer. For Disc Brake/ CENTER LOCK mount		



Wheel (Rim Brake)

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.	WH-R9100-C60	WH-R9100-C60	WH-R9100-C60	WH-R9100-C60	WH-R9100-C40	WH-R9100-C40
SPEC	CL-F	CL-R	TU-F	TU-R	CL-F	CL-R
Color	1	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-
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)	100	130	100	130	100	130
Wheel Size	622x17C	622x17C	700C	700C	622x15C	622x15C
Rim	Height (mm)	50	50	60	60	35
	Width (mm)	22.4	22.4	28	28	20.8
	Rim joint	Sleeved	Sleeved	-	-	Welded
	Brazed reinforcement	-	-	-	-	-
Spokes	Number	16	21	16	21	16
	Bladed	X	X	X	X	X
	Butted	X	X	X	X	X
Axle Fixing method	QR	QR	QR	QR	QR	QR
QR skewer length (mm)	129	-	-	-	-	-
	133	X	-	X	-	X
	161	-	-	-	-	-
	163	-	X	-	X	X
	166	-	-	-	-	-
	168	-	X	-	X	X
	170	-	-	-	-	-
	173	-	-	-	-	-
Axle Length (mm)	108	141	108	141	108	141
Axle Diameter (mm)	15	15	15	15	15	15
Thru Axle Length x Inner Diameter (mm)	100 x 8	-	-	-	-	-
	100 x 12	-	-	-	-	-
	100 x 15	-	-	-	-	-
	110 x 20	-	-	-	-	-
	135 x 10	-	-	-	-	-
	135 x 12	-	-	-	-	-
	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	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-
	140 mm Disc brake rotor compatible	-	-	-	-	-
OPTBAL	-	X	-	X	-	X
D2 rim	X	X	X	X	-	-
OFFSET RIM	-	-	-	-	-	X
Digital adjustment system	X	X	X	X	X	X
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-
Internal grease sleeve	-	-	-	-	-	-
Requires rim tape	X	X	-	-	X	X
Tire	Type	Clincher	Clincher	Tubular	Tubular	Clincher
	Recommended size	23-622	23-622	23-28"	23-28"	23-622
Rim	Material	Carbon+AL	Carbon+AL	Carbon	Carbon	Carbon+AL
	Finish	painting	painting	painting	painting	painting
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Color	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Color	Silver	Silver	Silver	Silver	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	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	Aluminum
	Color	Series color	Series color	Series color	Series color	Series color
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)	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	WH-R9100-C40	WH-R9100-C24	WH-R9100-C24	WH-RS700-C30	WH-RS700-C30	
SPEC	TU-F	TU-R	CL-F	CL-R	TL-F	TL-R	
Color	1	Series color	Series color	Series color	Series color	Black	Black
	2	-	-	-	-	-	-
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)	100	130	100	130	100	130	
Wheel Size	700C	700C	622x15C	622x15C	622x15C	622x15C	
Rim	Height (mm)	37	37	21	24	24	28
	Width (mm)	28	28	20.8	20.8	20.8	20.8
	Rim joint	-	-	Sleeved	Sleeved	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
Spokes	Number	16	21	16	20	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 (mm)	129	-	-	-	-	-	-
	133	X	-	X	-	X	-
	161	-	-	-	-	-	-
	163	-	X	-	X	-	X
	166	-	-	-	-	-	-
	168	-	X	-	X	-	X
	170	-	-	-	-	-	-
173	-	-	-	-	-	-	
Axle Length (mm)	108	141	108	141	108	141	
Axle Diameter (mm)	15	15	15	15	15	15	
Thru Axle Length x Inner Diameter (mm)	100 x 8	-	-	-	-	-	-
	100 x 12	-	-	-	-	-	-
	100 x 15	-	-	-	-	-	-
	110 x 20	-	-	-	-	-	-
	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
150 x 12	-	-	-	-	-	-	
Bearing	Stainless ball	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	-	-	-	-	-	-
	140 mm Disc brake rotor compatible	-	-	-	-	-	-
OPTBAL	-	X	-	-	-	X	
D2 rim	-	-	-	-	-	-	
OFFSET RIM	-	X	-	X	-	X	
Digital adjustment system	X	X	X	X	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal grease sleeve	-	-	-	-	-	-	
Requires rim tape	-	-	X	X	X	X	
Tire	Type	Tubular	Tubular	Clincher	Clincher	Tubeless	Tubeless
	Recommended size	23-28"	23-28"	23-622	23-622	23-622 - 28-622	23-622 - 28-622
Rim	Material	Carbon	Carbon	Carbon+AL	Carbon+AL	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
	Color	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Color	Black	Black	Black	Black	Black	Black
FREEHUB body	Material	-	Titanium	-	Titanium	-	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	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	Resin	Resin
	Color	Series color	Series color	Series color	Series color	Black	Black
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)	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	WH-RS500	WH-RS330	WH-RS330	WH-RS11	WH-RS11
SPEC	TL-F	TL-R	CL-F	CL-R	CL-F	CL-R
Color	1	Grey	Grey	Black	Black	Black
	2	-	-	White	White	Silver
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)	100	130	100	130	100	130
Wheel Size	622x15C	622x15C	622x15C	622x15C	622x15C	622x15C
Rim	Height (mm)	24	24	30	30	24
	Width (mm)	20.8	20.8	20.8	20.8	20.8
	Rim joint	Welded	Welded	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	X	X	-	-	-
Spokes	Number	16	20	16	21	16
	Bladed	X	X	X	X	X
	Butted	X	X	X	X	-
Axle Fixing method	QR	QR	QR	QR	QR	QR
QR skewer length (mm)	129	-	-	-	-	-
	133	X	-	X	-	X
	161	-	-	-	-	-
	163	-	X	-	X	X
	166	-	-	-	-	-
	168	-	X	-	X	X
	170	-	-	-	-	-
	173	-	-	-	-	-
Axle Length (mm)	108	141	108	141	108	141
Axle Diameter (mm)	14	14	9	10	9	10
Thru Axle Length x Inner Diameter (mm)	100 x 8	-	-	-	-	-
	100 x 12	-	-	-	-	-
	100 x 15	-	-	-	-	-
	110 x 20	-	-	-	-	-
	135 x 10	-	-	-	-	-
	135 x 12	-	-	-	-	-
	142 x 12	-	-	-	-	-
150 x 12	-	-	-	-	-	
Bearing	Stainless ball	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish
	Cone	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	CBN finish
Disc mount	CENTER LOCK	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-
	140 mm Disc brake rotor compatible	-	-	-	-	-
OPTBAL	-	-	-	X	-	-
D2 rim	-	-	-	-	-	-
OFFSET RIM	-	X	-	X	-	X
Digital adjustment system	X	X	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-
Internal grease sleeve	X	X	X	X	-	X
Requires rim tape	-	-	X	X	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	Painted	Painted	Black: Anodized Silver: Anodized White: Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Color	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Color	Black	Black	Black	Black	Black
FREEHUB body	Material	-	Steel	-	Steel	Steel
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminium	Aluminium	Steel	Steel	Steel
	Finish	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	Resin	Resin	Resin	Resin	Resin
	Color	Black	Black	Black	Black	Black
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	875 g	1,176 g	816 g	1,087 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-RS010	WH-RS010	WH-R501-A	WH-R501-A	WH-R501	WH-R501
SPEC	CL-F	CL-R	CL-F	CL-R	CL-F	CL-R
Color	1	Black	Black	Black	Black	Black
	2	-	-	Silver	Silver	Silver
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	-	8/9/10	-	8/9/10
O.L.D. (mm)	100	130	100	130	100	130
Wheel Size	622x15C	622x15C	622x15C	622x15C	622x15C	622x15C
Rim	Height (mm)	24	24	24	24	24
	Width (mm)	20.8	20.8	20.8	20.8	20.8
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	-	-	-	-	-
Spokes	Number	20	24	20	24	20
	Bladed	-	-	X	X	-
	Butted	-	-	-	-	-
Axle Fixing method	QR	QR	QR	QR	QR	QR
QR skewer length (mm)	129	-	-	-	-	-
	133	X	-	X	-	X
	161	-	-	-	-	-
	163	-	X	-	X	-
	166	-	-	-	-	-
	168	-	X	-	X	-
	170	-	-	-	-	-
	173	-	-	-	-	-
Axle Length (mm)	108	141	108	141	108	141
Axle Diameter (mm)	9	10	9	10	9	10
Thru Axle Length x Inner Diameter (mm)	100 x 8	-	-	-	-	-
	100 x 12	-	-	-	-	-
	100 x 15	-	-	-	-	-
	110 x 20	-	-	-	-	-
	135 x 10	-	-	-	-	-
	135 x 12	-	-	-	-	-
	142 x 12	-	-	-	-	-
	150 x 12	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
Disc mount	CENTER LOCK	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-
	140 mm Disc brake rotor compatible	-	-	-	-	-
OPTBAL	-	-	-	-	-	-
D2 rim	-	-	-	-	-	-
OFFSET RIM	-	X	-	-	-	-
Digital adjustment system	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	Contact	Contact	Contact
Internal grease sleeve	-	-	-	-	-	-
Requires rim tape	X	X	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	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Color	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass
	Color	Silver	Silver	Silver	Silver	Silver
FREEHUB body	Material	-	Steel	-	Steel	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
QR housing	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
QR nut	Material	Resin	Resin	Resin	Resin	Resin
	Color	Black	Black	Black	Black	Black
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)	818 g	1,102 g	820 g	1,069 g	820 g	1,069 g
Note		* The adapter is needed to use 10-speed CS				

Wheel (Disc Brake)

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.	WH-R9170-C60	WH-R9170-C60	WH-R9170-C60	WH-R9170-C60	WH-R9170-C40	WH-R9170-C40
SPEC	TL-F12	TL-R12	TU-F12	TU-R12	TL-F12	TL-R12
Color	1	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-
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)	100	142	100	142	100	142
Wheel Size	622x17C	622x17C	700C	700C	622x17C	622x17C
Rim	Height (mm)	60	60	60	37	37
	Width (mm)	24	24	28	28	24
	Rim joint	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-
Spokes	Number	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	-	-	-	-	-
Axle Length (mm)	100	142	100	142	100	142
Axle Diameter (mm)	15	15	15	15	15	15
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	X	X	-	-
OFFSET RIM	-	-	-	-	-	X
Digital adjustment system	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-
Internal grease sleeve	-	-	-	-	-	-
Requires rim tape	X	X	-	-	X	X
Tire	Type	Tubeless	Tubeless	Tubular	Tubular	Tubeless
	Recommended size	23-622	23-622	23-28*	23-28*	23-622
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
	Color	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Color	Silver	Silver	Silver	Silver	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	-	-	-	-	-
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)	745 g	902 g	671 g	829 g	721 g	865 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		DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-R9170-C40	WH-R9170-C40	WH-RS770	WH-RS770	WH-RX830	WH-RX830
SPEC		TU-F12	TU-R12	TL-F12	TL-R12	TL-F	TL-R
Color	1	Series color	Series color	Black	Black	Black	Black
	2	-	-	-	-	-	-
Front / Rear		Front	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)		100	142	100	142	100	135
Wheel Size		700C	700C	622x17C	622x17C	622x17C	622x17C
Rim	Height (mm)	37	37	28	28	35	35
	Width (mm)	28	28	23	23	23	23
	Rim joint	-	-	Welded	Welded	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
Spokes	Number	24	24	24	24	24	24
	Bladed	X	X	X	X	X	X
	Butted	X	X	X	X	X	X
Axle Fixing method		12mm E-THRU	12mm E-THRU	12mm E-THRU	12mm E-THRU	QR	QR
QR skewer length (mm)	129	-	-	-	-	-	-
	133	-	-	-	-	X	-
	161	-	-	-	-	-	-
	163	-	-	-	-	-	-
	166	-	-	-	-	-	-
	168	-	-	-	-	-	X
	170	-	-	-	-	-	-
	173	-	-	-	-	-	X
Axle Length (mm)		100	142	100	142	108	146
Axle Diameter (mm)		15	15	15	15	14	14
Thru Axle Length x Inner Diameter (mm)	100 x 8	-	-	-	-	-	-
	100 x 12	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	-	-	-	-
	Cup	CBN finish	CBN finish	CBN finish	CBN finish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN/Polish	CBN/Polish
Disc mount	CENTER LOCK	X	X	X	X	X	X
	CENTER LOCK mount cover option	-	-	-	-	-	-
	140 mm Disc brake rotor compatible	X	X	X	X	X	X
OPTBAL		-	X	-	X	-	-
D2 rim		-	-	-	-	-	-
OFFSET RIM		-	X	-	-	-	-
Digital adjustment system		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal grease sleeve		-	-	-	-	X	X
Requires rim tape		-	-	-	-	-	-
Tire	Type	Tubular	Tubular	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	23-28"	23-28"	25-622 - 38-622	25-622 - 38-622	25-622 - 38-622	25-622 - 38-622
		28-28"	28-28"	-	-	-	-
Rim	Material	Carbon	Carbon	Carbon+AL	Carbon+AL	Carbon+AL	Carbon+AL
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Color	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Color	Black	Black	Black	Black	Black	Black
FREEHUB body	Material	-	Titanium	-	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
QR housing	Material	-	-	-	-	Aluminum	Aluminum
	Finish	-	-	-	-	Anodized	Anodized
QR nut	Material	-	-	-	-	Resin	Resin
	Color	-	-	-	-	Black	Black
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)		626 g	774 g	735 g	904 g	829 g	993 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-RX31-CL-F12	WH-RX31-CL-R12	WH-RX31-CL-F	WH-RX31-CL-R	WH-RS170	WH-RS170
SPEC		CL-F12	CL-R12	CL-F	CL-R	CL-F12	CL-R12
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	White	White
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)		100	142	100	135	100	142
Wheel Size		622x17C	622x17C	622x17C	622x17C	622x17C	622x17C
Rim	Height (mm)	24	24	24	24	24	24
	Width (mm)	23	23	23	23	23	23
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	-	-	-	-	-	-
Spokes	Number	24	24	24	24	28	28
	Bladed	-	-	-	-	-	-
	Butted	-	-	-	-	-	-
Axle Fixing method		12mm E-THRU	12mm E-THRU	QR	QR	12mm E-THRU	12mm E-THRU
QR skewer length (mm)	129	-	-	-	-	-	-
	133	-	-	x	-	-	-
	161	-	-	-	-	-	-
	163	-	-	-	-	-	-
	166	-	-	-	-	-	-
	168	-	-	-	x	-	-
	170	-	-	-	-	-	-
173	-	-	-	x	-	-	
Axle Length (mm)		100	142	108	146	100	142
Axle Diameter (mm)		15	15	15	15	15	15
Thru Axle Length x Inner Diameter (mm)	100 x 8	-	-	-	-	-	-
	100 x 12	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	-	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
Disc mount	CENTER LOCK	X	X	X	X	x	x
	CENTER LOCK mount cover option	-	-	-	-	-	-
	140 mm Disc brake rotor compatible	X	X	X	X	x	X
OPTBAL		-	-	-	-	-	-
D2 rim		-	-	-	-	-	-
OFFSET RIM		-	-	-	-	-	-
Digital adjustment system		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal grease sleeve		X	X	X	X	x	x
Requires rim tape		X	X	X	X	x	x
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size	25-622	25-622	25-622	25-622	25-622	25-622
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized (Black)/ Painted (White)	Anodized (Black)/ Painted (White)
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Color	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Brass	Brass
	Color	Black	Black	Black	Black	Silver	Silver
FREEHUB body	Material	-	Steel	-	Steel	-	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Aluminum	Aluminum	Steel	Steel
	Finish	-	-	Anodized	Anodized	-	-
QR lever	Material	-	-	Aluminum	Aluminum	-	-
	Finish	-	-	Anodized	Anodized	-	-
QR housing	Material	-	-	Aluminum	Aluminum	-	-
	Finish	-	-	Anodized	Anodized	-	-
QR nut	Material	-	-	Resin	Resin	-	-
	Color	-	-	Black	Black	-	-
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)		873 g	1,072 g	899 g	1,093 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

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO
Model no.		WH-RX010	WH-RX010
SPEC		CL-F	CL-R
Color	1	Black	Black
	2	White	White
Front / Rear		Front	Rear
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds		-	10*/11
O.L.D. (mm)		100	135
Wheel Size		622x17C	622x17C
Rim	Height (mm)	24	24
	Width (mm)	23	23
	Rim joint	Sleeved	Sleeved
	Brazed reinforcement	-	-
Spokes	Number	28	28
	Bladed	-	-
	Butted	-	-
Axle Fixing method		QR	QR
QR skewer length (mm)	129	-	-
	133	X	-
	161	-	-
	163	-	-
	166	-	-
	168	-	X
	170	-	-
173	-	X	
Axle Length (mm)		108	146
Axle Diameter (mm)		10	10
Thru Axle Length x Inner Diameter (mm)	100 x 8	-	-
	100 x 12	-	-
	100 x 15	-	-
	110 x 20	-	-
	135 x 10	-	-
	135 x 12	-	-
	142 x 12	-	-
Bearing	Stainless ball	-	-
	Cup	Polish	Polish
	Cone	CBN finish	CBN finish
Disc mount	CENTER LOCK	X	X
	CENTER LOCK mount cover option	-	-
	140 mm Disc brake rotor compatible	X	X
OPTBAL		-	-
D2 rim		-	-
OFFSET RIM		-	-
Digital adjustment system		-	-
Seal	Hub	Contact	Contact
	FREEHUB body	-	Contact
Internal grease sleeve		-	X
Requires rim tape		X	X
Tire	Type	Clincher	Clincher
	Recommended size	25-622 - 38-622	25-622 - 38-622
Rim	Material	Aluminum	Aluminum
	Finish	Anodized (Black)/ Painted (White)	Anodized (Black)/ Painted (White)
Spoke	Material	Stainless steel	Stainless steel
	Color	Black	Black
Nipple	Material	Brass	Brass
	Color	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
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)		982 g	1,177 g
Note			* 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		

URBAN SPORT

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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		-	-	
Shifting lever cable	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
		Reach adjust	Tool less	-
		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-R
	Standard 2	-
	Option 1	K04S-R
	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 brake rotor		SM-RT500-SS
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 FD-5800
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:shingle, Push:double	* I-SPEC II

Crankset

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
Chain line (mm)		43.5	46.6
P.C.D. left / right (mm)		96	96
Gear arms (pcs)		4 arms	4 arms
Chain ring 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	-	-
Crank arm fixing bolt	With	X	X
	Without	-	-
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			

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	WH-U5000	WH-U5000	WH-U5000	
SPEC	CL-F	CL-R	CL-F12	CL-R12	
Color	1	Series color	Series color	Series color	
	2	-	-	-	
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)	100	135	100	142	
Wheel Size	622x17C	622x17C	622x17C	622x17C	
Rim	Height (mm)	40	40	40	
	Width (mm)	23	23	23	
	Rim joint	Sleeved	Sleeved	Sleeved	
	Brazed reinforcement	-	-	-	
Spokes	Number	24	24	24	
	Bladed	X	X	X	
	Butted	X	X	X	
Axle Fixing method	QR	QR	E-THRU	E-THRU	
QR skewer length (mm)	129	-	-	-	
	133	X	-	X	
	161	-	-	-	
	163	-	-	-	
	166	-	-	-	
	168	-	X	-	X
	170	-	-	-	-
173	-	X	-	X	
Axle Length (mm)	108	146	100	142	
Axle Diameter (mm)	9	10	12	12	
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	-	-	-	
	140mm disc brake rotor compatible	X	-	X	
OPTBAL	-	-	-	-	
D2 rim	-	-	-	-	
OFFSET RIM	-	-	-	-	
Digital adjustment system	-	-	-	-	
Seal	Hub	Contact	Contact	Contact	
	FREEHUB body	-	Contact	Contact	
Internal grease sleeve	X	X	X	X	
Requires rim tape	X	X	X	X	
Tire	Type	Clincher	Clincher	Clincher	
	Recommended size	25-622 38-622	25-622 38-622	25-622 38-622	
Rim	Material	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	
	Color	Polished	Polished	Polished	
Nipple	Material	Aluminum	Aluminum	Aluminum	
	Color	Anodized	Anodized	Anodized	
FREEHUB body	Material	-	Steel	-	
	Finish	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	
Axle	Material	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	-	
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)	1,093 g	1,287 g	1,071 g	1,261 g	
Note					

- ST
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ARCHIVE

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GENERAL

Chain

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

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

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

Chain Quick Link

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

Disc Brake Rotor

Series		XTR/SAINT	XTR/SAINT	SHIMANO	SHIMANO	SAINT/DEORE XT	SAINT/DEORE XT
Model no.		SM-RT99	SM-RT99-A	SM-RT900	SM-RT800	SM-RT86	SM-RT81
CENTER LOCK		X	X	X	X	-	X
6-bolt (P.C.D. 44mm)		-	-	-	-	X	-
ICE TECHNOLOGIES		X	X	X	X	X	X
ICE TECHNOLOGIES FREEZA		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	Anodized	Painted	Painted	Painted
Rotor	Material	Stainless steel+Aluminum+ Stainless steel	Stainless steel+Aluminum+ Stainless steel	Stainless steel+ Aluminum+ Stainless steel	Stainless steel+ Aluminum+ Stainless steel	Stainless steel+Aluminum+ Stainless steel	Stainless steel+Aluminum+ Stainless steel
	Finish	Polished	Polished	Polished	Polished	Polished	Polished
Pad compatibility	Metal	X	X	X	X	X	X
	Resin	X	X	X	X	X	X
Average weight (w/o lock ring)		173.0g (203mm) 132.3g (180mm) 118.1g (160mm)	95.0g (140 mm)	118g (160 mm) 100g (140 mm)	128g (160 mm) 108g (140 mm)	187.0 g (203 mm) 154.0 g (180 mm) 135.0 g (160 mm)	173.0 g (203 mm) 149.0 g (180 mm) 122.0 g (160 mm) 100.5 g (140 mm)
Note		w/ Radiator fin	w/ Radiator fin *for rear only in MTB usage	-	-	With anti loosen tightening plate	*for rear only in MTB usage

Series		DEORE XT	SHIMANO	SLX/DEORE	DEORE	METREA	SHIMANO
Model no.		SM-RT76	SM-RT70	SM-RT66	SM-RT64	SM-RT500-SS	SM-RT56
CENTER LOCK		-	X	-	X	X	-
6-bolt (P.C.D. 44mm)		X	-	X	-	-	X
ICE TECHNOLOGIES		-	X	-	-	X	-
ICE TECHNOLOGIES FREEZA		-	-	-	-	-	-
Outside diameter	203 mm	X	X	X	X	-	-
	180 mm	X	X	X	X	-	X
	160 mm	X	X	X	X	-	X
	140 mm	-	-	-	-	X	-
Alloy lock ring		-	-	-	-	X	-
Adapter	Material	Aluminum	Alloy	-	Aluminum	Allminum	-
	Finish	Painted	Painted	-	Painted	Painted	-
Rotor	Material	Stainless steel	Stainless steel/ Aluminum/ Stainless steel	Stainless steel	Stainless steel	Stainless steel/ Aluminum/ Stainless steel	Stainless steel
	Finish	Polished	Polished	Polished	Polished	Polished	Polished
Pad compatibility	Metal	X	X	X	X	X	-
	Resin	X	X	X	X	X	X
Average weight (w/o lock ring)		209 g (203 mm) 169 g (180 mm) 141 g (160 mm)	197 g (203 mm) 163 g (180 mm) 133 g (160 mm)	-	-	102.9 g	-
Note		With anti loosen tightening plate	-	With anti loosen tightening plate	-	-	With anti loosen tightening plate

Disc Brake Rotor

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-RT54	SM-RT30	SM-RT26	SM-RT10	SM-RTC60
CENTER LOCK		X	X	-	X	-
6-bolt (P.C.D. 44mm)		-	-	X	-	-
ICE TECHNOLOGIES		-	-	-	-	-
ICE TECHNOLOGIES FREEZA		-	-	-	-	-
Outside diameter	203 mm	-	-	-	-	-
	180 mm	X	X	X	X	-
	160 mm	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
	Finish	Polished	Polished	Polished	Polished	Polished
Pad compatibility	Metal	-	-	-	-	X
	Resin	X	X	X	X	X
Average weight (w/o lock ring)		-	-	-	-	-
Note		-	-	With anti loosen tightening plate	-	Disc brake rotor is fixed by 5-bolts with 74 mm PCD.

Disc Brake Hose

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBS	SM-BH90-SB	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	Short	Long	-	-
	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		

Disc Brake Rotor Adapter

Series		SHIMANO
Model no.		SM-RTAD05
Color	1	Black
	2	-
	3	-
Lock ring	Type	External serration
	Material	Steel
Rotor mount method		Torx bolts
Compatibility (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 rotor to CENTER LOCK mount type hub. Cannot be used with the 6-bolt rotor that is installed with an Aluminum adapter. (SM-RT86/76)

Outer Casing

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					

- CN
- SMCN
- RT
- BH
- RTAD
- OT
- SMCB
- SMCA
- PM
- DH
- LP
- SMRTX2
- SMAx
- SC
- PD
- PD
- PD
- PD

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

Hub Dynamo

Series		DEORE XT	DEORE XT	DEORE LX	DEORE LX	DEORE LX	ALIVIO	
Model no.		DH-T8000-3D	DH-T785-1D	DH-T675	DH-T670-3N	DH-T670-2N	DH-T4050-1D	
Regulation	StVZO	X	X	X	X	-	X	
	TPGBi	-	-	-	-	-	-	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Series color	Silver	Silver	Silver	Silver	Silver	
	2	-	Black	Black	Black	Black	Black	
	3	-	-	-	-	-	-	
Type		Disc brake	Disc brake	Disc brake	Regular	Regular	Disc brake	
CENTER LOCK mount type		X	X	X	-	-	X	
Voltage (V)		6	6	6	6	6	6	
Output (W)		3	1.5	3	3	2.4	1.5	
Wheel size	26-28 inch	X	-	X	X	X	-	
	20-28 inch	-	X	-	-	-	-	
	18-28 inch	-	-	-	-	-	X	
	16-28 inch	-	-	-	-	-	-	
	24-28 inch	-	-	-	-	-	-	
	20-24 inch	-	-	-	-	-	-	
	16-20 inch	-	-	-	-	-	-	
	Compatible wheel size (mm)	(646-716)	(492-716)	(646-716)	(646-716)	(646-716)	(448-716)	
QR type		X	X	X	X	X	X	
Nut type		-	-	-	-	-	-	
O.L.D. (mm)		100	100	100	100	100	100	
Flange Distance (mm)		52.1	54	52.1	60	60	51	
Offset (mm)		4	3.1	4	0	0	1.9	
Hole P.C.D. (mm)		70	57	70	70	70	67	
Axle length (mm)		108	108	108	108	108	108	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	-	-	-	
	Finish	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 & Painted	Anodized & Painted	Anodized & Painted	Anodized & Painted	Anodized & Painted	Painted	
QR	Axle	Material	Aluminum	Steel	Steel	Steel	Steel	
		Finish	Chromating	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
	QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
		Finish	Anodized	Anodized	Anodized	Anodized	Anodized	E-Coating
		Color	Black	Black	Silver	Silver	Silver	Black
	QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
		Finish	Anodized	Anodized	Anodized	Anodized	Anodized	E-Coating
	QR nut	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	-	-	-	-	-	-
133		X	X	X	X	X	X	
Average weight		503 g	425 g	559 g	550 g	550 g	565 g	
Note							* For LED light use only	

- CN
- SMCN
- RT
- BH
- RTAD
- OT
- SMCB
- SMCA
- PM
- DH
- LP
- SMRTX2
- SMAX
- SC
- PD
- PD
- PD
- PD

Hub Dynamo

Series		ALIVIO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		DH-T4000-1N	DH-3D72	DH-3D37-QR	DH-3D37-NT	DH-3D32-QR	DH-3D32-NT	
Regulation	StVZO	X	X	X	X	X	X	
	TPGBI	-	X	-	-	-	-	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Silver	Silver	Silver	Silver	Clear	Clear	
	2	Black	Black	Black	Black	Black	Black	
	3	-	-	-	-	-	-	
Type		Regular	Disc brake	Disc brake	Disc brake	Disc brake	Disc brake	
CENTER LOCK mount type		-	X	X	X	-	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		1.5	3	3	3	3	3	
Wheel size	26-28 inch	-	X	-	-	-	-	
	20-28 inch	X	-	-	-	-	-	
	18-28 inch	-	-	-	-	-	-	
	16-28 inch	-	-	X	X	X	X	
	24-28 inch	-	-	-	-	-	-	
	20-24 inch	-	-	-	-	-	-	
	16-20 inch	-	-	-	-	-	-	
	Compatible wheel size (mm)	(448-716)	(646-716)	(400-716)	(400-716)	(400-716)	(400-716)	
QR type		X	X	X	-	X	-	
Nut type		-	-	-	X	-	X	
O.L.D. (mm)		100	100	100	100	100	100	
Flange Distance (mm)		56.0	52.1	51	51	51.1	51.1	
Offset (mm)		0	3.8	4	3.6	4	3.6	
Hole P.C.D. (mm)		67	70	74	74	74	74	
Axle length (mm)		108	108	108	140	108	140	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	-	-	-	
	Finish	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	Painted	Anodized & Painted / Anodized	Painted	Painted	Painted	Painted	
QR	Axle	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Zinc plated	Zinc plated	Zinc plated	Manganese Phosphate Coated	Zinc plated	Manganese Phosphate Coated
	QR lever	Material	Aluminum	Aluminum	Steel	-	Steel	-
		Finish	E-Coating	Anodized	Nickel plated	-	Nickel plated	-
		Color	-	Silver / Black	-	-	-	-
	QR housing	Material	Steel	Aluminum	Steel	-	Steel	-
		Finish	E-Coating	Anodized	Nickel plated	-	Nickel plated	-
	QR nut	Material	Resin & Steel	Resin & Steel	Resin & Steel	-	Resin & Steel	-
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	-	-	-	-	-	-
133		X	X	X	-	X	-	
Average weight		580 g	559 g	650 g	680 g	685 g	705 g	
Note		* For LED light use only						

Hub Dynamo

Series		SHIMANO	CAPREO	SHIMANO	ALFINE	ALFINE	NEXUS	
Model no.		DH-3N72	DH-F703	DH-F703-S	DH-S701	DH-S501	DH-C6000-3N-NT	
Regulation	StVZO	X	X	X	X	X	X	
	TPGBI	-	-	-	-	-	X	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Silver	Silver	Silver	Silver	Silver	Silver	
	2	Black	-	-	Piano Black	Piano Black	Black	
	3	-	-	-	-	-	-	
Type		Regular	Regular	Regular	Disc brake	Disc brake	Regular	
CENTER LOCK mount type		-	-	-	X	X	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		3	3	3	1.5	3	3.0	
Wheel size	26-28 inch	X	-	-	-	X	-	
	20-28 inch	-	-	-	X	-	-	
	18-28 inch	-	-	-	-	-	-	
	16-28 inch	-	-	-	-	-	X	
	24-28 inch	-	-	-	-	-	-	
	20-24 inch	-	-	-	-	-	-	
	16-20 inch	-	X	X	-	-	-	
	Compatible wheel size (mm)	(646-716)	(400-536)	(400-536)	(492-716)	(646-716)	(400-716)	
QR type		X	X	X	X	X	-	
Nut type		-	-	-	-	-	X	
O.L.D. (mm)		100	74	74	100	100	100	
Flange Distance (mm)		60.0	44.6	44.6	54	52.1	60.0	
Offset (mm)		0	0	0	3.1	3.8	1.0	
Hole P.C.D. (mm)		70	74	74	57	70	74	
Axle length (mm)		108	82	82	108	108	140	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	X	X	-	-	-	
	28H	-	-	X	-	-	X	
	Finish	X	-	-	X	X	X	
	36H	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	X	X	
Others		-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized & Painted	Anodized	Painted	Anodized	Anodized	Painted	
QR	Axle	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Manganese Phosphate Coated
	QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	-
		Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
		Color	Silver	Black	Black	Silver	Silver	-
	QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	-
		Finish	Anodized	Anodized	Anodized	Anodized	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		560 g	590 g	590 g	430 g	564 g	712 g	
Note					* For LED light use only			

- CN
- SMCN
- RT
- BH
- RTAD
- OT
- SMCB
SMCA
- PM
- DH**
- LP
- SMRTX2
- SMAX
- SC
- PD
- PD
- PD

Hub Dynamo

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	
Model no.		DH-C6000-2N-NT	DH-C6000-2R	DH-C6000-1R	DH-C6000-1N	DH-C3000-3N-QR	DH-C3000-3N-NT	
Regulation	StVZO	-	-	X	X	X	X	
	TPGBI	-	-	-	-	X	X	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Silver	Silver	Silver	Silver	Silver	Silver	
	2	Black	Black	Black	Black	Black	Black	
	3	-	-	-	-	-	-	
Type		Regular	Hub Roller Brake	Hub Roller Brake	Regular	Regular	Regular	
CENTER LOCK mount type		-	-	-	-	-	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		2.4	2.4	1.5	1.5	3.0	3.0	
Wheel size	26-28 inch	-	X	X	-	-	-	
	20-28 inch	-	-	-	X	-	-	
	18-28 inch	-	-	-	-	-	-	
	16-28 inch	X	-	-	-	X	X	
	24-28 inch	-	-	-	-	-	-	
	20-24 inch	-	-	-	-	-	-	
	16-20 inch	-	-	-	-	-	-	
	Compatible wheel size (mm)	(400-716)	(646-716)	(646-716)	(448-716)	(400-716)	(400-716)	
QR type		-	-	-	-	X	-	
Nut type		X	X	X	X	-	X	
O.L.D. (mm)		100	100	100	100	100	100	
Flange Distance (mm)		60.0	58.1	58.1	56.0	60.0	60.0	
Offset (mm)		1.0	4.7	4.7	0	0.6	1.0	
Hole P.C.D. (mm)		74	76	76	67	74	74	
Axle length (mm)		140	140	140	140	108	140	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	-	-	X	
	Finish	-	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	-	-	-	
		Standard	-	X	X	-	-	
Electric power output connector	20-24 inch	-	-	-	-	-	-	
	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	Painted	Painted	
QR	Axle	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Manganese Phosphate Coated	Manganese Phosphate Coated	Manganese Phosphate Coated	Manganese Phosphate Coated	Manganese Phosphate Coated	Manganese Phosphate Coated
	QR lever	Material	-	-	-	-	Steel	-
		Finish	-	-	-	-	Nickel plated	-
		Color	-	-	-	-	-	-
	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	960 g	960 g	630 g	700 g	712 g	
Note				* For LED light use only	* For LED light use only			

Hub Dynamo

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	
Model no.		DH-C3000-2N-QR	DH-C3000-2N-NT	DH-C3000-1N	DH-C2100-N	DH-C2100-NC	DH-C2100-N-QR	
Regulation	StVZO	-	-	X	-	-	-	
	TPGBI	-	-	-	-	-	-	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	VIA	VIA	VIA	
Color	1	Silver	Silver	Silver	Silver	Silver	Silver	
	2	Black	Black	Black	Black	Black	Black	
	3	-	-	-	-	-	-	
Type		Regular	Regular	Regular	Regular	Regular	Regular	
CENTER LOCK mount type		-	-	-	-	-	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		2.4	2.4	1.5	0.9	0.9	0.9	
Wheel size	26-28 inch	-	-	-	-	-	-	
	20-28 inch	-	-	X	-	-	-	
	18-28 inch	-	-	-	-	-	-	
	16-28 inch	X	X	-	-	-	-	
	24-28 inch	-	-	-	X	-	X	
	20-24 inch	-	-	-	-	X	-	
	16-20 inch	-	-	-	-	-	-	
	Compatible wheel size (mm)	(400-716)	(400-716)	(448-716)	-	-	-	
QR type		X	-	-	-	-	X	
Nut type		-	X	X	X	X	-	
O.L.D. (mm)		100	100	100	93	93	100	
Flange Distance (mm)		60.0	60.0	56.0	58	58	58	
Offset (mm)		0.6	1.0	0	0.5	0.5	0.5	
Hole P.C.D. (mm)		74	74	67	60	60	60	
Axle length (mm)		108	140	140	155 / 150	155 / 150	108	
Spoke size		#14	#14	#14	#13/#14	#13/#14	#13 / #14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	-	X	-	
	Finish	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	-	-	-	
	Others	-	-	-	X (J2-A)	X (J2-A)	X (J2-A)	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted (Black) / Passivation (Silver)	Painted (Black) / Passivation (Silver)	Painted (Black) / Passivation (Silver)	
QR	Axle	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Manganese Phosphate Coated	Manganese Phosphate Coated	Manganese Phosphate Coated	Plating	Plating	Manganese Phosphate Coated
	QR lever	Material	Steel	-	-	-	-	Steel
		Finish	Nickel plated	-	-	-	-	Plated
		Color	-	-	-	-	-	Silver
	QR housing	Material	Steel	-	-	-	-	Steel
		Finish	Nickel plated	-	-	-	-	Plated
	QR nut	Material	Resin & Steel	-	-	-	-	Resin & Steel
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	X	-	-	-	-	x
133		X	-	-	-	-	x	
Average weight		700 g	705 g	600 g	491 g	491 g	474 g	
Note				* For LED light use only	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	

- CN
- SMCN
- RT
- BH
- RTAD
- OT
- SMCB
- SMCA
- PM
- DH**
- LP
- SMRTX2
- SMAX
- SC
- PD
- PD
- PD
- PD

Hub Dynamo

Series		NEXUS	SHIMANO	NEXUS	NEXUS	SHIMANO	SHIMANO	
Model no.		DH-C2100-N-QRC	DH-C2100-D-NT	DH-2N40-J	DH-2N40-JC	DH-2N40-JW	DH-2N40-JWC	
Regulation	StVZO	-	-	-	-	-	-	
	TPGBi	-	-	-	-	-	-	
	JIS	-	-	X	X	X	X	
	Others	VIA	VIA	-	-	-	-	
Color	1	Silver	Silver	Silver	Silver	Silver	Silver	
	2	Black	Black	Black	Black	Black	Black	
	3	-	-	-	-	-	-	
Type		Regular	Disc brake	Regular	Regular	Regular	Regular	
CENTER LOCK mount type		-	X	-	-	-	-	
Voltage (V)		6	6V	6	6	6	6	
Output (W)		0.9	0.9W	2.4	2.4	2.4	2.4	
Wheel size	26-28 inch	-	-	-	-	-	-	
	20-28 inch	-	-	-	-	-	-	
	18-28 inch	-	-	-	-	-	-	
	16-28 inch	-	-	-	-	-	-	
	24-28 inch	-	X	X	-	X	-	
	20-24 inch	X	-	-	X	-	X	
	16-20 inch	-	-	-	-	-	-	
	Compatible wheel size (mm)	-	-	-	-	-	-	
QR type		X	-	-	-	-	-	
Nut type		-	-	X	X	X	X	
O.L.D. (mm)		100	100	93	93	100	100	
Flange Distance (mm)		58	52.5	60.0	60.0	60.0	60.0	
Offset (mm)		0.5	4.8	0	0	3	3	
Hole P.C.D. (mm)		60	60	69	69	69	69	
Axle length (mm)		108	140	155 / 150	150	140	140	
Spoke size		#13 / #14	#13 / #14	#13 / #14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	X	-	-	
	Finish	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	X	
	E2 type	-	-	-	-	-	-	
	Others	X (J2-A)	X (J2-A)	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum & Steel	Aluminum & Steel	Aluminum & Steel	Aluminum & Steel	
	Finish	Painted (Black) / Passivation (Silver)	Painted (Black) / Passivation (Silver)	Painted / Passivation	Painted / Passivation	Painted / Passivation	Painted / Passivation	
QR	Axle	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Manganese Phosphate Coated	Plating	Zinc plated	Zinc plated	Zinc plated	Zinc plated
	QR lever	Material	Steel	-	-	-	-	-
		Finish	Plated	-	-	-	-	-
		Color	Silver	-	-	-	-	-
	QR housing	Material	Steel	-	-	-	-	-
		Finish	Plated	-	-	-	-	-
	QR nut	Material	Resin & Steel	-	-	-	-	-
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	x	-	-	-	-	-
133		x	-	-	-	-	-	
Average weight		474 g	500 g	630 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	

Light

Series		NEXUS	SHIMANO	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		LP-C2207-B	LP-C2207-C	LP-C2200-S	LP-C2200-B	LP-C2201-S	LP-C2201-B
Function name		HILMO	HILMO	HILMO	HILMO	HILMO	HILMO
Auto light		-	-	-	-	-	-
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	Silver/Black/Black	CP/Silver/Black	CP	CP	CP	CP/Black
	2	Black/Gray/Black	CP/Silver/White	Silver(Painted)	Silver(Painted)	Silver(Painted)	Silver(Painted)
	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	-	-	-	-
	grey	X	-	X	X	X	X
Electric wire length(mm)	Tab-on type	-	-	-	-	-	-
	Connector type	710	500	405	715	405	715
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

- CN
- SMCN
- RT
- BH
- RTAD
- OT
- SMCB
- SMCA
- PM
- DH
- LP
- SMRTX2
- SMAX
- SC
- PD
- PD
- PD
- PD

Light

Series		SHIMANO	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		LP-C2250-H	LP-C2111-S	LP-C2111-B	LP-X101-H	LP-X101	LP-X100
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	CP/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
	grey	-	X	X	-	-	-
Electric wire length(mm)	Tab-on type	-	-	-	410	400	675
	Connector type	783	405	715	160	120	125
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

Light

Series		NEXUS	TOURNEY
Model no.		LP-NX60-R	LP-RTX2
Function name		-	-
Auto light		-	-
Type of light	Front	X	-
	Tail(Rear)	-	X
Hub dynamo output		6 V-2.4 W	6 V-2.4 W
Main light		Super Bright Red LED	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)	X (if used with LP-X103)
Reflector integration		-	-
Electric power input	Tab-on type	-	-
	Connector type	X	X
Light body material		Resin	Resin
Color	1	Silver(Painted)	Black
	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	-	X
	seat stay	-	X (seat stay type)
Compatible seat stay diameter (mm)	13	-	X (seat stay type)
	16	-	X (seat stay type)
	19	-	X (seat stay type)
Compatible handle bar diameter (mm)	22.2	-	-
	25.4	-	-
	31.8	-	-
Switch	Auto	-	-
	Manual (on)	-	-
	Manual (off)	-	-
	Permanent	X	X
Electric wire color	Black	X	X
	grey	X	X (seat stay type)
Electric wire length(mm)	Tab-on type	-	-
	Connector type	Available	910 1140 / 1240 (seat stay type)
EZ cable clamp		-	3 5 (seat stay type)
Cord length adjuster		-	X
Compatible wheel size		22/24/26/27 inch	20/22/24 inch CTB - (seat stay type)
Note		* Specification for Japan market (attached with special stay. 2 kinds of stays are available. One for IHG, another for RH/FH)	* Specification for Japan market

- CN
- SMCN
- RT
- BH
- RTAD
- OT
- SMCB
SMCA
- PM
- DH
- LP
- SMRTX2
- SMAX
- SC
- PD
- PD
- PD
- PD

Light (SMRTX2)

Series		TOURNEY
Model no.		SM-RTX2
Color	1	Black
	2	Gray
Size (mm)	13	X
	16	X
	19	X
Note		Frame clip

ARCHIVE

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	SM-AX78	SM-AX78-B
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 adjust type		X	X	I-type (left housing)	I-type (left housing)	I-type (left housing)	I-type (left housing)
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 (Black)	Anodized (Black)
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (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	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight		65 g	74 g	75 g	76 g	77 g	78 g
Note							

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		AX-MT500-142x12	AX-MT500-148x12	SM-AX58	SM-AX58-B	SM-AX76	SM-AX76-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 adjust type		I-type (left housing)	I-type (left housing)	I-type (left housing)	I-type (left housing)	Right fixing nut	Right fixing nut
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	166	172	171	177
	Hollow axle	X	X	X	X	X	X
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized (Silver)	Anodized (Silver)	Anodized (Silver)	Anodized (Silver)	Anodized (Black)	Anodized (Black)
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted (Black)	Painted (Black)	Painted (Black)	Painted (Black)	Anodized (Black)	Anodized (Black)
Housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted (Black)	Painted (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)
Fixing nut	Material	-	-	-	-	Aluminum	Aluminum
	Finish	-	-	-	-	Anodized (Black)	Anodized (Black)
Average weight		79 g	80 g	81 g	82 g	69 g	71 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 adjust type		Right fixing nut	Right fixing nut
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			

- CN
- SMCN
- RT
- BH
- RTAD
- OT
- SMCB
SMCA
- PM
- DH
- LP
- SMRTX2
- SMAX
- SC
- PD
- PD
- PD
- PD

Cycle Computer

Series	CI-DECK	
Model no.	SC-CI300	
Compatible system	Mechanical	
Attachment 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	XT	XT	SHIMANO	SHIMANO
Model no.	PD-M9000	PD-M9020	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)	Trekking (SPD/Flat)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)
Binding	Dual Sided	Dual Sided	Single 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	X	X	-	-	-	-
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-PD60	Integrated	SM-PD60	SM-PD22	SM-PD60
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized (Silver) / Painted (Bronze) / Anodized (Black) / Painted (White)
Cage	Material	-	-	-	-	-
Average weight (pair)	310 g	379 g	343 g	408 g	352 g	455 g
Note			1.0mm cleat spacer included	1.0mm cleat spacer included		

Series	SHIMANO	SHIMANO	SAINT	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-M520	PD-M505	PD-M820	PD-M647	PD-M545	PD-M424
Color 1	Silver	Silver	Black	Black	Silver	Black
Color 2	Black	Black	-	-	-	-
Color 3	White	-	-	-	-	-
Type	Off-Road (SPD)	Off-Road (SPD)	Off-Road/DH (SPD)	Off-Road/BMX (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	X
Integrated cage	-	-	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-PD40	SM-PD40
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Polished (Silver) / Painted (Black) / Painted (White)	Polished (Silver) / Painted (Black)	Painted	Painted	Painted
Cage	Material	-	-	Resin	Aluminum	Resin
Average weight (pair)	380 g	443 g	568 g	568 g	567 g	472 g
Note			1.0mm cleat spacer included			

- CN
- SMCN
- RT
- BH
- RTAD
- OT
- SMCB
SMCA
- PM
- DH
- LP
- SMRTX2
- SMAX
- SC
- PD
- PD
- PD

Pedal (SPD)

Series	SHIMANO	DEORE XT	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-M324	PD-T8000	PD-A600	PD-A530	PD-A520	PD-ED500
Color 1	Silver	Black	Gray	Silver	Silver	Dark Grey
Color 2	-	-	-	Black	-	-
Color 3	-	-	-	-	-	-
Type	Multi-purpose (SPD/Flat)	Trekking (SPD/Flat)	Road (SPD)	Multi-purpose (SPD/Flat)	Road (SPD)	Road (SPD)
Binding	Single Sided	Single Sided	Single Sided	Single Sided	Single 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	-	-	-	-	-	-
Integrated cage	-	-	-	-	-	X
Offset binding	-	-	-	-	-	-
Oval shape axle body housing	-	-	-	-	-	-
Cleat included	SM-SH56	SM-SH56	SM-SH51	SM-SH51	SM-SH51	SM-SH56
Optional cleat	SM-SH51	SM-SH51	SM-SH56	SM-SH56	SM-SH56	SM-SH51
Reflector	Y41B98010	Integrated	SM-PD62	SM-PD61	SM-PD59	SM-PD60
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Polished/Painted	Painted	Polished
Cage	Material	Steel	-	-	-	-
Average weight (pair)	533 g	392 g	286 g	383 g	315 g	442 g
Note						Light action

Pedal (CLICK'R)

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-MT50	PD-T421	PD-T400
Color 1	Black	Black	Black
Color 2	-	-	White
Color 3	-	-	-
Type	Recreational use (Click'R)	Trekking (CLICK'R)	Trekking (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	SM-PD60	Integrated	Integrated
Pedal body	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Cage	Material	Resin	Resin
Average weight (pair)	498 g	418 g	507 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-PD67	SM-PD67	SM-PD64
Pedal body	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted
Cage	Material	-	-	-
Average weight (pair)		477 g	SM : 469 g/ML : 514 g	535 g
Note		12 pins per platform	10 pins per platform 2 platform size available (SM/ML)	9 pins per platform

Pedal (SPD-SL)

Series	DURA-ACE	ULTEGRA	105	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-R9100	PD-R8000	PD-5800	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	Nickel 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	Resin	Aluminum	Aluminum
	Finish	-	-	Painted	Painted	Painted
Body cover material	Polished Special Stainless	Stainless	Stainless	Stainless	Resin	Resin
Wide platform	X	X	X	X	-	-
Road clearance	35 °	33 °	32 °	32 °	34 °	34 °
Average weight (pair)	228 g	248 g	285 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	Lighter spring tension	

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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)
Suspension switch	-	-(X)	-	-(X)
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-SGS	RD-M9050-GS	RD-M8050-GS
Pulley cage		SGS	G5	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
Mount	Direct attachment (Conventional)	X	X	X
	Direct mount compatible	X*	X*	X*
Max. front difference		18T	10T	10T
Total capacity		41T**	35T**	35T**
Low sprocket	Max.	40T (3x11-speed) 42T (2x11-speed) 46T (1x11-speed)	42T (2x11-speed) 46T (1x11-speed)	42T (2x11-speed) 46T (1x11-speed)
	Min.	40T	40T	40T
Top sprocket	Max.	11T	11T	11T
	Min.	11T	11T	11T
Fluoric 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
E-TUBE port (QTY)		1	1	1
Average weight		295 g	290 g	319 g
Note		*w/o bracket spec available. ** The D12 system limits cross chain to prevent a chain from getting loose.	*w/o bracket spec available. ** The D12 system limits cross chain to prevent a chain from getting loose.	*w/o bracket spec available. ** The D12 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	28.6mm	w/ SM-FD905-L,SM-FD905-H	w/ SM-FD905-L,SM-FD905-H	w/ SM-AD905-L,SM-AD905-H
		31.8mm	w/ SM-FD905-L,SM-FD905-H	w/ SM-FD905-L,SM-FD905-H	w/ SM-AD905-L,SM-AD905-H
		34.9mm	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**	
Chain line (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	-	-	
Link bushings		7	7	7	
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	
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 chain line is 3 mm outboard.	* for FC 3 mm outboard spec, 51.8 mm ** Compatible with the special crankset which chainline is 3 mm outboard.	

Mount Adapter for Front Derailleur

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-FD905-H	SM-FD905-L	SM-FD905-D	SM-FD905-E
Mount type		High clamp band	Low clamp band	Direct mount	E type mount
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		33 g	42.1 g	21.1 g	27.1 g
Note		*W/Multi Clamp Band	*W/Multi Clamp Band	Compatible with the special crankset which chainline is 3 mm outboard.	Compatible with the special crankset which chainline is 3 mm outboard.

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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
Function name		INTER-11	INTER-8	INTER-8	INTER-8	INTER-8	INTER-8
Model no.		SG-S7051-11	SG-S7051-8	SG-C6061-8R	SG-C6061-8V	SG-C6061-8C	SG-C6061-8D
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	INTER-M	V-BRAKE	Coaster Brake	CENTER LOCK disc brake
	Recommended Model	-	-	-	-	-	-
Speeds		11-speed	8-speed	8-speed	8-speed	8-speed	8-speed
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	1,660 g	1,685 g	2,040 g	1,680 g
Note		-	-	-	-	-	-

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Internal Geared Hub

Series		NEXUS
Function name		INTER-8
Model no.		SG-C6061-8CD
Color	1	Silver
	2	Black
	3	-
Brake Type	Mount Type	Coaster and Special disc brake mount for SM-RTC60
	Recommended Model	-
Speeds		8-speed
Gear ratio	Total	307%
	1	0.527
	2	0.644
	3	0.748
	4	0.851
	5	1
	6	1.223
	7	1.419
	8	1.615
	9	-
	10	-
11	-	
Shifting Structure		DI2
Silent clutch		X
Gear change support mechanism		X
Shifting POWER MODULATOR		X
Driving efficiency		High
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	X
	193	-
	Others	-
Flange distance (mm)		58.3
Flange diameter (mm)		105.2
Flange width (mm)	Right	3.2
	Left	3.2
Offset (mm)		2.7
P.C.D Left / Right. (mm)		92.6
Hub shell	material	Aluminum
	finish	Painted
Average weight		2,080 g
Note		

Motor Unit

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

Shifting Switch

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

Shifting/Brake Lever

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		ST-R9150-R	ST-R9150-L	ST-R8050-R	ST-R8050-L	ST-6870	ST-6871
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER
Shifting lever specifications	Front speeds	-	2	-	2	2	2
	Rear speeds	11	-	11	-	11	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	23.8 / 24.2	23.8 / 24.2	23.8 / 24.2	INNER DIA. 19.0 - 22.5
	SLR-EV	X	X	X	X	X	X
Bracket	Material	CFRP	CFRP	GFRP	GFRP	GFRP	CFRP
	Finish	-	-	-	-	-	-
Electric button	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Lever	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Painted	Anodized
Master unit		-	-	-	-	-	-
Firmware update by E-TUBE PROJECT		X	X	X	X	X	X
E-TUBE port (pcs)		2	2	2	2	4	0
E-TUBE connector (pcs)		0	0	0	0	0	2
Port for remote sprinter shifter (pcs)		1	1	1	1	2	0
Average weight		230 g/pair	230 g/pair	147.5 g	147.5 g	303.2 g/pair	148 g/pair
Note		-	-	-	-	-	-

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA
Model no.		ST-R9160-R	ST-R9160-L	ST-R8060-R	ST-R8060-L
Lever type		TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER
Shifting lever specifications	Front speeds	SYNCHRONIZED SHIFT	SYNCHRONIZED SHIFT	SYNCHRONIZED SHIFT	SYNCHRONIZED SHIFT
	Rear speeds	Outward (default)	Inward (default)	Outward (default)	Inward (default)
	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	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5
	SLR-EV	X	X	X	X
Bracket	Material	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-
Electric button	Material	CFRP	CFRP	CFRP	CFRP
	Finish	-	-	-	-
Lever	Material	CFRP	CFRP	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized
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
Port for remote sprinter shifter (pcs)		0	0	0	0
Average weight		127 g/pair	127 g/pair	138 g/pair	138 g/pair
Note		-	-	-	-

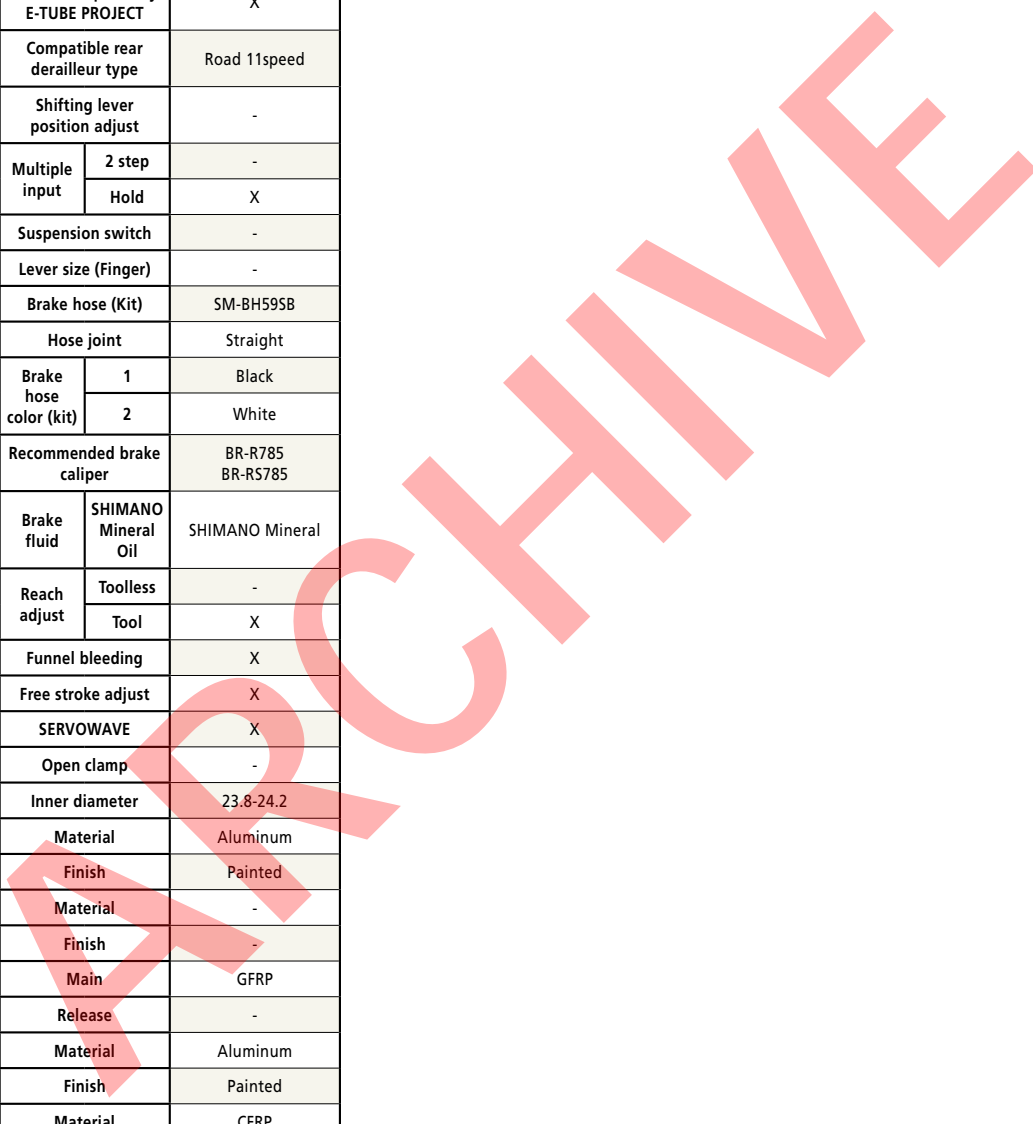
- SW
- RD
- FD
- SMAD
- SC
- SG
- MU
- SW
- ST
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- RD
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- SMAD
- EW
- EWC
- GM
- WU
- JC
- JC
- BT
- BM
- SMBT
- SMBC
- BCC
- SMPCE

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	-	-	-	-	1	1	
	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	-	-	-	-	-	-
	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		320 g/pair	320 g/pair	99 g	99 g	180 g	180 g	
Note								

Shifting/Brake Lever (Hydraulic disc brake)

Series		SHIMANO	
Model no.		ST-R785	
Color	1	Gray	
	2	-	
Shifter type		DUAL CONTROL LEVER	
Shifting lever specifications	Front speeds	2	
	Rear speeds	11	
	Remote switch	-	
	Master unit	-	
	Firmware update by E-TUBE PROJECT	X	
	Compatible rear derailleur type	Road 11speed	
	Shifting lever position adjust	-	
	Multiple input	2 step	-
		Hold	X
Suspension switch	-		
Brake lever specifications	Lever size (Finger)	-	
	Brake hose (Kit)	SM-BH595B	
	Hose joint		Straight
	Brake hose color (kit)	1	Black
		2	White
	Recommended brake caliper		BR-R785 BR-RS785
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral
	Reach adjust	Toolless	-
		Tool	X
	Funnel bleeding	X	
Free stroke adjust	X		
SERVOWAVE	X		
Clamp band	Open clamp	-	
	Inner diameter	23.8-24.2	
Bracket	Material	Aluminum	
	Finish	Painted	
Electric button	Material	-	
	Finish	-	
Shifter Lever body	Main	GFRP	
	Release	-	
Lever	Material	Aluminum	
	Finish	Painted	
Master cylinder	Material	CFRP	
	Finish	-	
E-TUBE connector (pcs)		0	
E-TUBE port (pcs)		1 (each ST R/L)	
Port for remote sprinter shifter (pcs)		0	
Average weight		500 g/pair	
Note			



- 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

Shifting Switch

Series	SHIMANO	DURA-ACE	SHIMANO	SHIMANO	SHIMANO
Model no.	SW-R9150	SW-R9160	SW-R671	SW-R610	SW-R600
Switch type	Option SW, pair	Bar-end SW for TT, pair	Remote Triathlon shifter Current 2 button design	Remote sprinter shifter	Remote satellite shifter (Climbing shifter)
Position	On road Bar	DH Bar	DH Bar	Anywhere	Anywhere
Compatible electric wire	-	-	EW-SD50	-	EW-SD50
Master unit	-	-	-	-	-
Firmware update by E-TUBE PROJECT	X	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
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		12T	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
Fluoric 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	Anodized	Anodized	Painted	Painted	Painted
Inner link	Material	CFRP	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
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		204 g	242 g	249 g	257 g	268 g	270 g
Note		w/o bracket spec available	*w/o bracket spec available	*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
Chain line (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	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-AD91-L	SM-AD91-MS	SM-AD90-L	SM-AD90-M	SM-AD90-MS
Front Clamp Band	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Anodized	Anodized
Rear Clamp Band	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Anodized	Anodized
Clamp band diameter	28.6 mm	-	X*	-	-	X*
	31.8 mm	-	X	-	X	X
	34.9 mm	X	-	X	-	-
Note			* w/Multi Clamp Band		* w/Multi Clamp Band	* w/Multi Clamp Band

Electric Wire

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

Cord Cover

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

Grommet

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

SW

RD

FD

SMAD

SC

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MU

SW

ST

ST

SW

RD

FD

SMAD

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

SMPCE

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
	DI2 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

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

Battery Mount

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	BM-DN100-S	BM-DN100-L	BM-DN100-I
Specification	Short size battery mount	Long size battery mount	Long size battery mount
Wire routing	External/Internal	External	Internal
Master unit	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	SM-BTR1
Charging cord	Including SM-BCR2	SM-BCC1
Note	PC linkage device with limited function	

Battery Cable

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

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

PC Linkage Device

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

SW

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SMAD

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SW

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SMAD

EW

EWC

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WU

JC

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ARCHIVE

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E-BIKE

Cycle Computer

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

Switch Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SW-E8000-L	SW-E6010-L	SW-E6010-R	SW-E6000
Switch Type		FIREBOLT	-	-	-
Color	1	Standard	Standard	Standard	Gray
	2	-	-	-	Black
	3	-	-	-	-
Usage		For assist	For assist	For SEIS shift	* For assist or SEIS shift
Right SW		-	-	X	X
Left SW		X	X	-	X
Switch numbers (pcs)		2	3	3	3
Master unit		-	-	-	-
Firmware update by E-TUBE PROJECT		X	X	X	X
E-TUBE port (pcs)		1	0	0	0
E-TUBE connector (pcs)		0	1	1	1
System On-Off		-	-	-	-
Assist Mode Change		X	X	-	X
Display change		-	X	X	* X
Automatic/Manual Change		-	-	X	* X
Light On-Off		* -	* X	-	* X
Multiple input	2 step	-	-	-	* X
	Hold	-	-	** X	-
Note		* By Setting Menu	* Set by E-TUBE PROJECT	** Available for RD	* Set by E-TUBE PROJECT

SC

SW

DU

SMDU

SMDU

RT

SMDU

FC

CRE

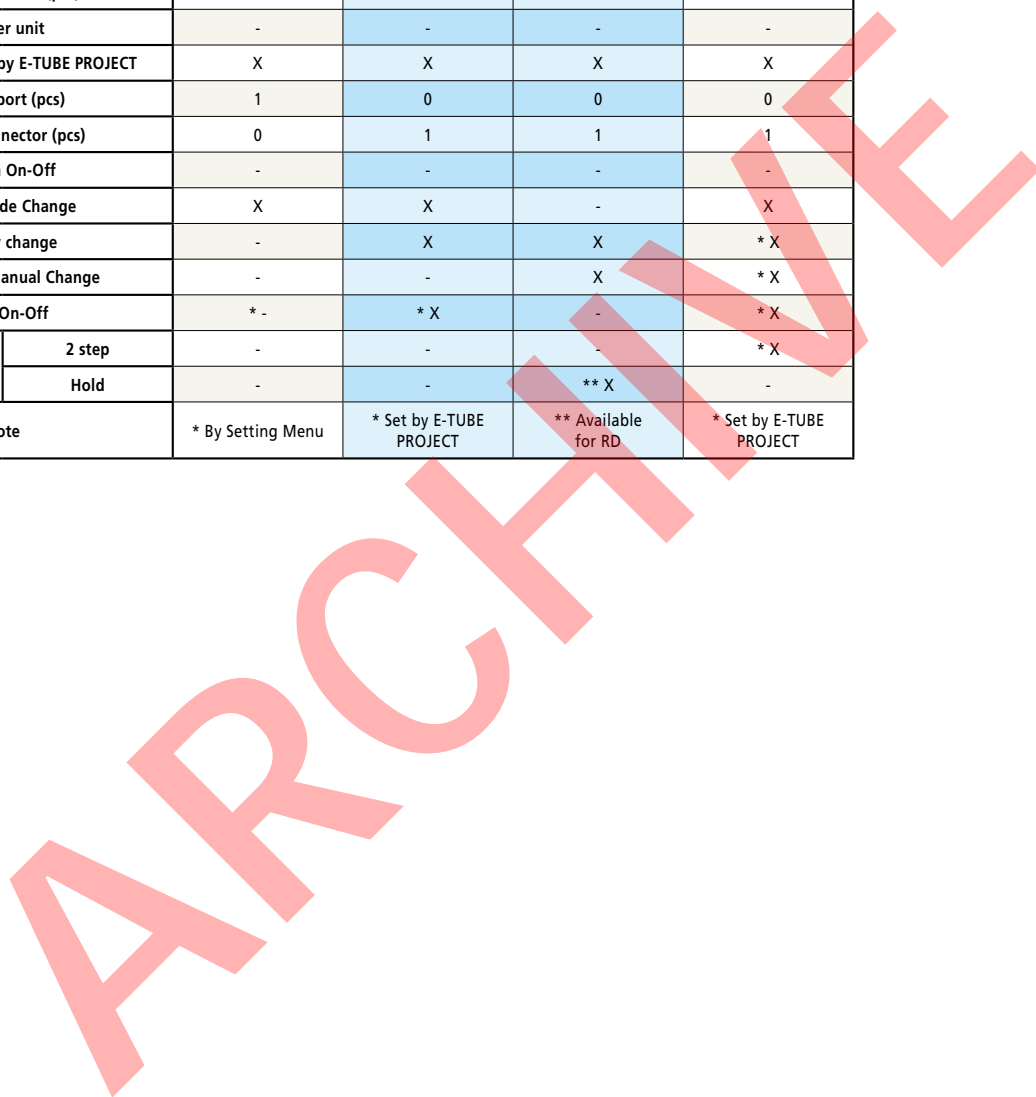
CD

BT

BM

EC

EWEX



Drive Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-E8080	DU-E8000	DU-E6002	DU-E6012	DU-E6001	DU-E6010
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	Gray	-	Gray	-
	3	-	-	-	-	-	-
Compatible Brake type		Disc brake	Disc brake, V-BRAKE	V-BRAKE, Roller brake, Disc brake	Coaster brake	V-BRAKE, Roller brake, Disc brake	Coaster brake
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
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	*1,300-2,400	*1,300-2,400	*1,300-2,400	*1,300-2,400
Maximum Rated Power (Watt)		250	250	250	250	250	250
Maximum torque (Nm)		70	70	50	50	50	50
Rated Voltage		DC 36V	DC 36V	DC 36V	DC 36V	DC 36V	DC 36V
DI2 compatible	IHG	-	-	*X	*X	*X	*X
	RD	*X	*X	*X	-	-	-
Light off road compatible	IHG	-	-	*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	-	-
	Other	-	-	-	-	-	-
Riding Characteristics setting	Dynamic	-	*X	-	-	-	-
	Explorer	-	*X	-	-	-	-
	Customize	-	*X	-	-	-	-
Assist pattern Setting	Light off-road	-	-	*X	*X	*X	-
	Comfort	X	-	*X	*X	*X	X
Maximum assist ratio (%)	BOOST	-	X	-	-	-	-
	HIGH	X	-	230	230	230	230
	TRAIL	-	X	-	-	-	-
	NORMAL	X	-	150	150	150	150
ECO	X	X	70	70	70	70	
Power supply for front light		DC 6V	DC 6V	DC 6V	DC 6V	**** DC 6V	**** DC 6V
Power supply for rear light		DC 6V	DC 6V	DC 6V	DC 6V	**** DC 6V	**** DC 6V
Maximum current supply front and rear light total (A)		2	2	2	2	1	1
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	2	2
Terminal for Light (pcs)		1	1	1	1	0	0
Port for Speed Sensor (pcs)		1	1	1	1	1	1
Chain case compatible		-	-	X	X	X	X
Chain Device compatible		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	-	-
	Standard	-	X	X	X	X	X
	Intelligent	-	*** X	-	-	-	-
	Quick	-	X	X	X	-	-
Automatic shift	IHG 11s	-	-	-	-	-	-
	IHG 8s	-	-	X	X	X	X
	RD	-	-	-	-	-	-
SYMPHOMATIC	IHG	-	-	X	X	X	X
	RD	-	-	-	-	-	-
Compatible BB type		24 mm Axle Serration	24 mm Axle Serration	Square type	Square type	Square type	Square type
DU fixing bolt (pcs)		-	-	-	-	-	-
Note		* Set by E-TUBE PROJECT ** By using SM-DUE11	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** By using RD-M9050/RD-M8050	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11	* Set by E-TUBE PROJECT ** By using SM-DUE10	* Set by E-TUBE PROJECT **** By using SM-DUE01	* Set by E-TUBE PROJECT **** By using SM-DUE01

Drive Unit

Series		SHIMANO
Model no.		DU-E6050
Color	1	Black
	2	Gray
	3	-
Compatible Brake type		V-BRAKE, Roller brake, Disc brake
Motor type		Brushless motor
Position		Mid ship
Compatible Wheel Size (mm)		*1,300-2,400
Maximum Rated Power (Watt)		250
Maximum torque (Nm)		50
Rated Voltage		DC 36V
DI2 compatible	IHG	*X
	RD	-
Light off road compatible	IHG	-
	RD	*X
Maximum support bike speed	24 km/h	-
	25 km/h	-
	20 mph	X
	Other	-
Riding Characteristics setting	Dynamic	-
	Explorer	-
	Customize	-
Assist pattern Setting	Light off-road	-
	Comfort	X
Maximum assist ratio (%)	BOOST	-
	HIGH	230
	TRAIL	-
	NORMAL	150
ECO		70
Power supply for front light		**** DC 6V
Power supply for rear light		**** DC 6V
Maximum current supply front and rear light total (A)		1
Safe way home function		X
Communication		E-TUBE
Master unit		X
Firmware update by E-TUBE PROJECT		X
E-TUBE port (pcs)		2
E-TUBE connector (pcs)		0
Port for Light (pcs)		2
Terminal for Light (pcs)		0
Port for Speed Sensor (pcs)		1
Chain case compatible		X
Chain Device compatible		-
Torque sensor		X
Crank arm position sensor		X
Bike speed sensor		X
Cadence sensor		X
Walk assist function	On/Off	-
	Standard	X
	Intelligent	-
	Quick	-
Automatic shift	IHG 11s	-
	IHG 8s	X
	RD	-
SYMPHOMATIC	IHG	X
	RD	-
Compatible BB type		Square type
DU fixing bolt (pcs)		-
Note		* Set by E-TUBE PROJECT **** By using SM-DUE01 Speed Limit: 20 mph

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

Drive Unit Cover

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

Speed Sensor Unit

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
Model no.		RT-EM900	RT-EM800
CENTER LOCK		X	X
6-bolt (P.C.D. 44 mm)		-	-
ICE TECHNOLOGIES		X	X
ICE TECHNOLOGIES FREEZA		X	-
Outside diameter	203 mm	-	-
	180 mm	X*	X*
	160 mm	X*	X*
	140 mm	-	-
Alloy lock ring		X	X
Adapter	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Rotor	Material	Stainless steel + Aluminum + Stainless steel	Stainless steel + Aluminum + Stainless steel
	Finish	Polished	Polished
Pad compatibility	Metal	X	X
	Resin	X	X
Average weight (w/o lock ring)		142 g (180mm) 127 g (160mm)	150 g (180mm) 129 g (160mm)
Note		* For rear only with magnet bracket	* For rear only with magnet bracket

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	DEORE XT
Model no.		FC-E8050	FC-E8000	FC-E6010	FC-E6000	FC-M8050
Color	1	Standard	Standard	Black	Gray	Series Color
	2	-	-	Gray	Black	-
	3	-	-	-	-	-
Crank arm type	Hollow Tech	X	-	-	-	X
	Solid	-	X	X	X	-
Q factor (mm)		177	177	213	189.6	177
Chain case compatible		-	-	X	X	-
Crank arm length (mm)	175	X	X	X	X	X
	170	X	X	X	X	X
	165	-	-	-	-	X
	Others	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted	Anodized
BB Type		24 mm Axle Serration	24 mm Axle Serration	Square type	Square type	24 mm Axle Serration
Note		-	-	-	-	-

Chainring

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		SM-CRE80-B	SM-CRE80	SM-CRE60
Color	1	Standard	Standard	Black / Silver
	2	-	-	Black / Gray
	3	-	-	Black / Gray (double, single chain guard type only)
Gear speed		1	1	1
Rear speed	11-speed	*X	*X	X
	10-speed	*X	*X	X
	9-speed	-	-	X
	Single	-	-	X
DYNAMIC CHAIN ENGAGEMENT Plus		X	X	-
Chainring teeth	44T	-	X	X
	38T	X	X	X
	34T	X	X	-
	Others	-	-	-
Chain guard type	Double	-	X	X
	Single	-	-	X
	W/O CG	X	X	X
Chainring fixing lock nut		Included in drive unit	Included in drive unit	Included in drive unit
Chainring cover outer diameter (mm)		-	-	95.5 (w/o CG only)
Chain case compatible		-	-	X (single, w/o CG only)
Chainline (mm)	53	X	-	-
	50	-	X	-
	46.5	-	-	X
P.C.D. (mm)		104	104	-
Chain ring	Material	Steel	Steel	Steel
	Finish	Plating	Plating	Painted
Spider arm	Material	Aluminum	Aluminum	-
	Finish	Anodized	Anodized	-
Chainring fixing bolt	Material	Stainless steel	Stainless steel	-
	Finish	SP Black	SP Black	-
Gear arms		4 arm	4 arm	-
Note		* E-BIKE RD system compatible chain	* E-BIKE RD system compatible chain	-

Chain Device

Series		SHIMANO	SHIMANO
Model no.		SM-CDE80	SM-CDE80
Color	1	Standard	Standard
	2	-	-
	3	-	-
Chain Line (mm)	53	X	X*
	50	-	X*
Chain compatibility	11Speed	X	X
	10Speed	X	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	-
Compatible Drive Unit		DU-E8000	DU-E8000
Rear suspension stroke(mm)		0-170	0-170
Back plate	Material	Aluminum	-
	Finish	Anodized	-
Chain guide	Material	Resin	Resin
Note	w/plate		1.w/o plate 2.X* means 53 mm frame or 50 mm frame

ARCHIVE

SC

SW

DU

SMDU

SMDU

RT

SMDU

FC

CRE

CD

BT

BM

EC

EWEX

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-E8010	BT-E8020	BT-E6001	BT-E6000	BT-E6010	BT-E8010
Color	1	Black	Black	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	Rear carrier	Rear carrier	Down tube	Down tube
Rated voltage (V)		36	36	36	36	36	36
Rated capacity (Ah)		14	14	14	11.6	11.6	13
Rated capacity (Wh)		504	504	504	418	418	504
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)		*5	*5	*5	*4	*4	*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-E8020	BM-E6000	BM-E6000	BM-E6000	BM-E8010
Compatible charger		EC-E6000	EC-E6000	EC-E6000	EC-E6000	EC-E6000	EC-E6000-3 (for Japan)
Note		*By EC-E6000	*By EC-E6000	*By EC-E6000	*By EC-E6000	*By EC-E6000	For Japan * By EC-E6000-3

Series		SHIMANO
Model no.		BT-E6010
Color	1	Black
	2	-
	3	-
Chemistry		Li-Ion
Position		Down tube
Rated voltage (V)		36
Rated capacity (Ah)		10.9
Rated capacity (Wh)		418
Cyclelife span for charge (times)		1000 (more than 60%)
Time to charge (hour)		*4
Charge level display		X
Error signal		X
Charging port		-
Tail light / Reflector integration		-
System on/off switch		X
Compatible battery mount		BM-E6000
Compatible charger		EC-E6000-3 (for Japan)
Note		For Japan * By EC-E6000-3

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

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	-	-	-	-	-	-
Typical example country / Region		Europe	USA / Canada	Japan	Australia / New Zealand	UK	Korea
Compatible battery		BT-E6000/BT-E6001/ BT-E6010 BT-E8010/BT-E8020	BT-E6000/BT-E6001/ BT-E6010 BT-E8010/BT-E8020	BT-E6010 (for Japan) BT-E8010 (for Japan)	BT-E6000/BT-E6001/ BT-E6010 BT-E8010/BT-E8020	BT-E6000/BT-E6001/ BT-E6010 BT-E8010/BT-E8020	BT-E6000/BT-E6001/ BT-E6010 BT-E8010/BT-E8020
Compatible battery mount		BM-E6000/BM-E6010	BM-E6000/BM-E6010	BM-E6000/BM-E6010	BM-E6000/BM-E6010	BM-E6000/BM-E6010	BM-E6000/BM-E6010
Compatible voltage		AC100 V-240 V 50-60 Hz	AC100 V-240 V 50-60 Hz	AC100 V 50-60 Hz	AC100 V-240 V 50-60 Hz	AC100 V-240 V 50-60Hz	AC100 V-240 V 50-60 Hz
CE standard		X	X	X	X	X	X
UL standard		X	X	X	X	X	X
Korea 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		X	X	X	X	X	X
Compatible AC power cable		-	-	-	-	-	-
Built in AC cable		X	X	X	X	X	X
Built in AC cable length (m)		1	2	1	1	1	1
Note		* In case of BT-E6000 & BT-E6010 ** In case of BT-E6001, BT-E8010 & BT-E8020	* In case of BT-E6000 & BT-E6010 ** In case of BT-E6001, BT-E8010 & BT-E8020	* In case of BT-E6010 (for Japan) ** In case of BT-E8010 (for Japan)	* In case of BT-E6000 & BT-E6010 ** In case of BT-E6001, BT-E8010 & BT-E8020	* In case of BT-E6000 & BT-E6010 ** In case of BT-E6001, BT-E8010 & BT-E8020	* In case of BT-E6000 & BT-E6010 ** In case of BT-E6001, BT-E8010 & BT-E8020

DI2 Adapter

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

ARCHIVE

SHIMANO