

SHIMANO

2016-2017

SPEC. HANDBOOK

- MTB
- TREKKING
- CITY TOURING/COMFORT
- ROAD
- URBAN SPORT
- GENERAL
- Di2 Spec
- E-BIKE

REMARKS Mark X : available / Mark - : not available

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Word definitions

BB	Bottom bracket	HB	Front hub
BC	Brake cable	HP	Head parts
BCC	Battery cable	HRB	Hub roller brake
BCR	Battery charger	I-spec	Integration mounting system of brake and shift lever
BH	Disc brake hose		
BL	Brake lever	ID	CI-DECK
BM	Battery mount	JC	Junction
BR	Brake caliper	LP	Light
BTC	Battery case	MF	Multiple freewheel
BTH	Battery holder	MU	Motor unit
BTR	Battery	O.L.D.	Over locknut dimension
CB	Coaster brake	OT	Outer Cable
CD	Chain Device	P.C.D.	Pich circle diameter
CG	Chain guard	PCE	PC Linkage Device
CJ	Cassette joint	PD	Pedal
CN	Chain	PM	Power modulator
CP	Spoke protector	QR	Quick release
CR	Chainring	RD	Rear derailleur
CS	Cassette sprocket	RT	Disc brake rotor
CT	Chain tensioner	RTAD	Disc brake rotor adapter
DH	Hub dynamo	SB	Revo shifter integrated with brake lever
DU	Drive unit	SC	Cycle computer
EC	Battery charger	SF	Single free
EW	Electric wire	SG	Internal geared hub
EWC	Cord cover	SL	Shift lever
EWEX	Di2 adapter	SPD	Shimano pedaling dynamics
EWV	Wireless unit	SPD-SL	Shimano pedaling dynamics-SL
FC	Crankset	ST	Dual control lever / Shift lever integrated with brake lever
FD	Front derailleur		
FH	Freehub	SW	Switch
GM	Grommet	WH	Wheel

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Cassette Sprocket	75	CS
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Freehub	80	FH
Freehub (Roller Brake)	85	FH
Front Hub	86	HB
Front Hub (Roller Brake)	90	HB
Wheel	91	WH
CI-DECK	99	CI-DECK

Shift Lever

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		SL-M9000-L	SL-M9000-R	SL-M9000-IL	SL-M9000-IR	SL-M980-A-L	SL-M980-B-IL
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus
Front speeds		2/3	-	2/3	-	2/3	2/3
Rear speeds		-	11	-	11	-	-
Compatible RD Type		-	MTB 11-speed RD	-	MTB 11-speed RD	-	-
I-spec B-type compatible		-	-	-	-	-	X
I-spec II compatible		-	-	X	X	-	-
SL position adjust		-	-	X	X	-	X
SL rotation adjust		-	-	X	X	-	-
SL cable adjust		X	X	X	X	X (CFRP)	X (CFRP)
2/3 mode converter		-	-	-	-	X	X
Max. multiple shifts (Main lever/ rear)		-	4	-	4	-	-
Release function	Multi release	-	X**	-	X**	-	-
	Instant release	X	X	X	X	X	X
	2-Way 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
SL bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Clamp bolt	Material	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
SL 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 SL outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (pc)		200g/pair	200g/pair	205g/pair	205g/pair	104g	98g
Note			**pull:single, push:double		**pull:single, push:double		

Shift Lever

Series		XTR	XTR	SAINT	SAINT	DEORE XT	DEORE XT
Model no.		SL-M980-A-R	SL-M980-B-IR	SL-M820	SL-M820-B-I	SL-M8000-L	SL-M8000-R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus
Front speeds		-	-	-	-	2/3	-
Rear speeds		10	10	10	10	-	11
Compatible RD Type		MTB 10-speed RD	MTB 10-speed RD	MTB 10-speed RD	MTB 10-speed RD	-	MTB 11-speed RD
I-spec B-type compatible		-	X	-	X**	-	-
I-spec II compatible		-	-	-	-	-	-
SL position adjust		-	X	-	X	-	-
SL rotation adjust		-	-	-	-	-	-
SL cable adjust		X (CFRP)	X (CFRP)	X (CFRP)	X (CFRP)	X	X
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		4	4	4	4	-	4
Release function	Multi release	X	X	X*	X*	-	X*
	Instant release	X	X	X	X	X	X
	2-Way 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
SL bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	-	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
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	SIL-TEC	SIL-TEC	-	-	OPTISLICK	OPTISLICK
Recommended SL outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (pc)		99g	103g	123g	114g	117g	127g
Note				*pull:single, push:double	*pull:single, push:double **I-spec B-type		*pull:single, push:double

SL

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

FC

CR

CD

BB

BB

CS

MF

FH

FH

HB

HB

WH

CI-DECK

Shift Lever

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		SL-M8000-IL	SL-M8000-IR	SL-M8000-B-IL	SL-M8000-B-IR	SL-M780-B-IL	SL-M780-B-IR
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus
Front speeds		2/3	-	2/3	-	2/3	-
Rear speeds		-	11	-	11	-	10
Compatible RD Type		-	MTB 11-speed RD	-	MTB 11-speed RD	-	MTB 10-speed RD
I-spec B-type compatible		-	-	X	X	X	X
I-spec II compatible		X	X	-	-	-	-
SL position adjust		X	X	X	X	X	X
SL rotation adjust		X	X	-	-	-	-
SL 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
	2-Way 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
SL 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
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	-	-
Recommended SL outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (pc)		110g	120g	107g	117g	106g	114g
Note			*pull:single, push:double		*pull:single, push:double		

Shift Lever

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX	SLX
Model no.		SL-M780-L	SL-M780-R	SL-M770-A-L	SL-M770-A-R	SL-M7000-L	SL-M7000-11-R
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 RD Type		-	MTB 10-speed RD	-	MTB 9-speed RD	-	MTB 11-speed
I-spec B-type compatible		-	-	-	-	-	-
I-spec II compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL rotation adjust		-	-	-	-	-	-
SL 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	-	-
	2-Way 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	-	-
SL 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	-	-
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	OPTISLICK	OPTISLICK
Recommended SL outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (pc)		121g	128g	255g/pair	255g/pair	130g	135g
Note							

SL

SMSL

BL

BL

ST

ST

RD

FD

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BR

FC

CR

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BB

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FH

HB

HB

WH

CI-DECK

Shift Lever

Series		SLX	SLX	SLX	SLX	SLX	SLX
Model no.		SL-M7000-IL	SL-M7000-11-IR	SL-M7000-B-IL	SL-M7000-11-B-IR	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 RD Type		-	MTB 11-speed	-	MTB 11-speed	MTB 10-speed	MTB 10-speed
I-spec B-type compatible		-	-	X	X	-	-
I-spec II compatible		X	X	-	-	-	X
SL position adjust		X	X	X	X	-	X
SL rotation adjust		-	-	-	-	-	-
SL 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	-	-	-	-	-	-
	2-Way release	X	X	X	X	X	X
Optical Gear Display	with	-	-	-	-	-	-
	with (removable)	-	-	-	-	X	-
	without	X	X	X	X	X	X
Multi-Bearing construction		-	-	-	-	-	-
SL 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	-	-	-	-	-	-
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
Recommended SL outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (pc)		115g	120g	120g	127g	135g	120g
Note							

Shift Lever

Series		SLX	SLX	SLX	SLX	SLX	ZEE
Model no.		SL-M7000-10-B-IR	SL-M670-B-IL	SL-M670-B-IR	SL-M670-L	SL-M670-R	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 RD Type		MTB 10-speed	-	MTB 10-speed RD	-	MTB 10-speed RD	MTB 10-speed RD
I-spec B-type compatible		X	X	X	-	-	-
I-spec II compatible		-	-	-	-	-	-
SL position adjust		X	X	X	-	-	-
SL rotation adjust		-	-	-	-	-	-
SL 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	-	-	-	-	-	-
	2-Way 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		-	-	-	-	-	-
SL 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	-	-	-	-	-	-
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	-	-	-	-	-
Recommended SL outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (pc)		127g	116g	121g	265g/pair	265g/pair	127g
Note							

SL

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

FC

CR

CD

BB

BB

CS

MF

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FH

HB

HB

WH

CI-DECK

Shift Lever

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.		SL-M610-L	SL-M610-R	SL-M610-IL	SL-M610-IR	SL-M590-L	SL-M590-R
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	-	3	-
Rear speeds		-	10	-	10	-	9
Compatible RD Type		-	MTB 10-speed RD	-	MTB 10-speed RD	-	MTB 9-speed RD
I-spec B-type compatible		-	-	X	X	-	-
I-spec II compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL rotation adjust		-	-	-	-	-	-
SL cable adjust		X	X	X	X	X	X
2/3 mode converter		X	-	X	-	-	-
Max. multiple shifts (Main lever/ rear)		-	3	-	3	-	3
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	X	X	X	X	X	X
Optical Gear Display	with	X	X	-	-	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	X	X	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL 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	-	-	-	-	-	-
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Recommended SL outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (pc)		-	-	-	-	-	-
Note							

Shift Lever

Series		ALIVIO	ALIVIO	ACERA	ACERA	ACERA	ACERA
Model no.		SL-M4000-L	SL-M4000-R	SL-M3000-L	SL-M3000-R	SL-M360-L	SL-M360-R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus
Front speeds		3	-	3	-	3	-
Rear speeds		-	9	-	9	-	8
Compatible RD Type		-	MTB 9-speed RD	-	MTB 9-speed RD	-	MTB 8-speed RD
I-spec B-type compatible		-	-	-	-	-	-
I-spec II compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL rotation 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	-	-	-	-	-	-
	2-Way release	X	X	-	-	-	-
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL 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	Resin & Steel	Steel & Resin	Steel & Resin	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
SL cable	Material	Stainless steel	Stainless steel	Steel*	Steel*	Steel	Steel
	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended SL 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		

SL

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

FC

CR

CD

BB

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WH

CI-DECK

Shift Lever

Series		ALTUS	ALTUS	SHIMANO	SHIMANO	SHIMANO	TOURNEY
Model no.		SL-M370-L	SL-M370-R	SL-M310-L	SL-M310-8R	SL-M310-7R	SL-RS47-L
Color	1	Black	Black	Series color	Series color	Series color	Series color
	2	Silver	Silver	-	-	-	-
Shifter type		RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	REVOSHIFT
Front speeds		3	-	3	-	-	3
Rear speeds		-	9	-	8	7	-
Compatible RD Type		-	MTB 9-speed RD	-	MTB 8-speed RD	MTB 7-speed RD	-
I-spec B-type compatible		-	-	-	-	-	-
I-spec II compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL rotation 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	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL 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	-	-	-	-	-	-
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	-	-	-	-	-	-
SL cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended SL 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

Shift Lever

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-RS47-8R	SL-RS47-7R	SL-RS45-L	SL-RS45-8R	SL-RS45-7R	SL-RS45-6R
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	-	-	-
Rear speeds		8	7	-	8	7	6
Compatible RD Type		MTB 8-speed RD	MTB 7-speed RD	-	MTB 8-speed RD	MTB 7-speed RD	MTB 6-speed RD
I-spec B-type compatible		-	-	-	-	-	-
I-spec II compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL rotation adjust		-	-	-	-	-	-
SL cable adjust		X	X	X	X	X	X
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		7	6	-	7	6	5
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL 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	-	-	-	-	-	-
SL cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended SL 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

SL

SMSL

BL

BL

ST

ST

RD

FD

BR

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FC

CR

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BB

BB

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WH

CI-DECK

Shift Lever

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-RS36-L	SL-RS36-7R	SL-RS36-6R	SL-RS35-L	SL-RS35-LN	SL-RS35-7R
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	3 (Friction)	-
Rear speeds		-	7	6	-	-	7
Compatible RD Type		-	MTB 7-speed RD	MTB 6-speed RD	-	-	MTB 7-speed RD
I-spec B-type compatible		-	-	-	-	-	-
I-spec II compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL rotation adjust		-	-	-	-	-	-
SL cable adjust		X	-	-	X	X	-
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		-	6	5	-	-	6
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL 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	-	-	-	-	-	-
SL cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended SL 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

Shift Lever

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-RS35-6R	SL-RS34-6R	SM-RS34-L	SM-RS34-R	SL-FT55-7R	SL-TX50-L
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
Front speeds		-	-	-	-	-	3
Rear speeds		6	6	-	-	7	-
Compatible RD Type		MTB 6-speed RD	MTB 6-speed RD	-	-	MTB 7-speed RD	-
I-spec B-type compatible		-	-	-	-	-	-
I-spec II compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL rotation adjust		-	-	-	-	-	-
SL cable adjust		-	-	-	-	-	X
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		5	5	-	-	6	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
Optical Gear Display	with	X	X	-	-	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL 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
	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	-	Resin	Resin
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
SL cable	Material	Steel	Steel	-	-	Steel	Steel
	Finish	Standard	Standard	-	-	Standard	Standard
Recommended SL outer casing		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 200mm (both Black /gray color spec available) / for Japanese market only, with CI-DECK spec available	with LED position light, Electric wire length 160mm (both Black /gray color spec available) / for Japanese market only	with LED position light, Electric wire length 200mm (both Black /gray color spec available) / for Japanese market only		

SL

SMSL

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RD

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CI-DECK

Shift Lever

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-TX50-LN	SL-TX50-7R	SL-TX50-6R	SL-TX30-LN	SL-TX30-7R	SL-TX30-6R
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 Plus
Front speeds		3 (Friction)	-	-	3 (Friction)	-	-
Rear speeds		-	7	6	-	7	6
Compatible RD Type		-	MTB 7-speed RD	MTB 6-speed RD	-	MTB 7-speed RD	MTB 6-speed RD
I-spec B-type compatible		-	-	-	-	-	-
I-spec II compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL rotation adjust		-	-	-	-	-	-
SL cable adjust		X	-	-	X	-	-
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		-	6	5	-	6	5
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL 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	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
SL cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended SL outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weight (pc)		-	-	-	-	-	-
Note							

Shift Lever

Series		TOURNEY	TOURNEY	TOURNEY
Model no.		SL-TZ20-LN	SL-TZ20-7R	SL-TZ20-6R
Color	1	Series color	Series color	Series color
	2	-	-	-
Shifter type		Thumb Shifter	Thumb Shifter	Thumb Shifter
Front speeds		3 (Friction)	-	-
Rear speeds		-	7	6
Compatible RD Type		-	MTB 7-speed RD	MTB 6-speed RD
I-spec B-type compatible		-	-	-
I-spec II compatible		-	-	-
SL position adjust		-	-	-
SL rotation adjust		-	-	-
SL cable adjust		-	-	-
2/3 mode converter		-	-	-
Max. multiple shifts (Main lever/ rear)		-	6	5
Release function	Multi release	-	-	-
	Instant release	-	-	-
	2-Way release	-	-	-
Optical Gear Display	with	X	X	X
	with (removable)	-	-	-
	without	-	-	-
Multi-Bearing construction		-	-	-
SL bracket	Material	Steel	Steel	Steel
	Finish	Painted	Painted	Painted
Clamp bolt	Material	Steel	Steel	Steel
	Finish	-	-	-
Main lever body	Material	Resin	Resin	Resin
	Finish	-	-	-
Release lever body	Material	-	-	-
	Finish	-	-	-
Base cover	Material	Resin	Resin	Resin
	Finish	-	-	-
SL cable	Material	Steel	Steel	Steel
	Finish	Standard	Standard	Standard
Recommended SL outer casing		OT-SIS40	OT-SIS40	OT-SIS40
Average weight (pc)		-	-	-
Note				

SL

SMSL

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RD

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CI-DECK

Shift Lever (Integration Unit)

Series	XTR	XTR	SAINT	DEORE XT	DEORE XT
Model no.	SM-SL98-B-L	SM-SL98-B-R	SM-SL82-B	SM-SL78-B-L	SM-SL78-B-R
Base cover material	CFRP	CFRP	GFRP	GFRP	GFRP
SL bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted
I-spec compatible	X*	X*	X*	X*	X*
Compatible SL	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

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
	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
	2	-	-	White	-	White
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
Reach adjust	Toolless	-	X	X	X	-
	Tool	X	-	-	-	X
Free stroke adjust	-	X	X	X	-	-
Servo wave mechanism	-	X	X	X	X	X
Clamp band	Open clamp	X	X	X	X	X
	I-spec	X*	X*	X*	X*	X*
Clamp bolt	Material	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Anodized	Painted	-	-
Brake lever	Material	CFRP	Aluminum+CFRP	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Anodized
Master cylinder	Material	Magnesium	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Average weight (kit for front 800mm, w/160mm recommend RT, w/lock ring, w/o adapter, w/2bolts, w/ Resin pad)	316g	360g	103.2g**	402.5g	418.8g	116.7g**
Note	*I-spec II	*I-spec II	*I-spec B-type **single item weight	*I-spec II	*I-spec II	*I-spec B-type **single item weight

Brake Lever (Hydraulic disc brake)

Series	DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	BL-M615	BL-M506	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	Black	Black	Black	Black	Black
	2	-	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
	2	White	-	-	-	-
Recommended brake caliper	BR-M615	BR-M447	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
Reach adjust	Toolless	-	-	-	-	-
	Tool	X	X	X	X	X
Free stroke adjust	-	-	-	-	-	-
Servo wave mechanism	X	X	-	-	-	-
Clamp band	Open clamp	X	X	-	-	-
	I-spec	X*	X*	-	-	-
Clamp bolt	Material	Stainless steel	Stainless steel	Steel	Steel	Steel
	Finish	-	-	Plated	Plated	Plated
Brake lever	Material	Aluminum	Aluminum	Aluminum	Steel	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Anodized
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Average weight (kit for front 800mm, w/160mm recommend RT, w/lock ring, w/o adapter, w/2bolts, w/ Resin pad)	-	-	-	-	-	-
Note	*I-spec B-type	*I-spec B-type				

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)	-
	CANTI brake	-
	Roller brake	-
Recommended power modulator	V-BRAKE	-
	Mechanical disc brake (MTB)	-
Clamp band	Open clamp band	-
	I-spec compatible	-
	Diameter (mm)	-
Internal bumper stop	-	
Lever size (Finger)	2	
Brake cable type	T-type	
Power adjuster	-	
Servo-Wave action	-	
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)	175g	
Note	For BMX	

Shift/Brake Lever (Hydraulic disc brake)

Series		ALIVIO	ALIVIO	ACERA	ACERA	
Model no.		ST-M4050-L	ST-M4050-R	ST-M3050-L	ST-M3050-R	
Color	1	Series color	Series color	Series color	Series color	
	2	-	-	-	-	
Shifter type		Rapid Fire Plus	Rapid Fire Plus	Rapid Fire Plus	Rapid Fire Plus	
Shift lever	Front speeds		3	-	3	-
	Rear speeds		-	9	-	9
	2/3 mode converter		-	-	-	-
	Max. multiple shifts (Main lever / rear)		-	3	-	3
	Compatible RD type		-	MTB 9-speed RD	-	MTB 9-speed RD
	I-spec compatible		-	-	-	-
	SL position adjust		-	-	-	-
	Release function	Multi release	-	-	-	-
		Instant release	-	-	-	-
		2-Way release	X	X	-	-
	SL cable adjust		X	X	X	X
	Optical Gear Display	With	X	X	X	X
		With (removable)	-	-	-	-
		Without	-	-	-	-
	Multi-Bearing construction		-	-	-	-
	SL outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40
SL cable	Material	Stainless steel	Stainless steel	Steel*	Steel*	
	Finish	Standard	Standard	Standard	Standard	
Brake lever	Lever size (Finger)		2	2	2	2
	Brake hose (Kit)		SM-BH59	SM-BH59	SM-BH59-JK-SS	SM-BH59-JK-SS
	Hose joint		Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black
		2	-	-	-	-
	Recommended brake caliper		BR-M4050	BR-M4050	BR-M3050	BR-M3050
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust	Toolless	-	-	-	-
		Tool	X	X	X	X
	Funnel bleeding		X	X	X	X
	Free stroke adjust		-	-	-	-
	Servo wave mechanism		-	-	-	-
Material		Aluminum	Aluminum	Aluminum	Aluminum	
Finish		Anodized	Anodized	Anodized	Anodized	
Clamp band	Open clamp	-	-	-	-	
Shifter Lever body	Main	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	
	Release	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
		Finish	Painted	Painted	Painted	Painted
	Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
		Finish	X	X	-	-
Stainless clamp bolt		X	X	X	X	
Average weight		-	-	-	-	
Note				*Stainless steel option available	*Stainless steel option available	

Shift/Brake Lever

Series		ALIVIO	ALIVIO	ALTUS	ALTUS	SHIMANO	SHIMANO	
Model no.		ST-M4000-L	ST-M4000-R	ST-M370-L	ST-M370-R	ST-M310-L2	ST-M310-L4	
Color	1	Series color	Series color	Black	Black	Black	Black	
	2	-	-	Silver	Silver	Silver	Silver	
Shift lever	Shifter type		RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	
	Front speeds		3	-	3	-	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	X	X
	2/3 mode converter		-	-	-	-	-	-
	Max. multiple shifts (Main lever / rear)		-	3	-	3	-	-
	Release function	Multi release	-	-	-	-	-	-
		Instant release	-	-	-	-	-	-
		2-Way release	X	X	-	-	-	-
	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	-	-	-	-	-	-
	SL cable	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
Finish		Standard	Standard	Standard	Standard	Standard	Standard	
Recommended SL outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	
Brake lever	Compatible brake type	V-BRAKE	X	X	X	X	X	X with switch
		Mechanical disc brake (MTB)	X	X	X	X	X	X with switch
		Mechanical disc brake (Road)	-	-	-	-	-	-
		Caliper (SLR EV)	-	-	-	-	-	-
		Caliper (new super SLR)	-	-	-	-	-	-
		Caliper (super SLR)	-	-	-	-	-	X with switch
		CANTI 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	-	-	-	-
	Lever size (Finger)		2	2	2	2	2	4
	Brake cable type		T-type	T-type	T-type	T-type	T-type	T-type
	Power adjuster		-	-	-	-	-	-
	Servo-Wave action		-	-	-	-	-	-
	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	Painted	Painted	Anodized	Anodized	
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel	
	Finish	-	-	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	

SL

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CI-DECK

Shift/Brake Lever

Series		SHIMANO	SHIMANO	TOURNEY TX	TOURNEY TX	SHIMANO	SHIMANO
Model no.		ST-M310-8R2	ST-M310-8R4	ST-TX800-L	ST-TX800-8R	ST-EF65-L2	ST-EF65-L4
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
Shift lever	Shifter type		RAPIDFIRE Plus	RAPIDFIRE Plus	EZ FIRE Plus	EZ FIRE Plus	EZ FIRE Plus
	Front speeds		-	-	3	-	3
	Rear speeds		8	8	-	8	-
	Compatible RD Type		MTB 8-speed RD	MTB 8-speed RD	-	MTB 8-speed RD	-
	SL position adjust		-	-	-	-	-
	SL cable adjust		X	X	X	-	X
	2/3 mode converter		-	-	-	-	-
	Max. multiple shifts (Main lever / rear)		3	3	-	3	-
	Release function	Multi release	-	-	-	-	-
		Instant release	-	-	-	-	-
		2-Way release	-	-	-	-	-
	Optical Gear Display	With	X	X	X	X	X
		With (removable)	-	-	-	-	-
		Without	-	-	-	-	-
	Multi-Bearing construction		-	-	-	-	-
	Main lever body	Material	Resin & Steel	Resin & Steel	Resin	Resin	Resin & Steel
		Finish	-	-	-	-	-
	Release lever body	Material	Resin & Steel	Resin & Steel	Resin	Resin	Resin & Steel
		Finish	-	-	-	-	-
	SL cable	Material	Steel	Steel	Steel	Steel	Steel
Finish		Standard	Standard	Standard	Standard	Standard	
Recommended SL outer casing		OT-SP40	OT-SP40	OT-SIS40	OT-SIS40	OT-SP40	
Brake lever	Compatible brake type	V-BRAKE	X	X with switch	X	X	X with switch
		Mechanical disc brake (MTB)	X	X with switch	X	X	X with switch
		Mechanical disc brake (Road)	-	-	-	-	-
		Caliper (SLR EV)	-	-	-	-	-
		Caliper (new super SLR)	-	-	-	-	-
		Caliper (super SLR)	-	X with switch	-	-	X with switch
		CANTI 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
	Lever size (Finger)		2	4	2	2	4
	Brake cable type		T-type	T-type	T-type	T-type	T-type
	Power adjuster		-	-	-	-	-
Servo-Wave action		-	-	-	-	-	
Reach adjust		X	X	X	X	X	
Cable adjust		X	X	X	X	X	
Cable adjust type		Two hand	Two hand	Two hand	Two hand	Two hand	
Brake lever	Material	Aluminum	Aluminum	Steel/Resin	Steel/Resin	Aluminum	
	Finish	Anodized	Anodized	-	-	Anodized	
Bracket	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight		-	-	-	-	-	
Note						*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	

Shift/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		ST-EF65-9R2	ST-EF65-9R4	ST-EF65-8R2	ST-EF65-8R4	ST-EF65-7R2	ST-EF65-7R4
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
Shift lever	Shifter type		EZ FIRE Plus	EZ FIRE Plus	EZ FIRE Plus	EZ FIRE Plus	EZ FIRE Plus
	Front speeds		-	-	-	-	-
	Rear speeds		9	9	8	8	7
	Compatible RD Type		MTB 9-speed RD	MTB 9-speed RD	MTB 8-speed RD	MTB 8-speed RD	MTB 7-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	3
	Release function	Multi release	-	-	-	-	-
		Instant release	-	-	-	-	-
		2-Way release	-	-	-	-	-
	Optical Gear Display	With	X	X	X	X	X
		With (removable)	-	-	-	-	-
		Without	-	-	-	-	-
	Multi-Bearing construction		-	-	-	-	-
	Main lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-
	Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-
	SL cable	Material	Steel	Steel	Steel	Steel	Steel
Finish		Standard	Standard	Standard	Standard	Standard	
Recommended SL outer casing		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 with switch
		Mechanical disc brake (MTB)	X	X with switch	X	X with switch	X with switch
		Mechanical disc brake (Road)	-	-	-	-	-
		Caliper (SLR EV)	-	-	-	-	-
		Caliper (new super SLR)	-	-	-	-	-
		Caliper (super SLR)	-	X with switch	-	X with switch	X with switch
		CANTI 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		X	X	X	X	X
	Lever size (Finger)		2	4	2	4	4
	Brake cable type		T-type	T-type	T-type	T-type	T-type
	Power adjuster		-	-	-	-	-
	Servo-Wave action		-	-	-	-	-
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	
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	
		Finish	Anodized	Anodized	Anodized	Anodized	
Clamp bolt	Clamp bolt	Material	Steel	Steel	Steel	Steel	
		Finish	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	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	

SL

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CI-DECK

Shift/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		ST-EF510-L2A	ST-EF510-L4A	ST-EF510-9R2A	ST-EF510-8R2A	ST-EF510-8R4A	ST-EF510-7R2A
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
Shift lever	Shifter type		EZ FIRE Plus	EZ FIRE Plus	EZ FIRE Plus	EZ FIRE Plus	EZ FIRE Plus
	Front speeds		3	3	-	-	-
	Rear speeds		-	-	9	8	8
	Compatible RD Type		-	-	MTB 9-speed RD	MTB 8-speed RD	MTB 8-speed RD
	SL position adjust		-	-	-	-	-
	SL cable adjust		X	X	-	-	-
	2/3 mode converter		-	-	-	-	-
	Max. multiple shifts (Main lever / rear)		-	-	3	3	3
	Release function	Multi release	-	-	-	-	-
		Instant release	-	-	-	-	-
		2-Way release	-	-	-	-	-
	Optical Gear Display	With	X	X	X	X	X
		With (removable)	-	-	-	-	-
		Without	-	-	-	-	-
	Multi-Bearing construction		-	-	-	-	-
	Main lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-
	Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-
	SL cable	Material	Steel	Steel	Steel	Steel	Steel
Finish		Standard	Standard	Standard	Standard	Standard	
Recommended SL outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	
Brake lever	Compatible brake type	V-BRAKE	X	X with switch*	X	X	X with switch*
		Mechanical disc brake (MTB)	X	X with switch*	X	X	X with switch*
		Mechanical disc brake (Road)	-	-	-	-	-
		Caliper (SLR EV)	-	-	-	-	-
		Caliper (new super SLR)	-	-	-	-	-
		Caliper (super SLR)	-	X with switch	-	-	X with switch
		CANTI 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	4	2	2	4
	Brake cable type		T-type	T-type	T-type	T-type	T-type
	Power adjuster		-	-	-	-	-
	Servo-Wave action		-	-	-	-	-
	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	Painted	Painted	Painted	Painted	Painted	
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Plated	Plated	
Average weight		-	-	-	-	-	
Note			* Power modulator must be used for front brake			* Power modulator must be used for front brake	

Shift/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		ST-EF510-7R4A	ST-EF500-L2A	ST-EF500-L4A	ST-EF500-8R2A	ST-EF500-8R4A	ST-EF500-7R2A
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	-	-	-	-	-
Shift lever	Shifter type		EZ FIRE Plus	EZ FIRE Plus	EZ FIRE Plus	EZ FIRE Plus	EZ FIRE Plus
	Front speeds		-	3	3	-	-
	Rear speeds		7	-	-	8	8
	Compatible RD Type		MTB 7-speed RD	-	-	MTB 8-speed RD	MTB 8-speed RD
	SL position adjust		-	-	-	-	-
	SL cable adjust		-	X	X	-	-
	2/3 mode converter		-	-	-	-	-
	Max. multiple shifts (Main lever / rear)		3	-	-	3	3
	Release function	Multi release	-	-	-	-	-
		Instant release	-	-	-	-	-
		2-Way release	-	-	-	-	-
	Optical Gear Display	With	X	X	X	X	X
		With (removable)	-	-	-	-	-
		Without	-	-	-	-	-
	Multi-Bearing construction		-	-	-	-	-
	Main lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-
	Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-
	SL cable	Material	Steel	Steel	Steel	Steel	Steel
Finish		Standard	Standard	Standard	Standard	Standard	
Recommended SL outer casing		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*
		Mechanical disc brake (MTB)	X with switch*	X	X with switch*	X	X with switch*
		Mechanical disc brake (Road)	-	-	-	-	-
		Caliper (SLR EV)	-	-	-	-	-
		Caliper (new super SLR)	-	-	-	-	-
		Caliper (super SLR)	X with switch	-	X with switch	-	X with switch
		CANTI 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
	Brake cable type		T-type	T-type	T-type	T-type	T-type
	Power adjuster		-	-	-	-	-
	Servo-Wave action		-	-	-	-	-
	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	Painted	Painted	Painted	Painted	Painted	
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	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	

SL

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CI-DECK

Shift/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-EF500-7R4A	ST-EF51-L (2A)	ST-EF51-L (4A)	ST-EF51-9R(2A)	ST-EF51-9R (4A)	ST-EF51-8R (2A)	
Color	1	Black	Black	Black	Black	Black	Black	
	2	-	Silver	Silver	Silver	Silver	Silver	
Shift lever	Shifter type		EZ FIRE Plus	EZ FIRE Plus	EZ FIRE Plus	EZ FIRE Plus	EZ FIRE Plus	
	Front speeds		-	3	3	-	-	-
	Rear speeds		7	-	-	9	9	8
	Compatible RD Type		MTB 7-speed RD	-	-	MTB 9-speed RD	MTB 9-speed RD	MTB 8-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	-	-	-	-	-	-
		2-Way 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	-	-	-	-	-	-
	SL cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
Finish		Standard	Standard	Standard	Standard	Standard	Standard	
Recommended SL 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	-
		CANTI 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		-	-	-	-	-	-
	Servo-Wave action		-	-	-	-	-	-
	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	Anodized (Black version) Barrel (Silver version)	Anodized (Black version) Barrel (Silver version)	Painted (Black version) Barrel (Silver version)	Painted (Black version) Barrel (Silver version)	Anodized (Black version) Barrel (Silver version)	
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
		Finish	Painted	Painted	Painted	Painted	Painted	
	Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Plated	Plated	Plated	Plated	Plated	
Average weight		-	-	-	-	-	-	
Note		* Power modulator must be used for front brake		*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		

Shift/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-EF51-8R (4A)	ST-EF51-7R (2A)	ST-EF51-7R (4A)	ST-EF51-AL(2A)	ST-EF51-AL(4A)	ST-EF51-A9R(2A)	
Color	1	Black	Black	Black	Black	Black	Black	
	2	Silver	Silver	Silver	Silver	Silver	Silver	
Shift 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	7	7	-	-	9
	Compatible RD Type		MTB 8-speed RD	MTB 7-speed RD	MTB 7-speed RD	-	-	MTB 9-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	-	-	-	-	-	-
		2-Way 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	-	-	-	-	-	-
	SL cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
Finish		Standard	Standard	Standard	Standard	Standard	Standard	
Recommended SL 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	-
		CANTI 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		-	-	-	-	-	-
	Servo-Wave action		-	-	-	-	-	-
	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 (Black version) Barrel (Silver version)	Anodized (Black version) Barrel (Silver version)	Anodized (Black version) Barrel (Silver version)	Painted (Black version) Barrel (Silver version)	Painted (Black version) Barrel (Silver version)	Painted (Black version) Barrel (Silver version)	
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
		Finish	Painted	Painted	Painted	Painted	Painted	
	Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	
Finish		Plated	Plated	Plated	Plated	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		*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible		

Shift/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-EF51-A9R (4A)	ST-EF51-A8R(2A)	ST-EF51-A8R (4A)	ST-EF51-A7R(2A)	ST-EF51-A7R (4A)	ST-EF41-L	
Color	1	Black	Black	Black	Black	Black	Black	
	2	Silver	Silver	Silver	Silver	Silver	-	
Shift lever	Shifter type		EZ FIRE Plus	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	-	-	-	-	-	-
		2-Way 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
		Finish	-	-	-	-	-	-
	Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin
		Finish	-	-	-	-	-	-
	SL cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
Finish		Standard	Standard	Standard	Standard	Standard	Standard	
Recommended SL outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SIS40	
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	-
		CANTI 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		-	-	-	-	-	-
	Servo-Wave action		-	-	-	-	-	-
	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	Steel/Resin	
	Finish	Painted (Black version) Barrel (Silver version)	Painted (Black version) Barrel (Silver version)	Painted (Black version) Barrel (Silver version)	Painted (Black version) Barrel (Silver version)	Painted (Black version) Barrel (Silver version)	-	
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	
		Finish	Painted	Painted	Painted	Painted	Painted	
	Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Plated	Plated	Plated	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		*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible		

Shift/Brake Lever

Series		SHIMANO	SHIMANO	
Model no.		ST-EF41-7R	ST-EF41-6R	
Color	1	Black	Black	
	2	-	-	
Shift lever	Shifter type		EZ FIRE Plus	EZ FIRE Plus
	Front speeds		-	-
	Rear speeds		7	6
	Compatible RD Type		MTB 7-speed RD	MTB 6-speed RD
	SL position adjust		-	-
	SL cable adjust		-	-
	2/3 mode converter		-	-
	Max. multiple shifts (Main lever / rear)		3	3
	Release function	Multi release	-	-
		Instant release	-	-
		2-Way release	-	-
	Optical Gear Display	With	X	X
		With (removable)	-	-
		Without	-	-
	Multi-Bearing construction		-	-
	Main lever body	Material	Resin	Resin
		Finish	-	-
	Release lever body	Material	Resin	Resin
		Finish	-	-
	SL cable	Material	Steel	Steel
Finish		Standard	Standard	
Recommended SL outer casing		OT-SIS40	OT-SIS40	
Brake lever	Compatible brake type	V-BRAKE	X	X
		Mechanical disc brake (MTB)	X	X
		Mechanical disc brake (Road)	-	-
		Caliper (SLR EV)	-	-
		Caliper (new super SLR)	-	-
		Caliper (super SLR)	-	-
		CANTI brake	-	-
		Roller brake	-	-
	Recommended power modulator	V-BRAKE	-	-
		Mechanical disc brake (MTB)	-	-
	Clamp band	Open clamp band	-	-
		Internal bumper stop	-	-
	Lever size (Finger)		2	2
	Brake cable type		T-type	T-type
	Power adjuster		-	-
	Servo-Wave action		-	-
	Reach adjust		X	X
	Cable adjust		X	X
Cable adjust type		Two hand	Two hand	
Brake lever	Material	Steel/Resin	Steel/Resin	
	Finish	-	-	
Bracket	Material	Steel	Steel	
	Finish	Painted	Painted	
Clamp bolt	Material	Steel	Steel	
	Finish	Zinc plated	Zinc plated	
Average weight		-	-	
Note				

SL

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

FC

CR

CD

BB

BB

CS

MF

FH

FH

HB

HB

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	
	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	SHADOW RD	-	-	-	-	-	
	SHADOW RD+	X	X	X	X	X	
	Double servo	-	-	-	-	-	
Mount	Direct attachment (Conventional)	X	X	X	X	X	
	Direct mount compatible	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
Fluoroc 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
Bracket	Sunken type pulley bolt	X	X	X	X	X	X
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
B-Axle	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
	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	Anodized	Anodized	Painted	Painted
	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)	224g	221g	211g	213g	280g (w/o mode converter)	275g	
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	Series color
	2	-	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	SHADOW RD	-	X	X	-	X
	SHADOW RD+	X	-	-	X	-
	Double servo	-	-	-	-	-
Mount	Direct attachment (Conventional)	X	X	X	X	X
	Direct mount compatible	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
	Min.	40T	32T	32T	32T	32T
Top sprocket	Max.	11T	11T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T
Fluoric 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
	Teeth	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	X	X	X	X	X
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
B-Axle	Hollow axle	X	X	X	X	X
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
B-Axle 2	Material	-	-	-	-	-
	Finish	-	-	-	-	-
	Hollow axle	X	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel
P-Axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-
Plate body	Material	GFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Cable fixing Bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated
Average weight (pc)	271g	234g	238g	262g	266g	227g
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	
	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	SHADOW RD	X	-	-	-	X	
	SHADOW RD+	-	-	-	X	-	
	Double servo	-	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	-	-	-	-	-	-	
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
Fluoric 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
B-Axle 2	Material	-	-	-	-	-	-
	Hollow axle	-	-	-	X	X	-
	Material	Stainless steel	-	-	Stainless steel	Stainless steel	Stainless steel
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
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)	229g	228g	238g	323g	313g	278g	
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-M610-GS	RD-M610-SGS	RD-M615-GS	RD-M615-SGS
Pulley cage	SGS	SS	GS	SGS	GS	SGS
Color	1	Series color	Series color	Black	Black	Black
	2	-	-	Silver	Silver	Silver
Rear speeds	10	10	10	10	10	10
Compatible chain	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Top-Normal spring type	SHADOW RD	X	-	X	-	-
	SHADOW RD+	-	X	-	-	X
	Double servo	-	-	-	-	-
Mount	Direct attachment (Conventional)	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	22T	Single	18T	22T	18T	22T
Total capacity	43T	25T	35T	43T	35T	43T
Low sprocket	Max.	36T	36T(Freeride spec) 28T(DH spec)	36T	36T	36T
	Min.	32T	23T	32T	32T	32T
Top sprocket	Max.	11T	12T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T
Fluoric coated link bushings	3	3	3	3	3	3
Pulley	G pulley bearing	-	-	-	-	-
	T pulley bearing	-	-	-	-	-
	Teeth	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	X	X	X	X	X
Bracket	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
B-Axle	Hollow axle	X	X	X	X	X
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
B-Axle 2	Material	-	-	-	-	-
	Hollow axle	-	-	X	X	X
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
P-Axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-
Plate body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Aluminum	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	Steel	Steel
	Finish	-	-	Plated	Plated	Plated
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated
Average weight (pc)	281g	275g	299g	308g	330g	339g
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

SL

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

FC

CR

CD

BB

BB

CS

MF

FH

FH

HB

HB

WH

CI-DECK

Rear Derailleur

Series	DEORE	DEORE	ALIVIO	ACERA	ACERA	ALTUS
Model no.	RD-M592-SGS	RD-M591-SGS	RD-M4000	RD-M3000	RD-M360-SGS	RD-M370-SGS
Pulley cage	SGS	SGS	SGS	SGS	SGS	SGS
Color	1	Series color	Silver	Series color	Black	Black
	2	-	Black	-	Silver	Silver
Rear speeds	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
Top-Normal spring type	SHADOW RD	X	-	X	-	-
	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	X	X
Max. front difference	22T	22T	22T	22T	20T	22T
Total capacity	45T	45T	45T	45T	43T	45T
Low sprocket	Max.	36T	34T	36T	36T	34T
	Min.	32T	28T	32T	32T	28T
Top sprocket	Max.	12T	12T	12T	12T	14T
	Min.	11T	11T	11T	11T	11T
Fluoric coated link bushings	3	3	2	1	1	-
Pulley	G pulley bearing	-	-	-	-	-
	T pulley bearing	-	-	-	-	-
	Teeth	11T	11T	11T	11T	13/13T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
	Sunken type pulley bolt	X	X	X	X	-
Bracket	Material	Steel	-	Steel	Steel	-
	Finish	Painted	-	Painted	Painted	-
B-Axle	Hollow axle	X	-	X	X	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-
B-Axle 2	Hollow axle	-	-	X	-	-
	Material	Stainless steel	-	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	Zinc plated
Plate body	Material	Aluminum	Aluminum	Resin	Resin	Resin
	Finish	Painted	Painted	Painted	Painted	(Black) Painted (Silver)
Outer link	Material	Aluminum	Aluminum	CFRP	PA+GF	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	Zinc plated
Cable fixing Bolt	Material	Steel	Steel	Stainless steel	Stainless steel	Steel
	Finish	Plated	Plated	-	-	Zinc plated
Stroke Adjusting Screw	Material	Steel	Steel	Stainless steel	Steel	Steel
	Finish	Plated	Plated	-	Zinc plated	Zinc plated
Average weight (pc)	-	-	-	-	-	-
Note			* w/o bracket spec available	* w/o bracket spec available		

Rear Derailleur

Series	ALTUS	TOURNEY TX	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.	RD-M310-Smart	RD-TX800	RD-TY500-SGS	RD-TY300-SGS	RD-TX55-SGS	RD-TX35-SGS
Pulley cage	Smart	SGS	SGS	SGS	SGS	SGS
Color	1	Black	Black	Series color	Series color	Series color
	2	Silver	Silver	-	-	-
Rear speeds	8/7	8/7	7/6	7/6	7/6	7/6
Compatible chain	HG 8/7-speed	HG 8/7-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed
Top-Normal spring type	SHADOW RD	-	-	-	-	-
	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	X
	Riveted adapter (BMX-Track type)	-	-	X	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	43T
Low sprocket	Max.	34T	34T	34T	34T	34T
	Min.	28T	28T	28T	28T	28T
Top sprocket	Max.	14T	14T	14T	14T	14T
	Min.	11T	11T	11T	11T	11T
Fluoroc coated link bushings	-	-	-	-	-	-
Pulley	G pulley bearing	-	-	-	-	-
	T pulley bearing	-	-	-	-	-
	Teeth	13/15T	13/13T	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	Steel	Steel	Steel
	Finish	-	-	Zinc plated	Zinc plated	Zinc plated
B-Axle 2	Hollow axle	-	-	-	-	-
	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Bracket body	Material	Aluminum	Resin	Resin	Resin	Resin
	Finish	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	-	-	-	-	-
Outer link	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Resin	Steel	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	Painted	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
- FC
- CR
- CD
- BB
- BB
- CS
- MF
- FH
- FH
- HB
- HB
- WH
- CI-DECK

Rear Derailleur

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		RD-FT55-SS	RD-FT35-SS	RD-TZ50-GS	RD-TY21-A-SS	RD-TY21-A-SS	RD-TY21-A-GS
Pulley cage		SS	SS	GS	SS	SS	GS
Color	1	Series color	Series color	Black	Silver	Black	Silver
	2	-	-	-	-	-	-
Rear speeds		7/6	7/6	6	6	6	6
Compatible chain		HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 6-speed	HG-UG 6-speed	HG-UG 6-speed	HG-UG 6-speed
Top-Normal spring type	SHADOW RD	-	-	-	-	-	-
	SHADOW RD+	-	-	-	-	-	-
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (Conventional)	X	X	X	X	X	X
	Direct mount compatible	-	-	-	-	-	-
	Riveted adapter (Road type)	X	X	X	X	X	X
	Riveted adapter (BMX-Track type)	X	X	X	X	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		X	X	X	X	X	X
Max. front difference		Single	Single	20T	13T	13T	20T
Total capacity		17T	17T	34T	28T	28T	34T
Low sprocket	Max.	28T	28T	28T	28T	28T	28T
	Min.	28T	28T	28T	28T	28T	28T
Top sprocket	Max.	14T	14T	14T	14T	14T	14T
	Min.	11T	11T	14T	14T	14T	14T
Fluoric coated link bushings		-	-	-	-	-	-
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	11/11T	11/11T	11/11T	11/11T	11/11T	11/11T
	Bolts material	Steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley bolt	-	-	-	-	-	-
Bracket	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
B-Axle	Hollow axle	-	-	-	-	-	-
	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Black	Black	Black	Black
B-Axle 2	Hollow axle	-	-	-	-	-	-
	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Bracket body	Material	Resin	Resin	Steel	Resin	Resin	Resin
	Finish	-	-	Painted	-	-	-
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Plate body	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome Plating + Name Plate	Painted	Painted	Zinc plated	Painted	Zinc plated
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Painted	Zinc plated	Zinc plated	Zinc plated
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome Plating	Painted	Painted	Zinc plated	Painted	Zinc plated
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Zinc plated	Painted	Zinc plated
Cable fixing Bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (pc)		-	-	-	-	-	-
Note		Allen key fixing					

Rear Derailleur

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

SL

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

FC

CR

CD

BB

BB

CS

MF

FH

FH

HB

HB

WH

CI-DECK

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)		130.0g	112.0g	117.0g	102g	129g	111g	
Note								

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	-	-	-	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)		116g	102g	147.2g	132.9g	141.3g	124g	
Note		*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.	*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.			*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.	*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.	

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)		151g	135g	136g	121g	145g	129g	
Note								

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)		134g	120g	149g	131g	139g	124g	
Note		*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.	*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.			*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.	*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.	

Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		FD-M780-A-B	FD-M781-A-B	FD-M781-A-D	FD-M785	FD-M785-E2	FD-M786	
Color	1	Black	Black	Black	Black	Black	Black	
	2	-	Silver	Silver	-	-	Silver	
Speeds	Front	3	3	3	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	X	-	
	Down Swing	-	X	X	-	-	X	
	Side Swing	-	-	-	-	-	-	
Mount	Clamp Band	28.6mm	X (w/ S size adapter)	X (w/ S size adapter)	-	X (w/ S size adapter)	-	X (w/ S size adapter)
		31.8mm	X (w/ M size adapter)	X (w/ M size adapter)	-	X (w/ M size adapter)	-	X (w/ M size adapter)
		34.9mm	X	X	-	X	-	X
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	-	-	X	-
	Direct Mount	-	-	X	-	-	-	-
Cable route type	Dual-Pull	X	X	X	X	X	X	
	Top-Pull exclusive	-	X	X	-	-	X	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	-	-	-	
Chain line (mm)		50	50	50	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	40-42T	38-44T	38-44T	38-44T	
Total capacity		18T	18T	18T	14T	14T	14T	
Applicable Top-Mid tooth difference		10T	10T	10T	-	-	-	
Multi access cable fixing bolt		X	-	-	X	X	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	X	-	X	-	X	
Link bushings		2	8	8	2	2	8	
Front clamp band	Material	Aluminum	Aluminum	-	Aluminum	-	Aluminum	
	Finish	Painted	Painted	-	Painted	-	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	Stainless steel	-	Stainless steel	-	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Aluminum	Aluminum	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)		152g	151g (Dual pull) 147g (Top pull)	143g (Dual pull) 139g (Top pull)	136g	127g	155g	
Note					*Outer cable stopper integrated design.			

Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		FD-M786-D	FD-M770	FD-M770-E	FD-M771	FD-M771-D	FD-M772A	
Color	1	Black	Series color	Series color	Series color	Series color	Series color	
	2	Silver	-	-	-	-	-	
Speeds	Front	2	3	3	3	3	3	
	Rear	10	9	9	9	9	9	
Compatible chain		HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	
Action	Top Swing	-	X	X	-	-	X	
	Down Swing	X	-	-	X	X	-	
	Side Swing	-	-	-	-	-	-	
Mount	Clamp Band	28.6mm	-	X (w/ S size adapter)	-	X (w/ S size adapter)	-	X (w/ S size adapter)
		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	-	-	-
	Direct Mount	X	-	-	-	X	-	
Cable route type	Dual-Pull	X	X	X	X	X	X (w/AdapterM)	
	Top-Pull exclusive	X	-	-	-	-	X	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	-	-	-	
Chain line (mm)		48.8	50	50	50	50	50	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	63-66	
Top gear teeth		38-44T	44/48T	44T	44T	44T	44/48T	
Total capacity		14T	22T	22T	22T	22T	22T	
Applicable Top-Mid tooth difference		-	12T	12T	12T	12T	12T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	-	
Angled clamp band design		-	X	-	X	-	X	
Link bushings		8	2	2	8	8	2	
Front clamp band	Material	-	Aluminum	-	Aluminum	-	Aluminum	
	Finish	-	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	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	Aluminum	-	-	-	
	Finish	-	-	Painted	-	-	-	
Outer link	Material	Aluminum	Steel	Steel	Aluminum	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	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)		146g	152g	166g	155g	147g	160g	
Note			*Outer cable stopper integrated design.					

Front Derailleur

Series		DEORE XT	SLX	SLX	SLX	SLX	SLX
Model no.		FD-M773	FD-M7000-10-H	FD-M7000-10-L	FD-M7000-10-D	FD-M7000-10-E	FD-M7005-10-H
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	10	10	10	10	10
Compatible chain		HG 9-speed	HG-X	HG-X	HG-X	HG-X	HG-X
Action	Top Swing	-	-	-	-	-	-
	Down Swing	X	-	-	-	-	X
	Side Swing	-	X	X	X	X	-
Mount	Clamp Band	28.6mm	X (w/ S size adapter)	-*	-*	-	-*
		31.8mm	X (w/ M size adapter)	X (w/ M size adaptor)	X (w/ M size adaptor)	-	X (w/ M size adaptor)
		34.9mm	X	X	X	-	X
	E-type	With BB Plate	-	-	-	-	-
		Without BB Plate	-	-	-	X	-
	Direct Mount	-	-	-	X	-	-
Cable route type	Dual-Pull	X (w/AdapterM)	-	-	-	-	X
	Top-Pull exclusive	X	-	-	-	-	-
	Down-Pull exclusive	-	-	-	-	-	-
	Front-Pull	-	X	X	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		44/48T	42T	42T	42T	42T	42-40T
Total capacity		22T	18T	18T	18T	18T	18T
Applicable Top-Mid tooth difference		12T	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
Link bushings		7	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	Chrome 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	Steel	Steel	Steel	Steel	Stainless steel
	Finish	-	Black	Black	Black	Black	-
Average weight (pc) (Band type: L size, direct type w/ bolt)		174g	152.1g	136.5g	140.5g	126.5g	155.4g
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.

Front Derailleur

Series		SLX	SLX	SLX	SLX	SLX	SLX	
Model no.		FD-M7005-10-L	FD-M7005-10-D	FD-M7005-10-E	FD-M7020-11-H	FD-M7020-11-L	FD-M7020-11-D	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	2	2	2	
	Rear	10	10	10	11	11	11	
Compatible chain		HG-X	HG-X	HG-X	HG-X11	HG-X11	HG-X11	
Action	Top Swing	X	-	X	-	-	-	
	Down Swing	-	X	-	-	-	-	
	Side Swing	-	-	-	X	X	X	
Mount	Clamp Band	28.6mm	-*	-	-	-*	-	
		31.8mm	X (w/ M size adaptor)	-	-	X (w/ M size adaptor)	X (w/ M size adaptor)	
		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	-	-	-	
	Top-Pull exclusive	-	-	-	-	-	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	X	X	X	
Chain line (mm)		50	50	50	48.8	48.8	48.8	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		42-40T	42-40T	42-40T	34-38T	34-38T	34-38T	
Total capacity		18T	18T	18T	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	-	
Link bushings		6	6	6	8	2	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	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	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	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)		155g	140.9g	143g	147g	132g	136g	
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.		

Front Derailleur

Series		SLX	SLX	SLX	SLX	SLX	SLX	
Model no.		FD-M7020-11-E	FD-M7025-11-H	FD-M7025-11-L	FD-M7025-11-D	FD-M7025-11-E	FD-M677-H	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	2	2	2	
	Rear	11	11	11	11	11	10	
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X 10-speed	
Action	Top Swing	-	-	X	-	X	-	
	Down Swing	-	X	-	X	-	-	
	Side Swing	X	-	-	-	-	X	
Mount	Clamp Band	28.6mm	-	-*	-*	-	X (w/ S size adapter)	
		31.8mm	-	X (w/ M size adaptor)	X (w/ M size adaptor)	-	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	-	-	
	Top-Pull exclusive	-	-	-	-	-	-	
	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	36-38T	
Total capacity		10T	10T	10T	10T	10T	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	-	-	X	
Link bushings		2	6	6	6	6	6	
Front clamp band	Material	-	Aluminum	Aluminum	-	-	Aluminum	
	Finish	-	Painted	Painted	-	-	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	-	-	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	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	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	Steel	
	Finish	-	-	-	-	-	Black	
Average weight (pc) (Band type: L size, direct type w/ bolt)		122g	152g	133g	140g	123g	149g	
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-M677-L	FD-M677-D	FD-M677-E	FD-M671-A-B	FD-M671-A-D	FD-M660	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	3	3	3	
	Rear	10	10	10	10	10	9	
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	
Action	Top Swing	-	-	-	-	-	X	
	Down Swing	-	-	-	X	X	-	
	Side Swing	X	X	X	-	-	-	
Mount	Clamp Band	28.6mm	X (w/ S size adapter)	-	-	X (w/ S size adapter)	-	X (w/ S size adapter)
		31.8mm	X (w/ M size adapter)	-	-	X (w/ M size adapter)	-	X (w/ M size adapter)
		34.9mm	X	-	-	X	-	X
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	X	-	-	-
	Direct Mount	-	X	-	-	X	-	
Cable route type	Dual-Pull	-	-	-	X	X	X	
	Top-Pull exclusive	-	-	-	X	X	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	X	X	X	-	-	-	
Chain line (mm)		48.8	48.8*	48.8	50	50	50	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		36-38T	36-38T	36-38T	40-42T	40-42T	44T	
Total capacity		14T	14T	14T	18T	18T	22T	
Applicable Top-Mid tooth difference		-	-	-	10T	10T	12T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	-	-	X	-	X	
Link bushings		6	6	6	8	8	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	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	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	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	Steel	Steel	Steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	-	-	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		133g	141g	124g	155g	145g	155g	
Note			*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.	*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.			*Outer cable stopper integrated design.	

Front Derailleur

Series		SLX	SLX	SLX	DEORE	DEORE	DEORE
Model no.		FD-M660-E	FD-M661	FD-M661-D	FD-M612-H	FD-M612-L	FD-M612-D
Color	1	Series color	Series color	Series color	Black	Black	Black
	2	-	-	-	-	-	-
Speeds	Front	3	3	3	3	3	3
	Rear	9	9	9	10	10	10
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Action	Top Swing	X	-	-	-	-	-
	Down Swing	-	X	X	-	-	-
	Side Swing	-	-	-	X	X	X
Mount	Clamp Band	28.6mm	-	X (w/ S size adapter)	-	X (w/ S size adapter)	X (w/ S size adapter)
		31.8mm	-	X (w/ M size adapter)	-	X (w/ M size adapter)	X (w/ M size adapter)
		34.9mm	-	X	-	X	X
	E-type	With BB Plate	X	-	-	-	-
		Without BB Plate	-	-	-	-	-
	Direct Mount	-	-	X	-	-	X
Cable route type	Dual-Pull	X	X	X	-	-	-
	Top-Pull exclusive	-	-	-	-	-	-
	Down-Pull exclusive	-	-	-	-	-	-
	Front-Pull	-	-	-	X	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		44T	44T	44T	40-42T	40-42T	40-42T
Total capacity		22T	22T	22T	18T	18T	18T
Applicable Top-Mid tooth difference		12T	12T	12T	10T	10T	10T
Multi access cable fixing bolt		-	-	-	-	-	-
Angled stroke adjust bolt		X	X	X	X	X	X
Angled clamp band design		-	X	-	X	X	-
Link bushings		2	8	8	6	6	6
Front clamp band	Material	-	Aluminum	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	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	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	Steel	Steel	Steel
	Finish	-	-	-	Black	Black	Black
Average weight (pc) (Band type: L size, direct type w/ bolt)		170g	158g	150g	-	-	-
Note							

Front Derailleur

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE	
Model no.		FD-M612-E	FD-M617-H	FD-M617-L	FD-M617-D	FD-M617-E	FD-M618-H	
Color	1	Black	Black	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
Speeds	Front	3	2	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	-	-	-	-	-	-	
	Down Swing	-	-	-	-	-	X	
	Side Swing	X	X	X	X	X	-	
Mount	Clamp Band	28.6mm	-	X (w/ S size adapter)	X (w/ S size adapter)	-	X (w/ S size adapter)	
		31.8mm	-	X (w/ M size adapter)	X (w/ M size adapter)	-	X (w/ M size adapter)	
		34.9mm	-	X	X	-	X	
	E-type	With BB Plate	-	-	-	-	-	-
		Without BB Plate	X	-	-	-	X	-
	Direct Mount	-	-	-	X	-	-	
Cable route type	Dual-Pull	-	-	-	-	-	X	
	Top-Pull exclusive	-	-	-	-	-	X	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	X	X	X	X	X	-	
Chain line (mm)		50	48.8	48.8	48.8	48.8	48.8	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		40-42T	36-38T	36-38T	36-38T	36-38T	36-38T	
Total capacity		18T	14T	14T	14T	14T	14T	
Applicable Top-Mid tooth difference		10T	-	-	-	-	-	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		-	X	X	-	-	X	
Link bushings		6	6	6	6	6	8	
Front clamp band	Material	-	Aluminum	Aluminum	-	-	Aluminum	
	Finish	-	Painted	Painted	-	-	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	-	Stainless steel	Stainless steel	-	-	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	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	Steel	Steel	Steel	Steel	Steel	Stainless steel	
	Finish	Black	Black	Black	Black	Black	-	
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note					*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.	*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.		

Front Derailleur

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE	
Model no.		FD-M618-L	FD-M618-D	FD-M618-E	FD-M610-B	FD-M610-E	FD-M611-B	
Color	1	Black	Black	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	3	3	3	
	Rear	10	10	10	10	10	10	
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 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*	50	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	40-42T	40-42T	40-42T	
Total capacity		14T	14T	14T	18T	18T	18T	
Applicable Top-Mid tooth difference		-	-	-	10T	10T	10T	
Multi access cable fixing bolt		-	-	-	X	X	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	-	-	X	-	X	
Link bushings		2	8	2	2	2	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	Stainless steel	-	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Aluminum	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	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 chain line is 3mm outboard. The special frame is required.	*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.				

Front Derailleur

Series		DEORE	DEORE	DEORE	DEORE	DEORE	ALIVIO	
Model no.		FD-M611-D	FD-M615-B	FD-M615-E2	FD-M616-B	FD-M616-D	FD-M4000-TS3	
Color	1	Black	Black	Black	Black	Black	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	2	2	2	2	3	
	Rear	10	10	10	10	10	9	
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	
Action	Top Swing	-	X	X	-	-	X	
	Down Swing	X	-	-	X	X	-	
	Side Swing	-	-	-	-	-	-	
Mount	Clamp Band	28.6mm	-	X (w/ S size adapter)	-	X (w/ S size adapter)	-	X (w/ S size adapter)
		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	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	-	-	-	
Chain line (mm)		50	48.8	48.8	48.8	48.8	50	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	63-66	
Top gear teeth		40-42T	38-44T	38-40T	38-44T	38-44T	40T	
Total capacity		18T	14T	14T	14T	14T	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	2	8	8	-	
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	
Clamp bolt	Material	-	Stainless steel	-	Stainless steel	-	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Steel	Steel	Aluminum	Aluminum	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	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		ALIVIO	ALIVIO	ALIVIO	ALIVIO	ACERA	ACERA	
Model no.		FD-M4000-TS6	FD-M4000-DS3	FD-M4000-DS6	FD-M410-E	FD-M3000-TS3	FD-M3000-TS6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	3	
	Rear	9	9	9	8/7	9	9	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 8/7-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	-	-	-	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		66-69	63-66	66-69	63-69 *	63-66	66-69	
Top gear teeth		40T	40T	40T	42T	40T	40T	
Total capacity		18T	18T	18T	20T	18T	18T	
Applicable Top-Mid tooth difference		10T	10T	10T	10T	10T	10T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	-	X	X	
Angled clamp band design		X	X	X	-	X	X	
Link bushings		-	2	2	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Steel	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	Aluminum	Aluminum	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
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	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Stainless steel	Stainless steel	
	Finish	-	-	-	Nickel plated	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel	
	Finish	-	-	-	Zinc plated	Zinc plated	Zinc plated	
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note					* Slits are required on the right side edge of BB shell.			

Front Derailleur

Series		ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	
Model no.		FD-M370-3	FD-M370-6	FD-M371-3	FD-M371-6	FD-M313-3	FD-M313-6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	3	
	Rear	9	9	9	9	8/7	8/7	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-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	50	47.5 / 50	47.5 / 50	
Chain stay angle		63-66	66-69	63-66	66-69	63-66	66-69	
Top gear teeth		44T/48T	44T/48T	44T/48T	44T/48T	42/48T	42/48T	
Total capacity		22T	22T	22T	22T	20T	20T	
Applicable Top-Mid tooth difference		12T	12T	12T	12T	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	Steel	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note								

Front Derailleur

Series		ALTUS	ALTUS	TOURNEY	TOURNEY	TOURNEY	TOURNEY	
Model no.		FD-M310-3	FD-M310-6	FD-TY700-TS3	FD-TY700-TS6	FD-TY710-TS3	FD-TY710-TS6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	3	
	Rear	8/7	8/7	8/7	8/7	8/7	8/7	
Compatible chain		HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	
Action	Top Swing	X	X	X	X	X	X	
	Down Swing	-	-	-	-	-	-	
	Side Swing	-	-	-	-	-	-	
Mount	Clamp Band	28.6mm	X (w/ S size adapter)	X (w/ S size adapter)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	
		31.8mm	X (w/ M size adapter)	X (w/ M size adapter)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	
		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)		47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	
Chain stay angle		63-66	66-69	63-66	66-69	63-66	66-69	
Top gear teeth		42/48T	42/48T	42T	42T	48T	48T	
Total capacity		20T	20T	18T	18T	20T	20T	
Applicable Top-Mid tooth difference		10T	10T	8T	8T	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	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note								

Front Derailleur

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	TOURNEY TX	TOURNEY TX	
Model no.		FD-M190-3	FD-M190A-6	FD-M191-3	FD-M191-6	FD-TX800-TS3	FD-TX800-TS6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	3	
	Rear	8/7	8/7	8/7	8/7	8/7	8/7	
Compatible chain		HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	
Action	Top Swing	X	X	X	X	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	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		63-66	66-69	63-66	66-69	63-66	66-69	
Top gear teeth		42T	42T	48T	48T	42/48T	42/48T	
Total capacity		18T	18T	20T	20T	20T	20T	
Applicable Top-Mid tooth difference		8T	8T	10T	10T	10T	10T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		-	-	-	-	-	-	
Angled clamp band design		X	X	X	X	X	X	
Link bushings		-	-	-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note								

Front Derailleur

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	
Model no.		FD-TY500-TS3	FD-TY500-TS6	FD-TY510-TS3	FD-TY510-TS6	FD-TX51-3	FD-TX51-6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	3	
	Rear	7/6	7/6	7/6	7/6	7/6	7/6	
Compatible chain		HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	
Action	Top Swing	X	X	X	X	X	X	
	Down Swing	-	-	-	-	-	-	
	Side Swing	-	-	-	-	-	-	
Mount	Clamp Band	28.6mm	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/ S size adapter)	X (w/ S size adapter)
		31.8mm	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	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)		47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	
Chain stay angle		63-66	66-69	63-66	66-69	63-66	66-69	
Top gear teeth		42T	42T	48T	48T	48T	48T	
Total capacity		18T	18T	20T	20T	20T	20T	
Applicable Top-Mid tooth difference		8T	8T	10T	10T	10T	10T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		-	-	-	-	-	-	
Angled clamp band design		X	X	X	X	X	X	
Link bushings		-	-	-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	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 / Painted	Chrome plated / Painted	Chrome plated / Painted	Chrome plated / Painted	Zinc plated / Painted	Zinc 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								

Front Derailleur

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	
Model no.		FD-TY300-D56	FD-TY300-D56	FD-TZ30	FD-TZ31	
Color	1	Series color	Series color	Series color	Series color	
	2	-	-	-	-	
Speeds	Front	3	3	3 (friction)	3 (friction)	
	Rear	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	
Action	Top Swing	-	-	-	-	
	Down Swing	X	X	X	X	
	Side Swing	-	-	-	-	
Mount	Clamp Band	28.6mm	X	-	X	
		31.8mm	X	-	X	
		34.9mm	-	X	-	
	E-type	With BB Plate	-	-	-	-
		Without BB Plate	-	-	-	-
Direct Mount	-	-	-	-		
Cable route type	Dual-Pull	-	-	-	-	
	Top-Pull exclusive	X	X	X	X	
	Down-Pull exclusive	X	X	X	X	
	Front-Pull	-	-	-	-	
Chain line (mm)		47.5	50	47.5	47.5	
Chain stay angle		66-69	66-69	66-69	66-69	
Top gear teeth		42T	42T	42T	48T	
Total capacity		18T	18T	18T	20T	
Applicable Top-Mid tooth difference		8T	8T	8T	10T	
Multi access cable fixing bolt		-	-	-	-	
Angled stroke adjust bolt		-	-	-	-	
Angled clamp band design		-	-	-	-	
Link bushings		-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Zinc plated	Zinc plated	
BB plate	Material	-	-	-	-	
	Finish	-	-	-	-	
Outer link	Material	Steel / Resin	Steel / Resin	Steel / Resin	Steel / Resin	
	Finish	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Painted	Painted	
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	
Note						

SL

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

FC

CR

CD

BB

BB

CS

MF

FH

FH

HB

HB

WH

CI-DECK

Brake (Disc Brake)

Series		XTR	XTR	SAINT	DEORE XT	SLX	ZEE
Model no.		BR-M9000	BR-M9020	BR-M820	BR-M8000	BR-M7000	BR-M640
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-SBM	SM-BH90-SBM	SM-BH90-SBS
Hose joint		Banjo	Banjo	Banjo	Banjo	Banjo	Banjo
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	White	-	-	White
Ice technology pad compatible caliper		X	X	X	X	X	X
Pad	Standard 1	G02A Resin	J02 A Resin	H01A Resin	G02A Resin	G02S Resin	D01S Resin
	Standard 2	G04Ti Metal	J04C Metal	H03C Metal	J02 A Resin	J02A Resin	D02S Metal
	Option 1	J02 A Resin	G02A Resin	-	G04S Metal	G04S Metal	H01A Resin
	Option 2	J04C Metal	G04Ti Metal	-	J04C Metal	J04C Metal	-
Recommended brake lever		BL-M9000	BL-M9020	BL-M820	BL-M8000	BL-M7000	BL-M640
Recommended brake rotor		*SM-RT99	*SM-RT99	SM-RT99 SM-RT86	SM-RT81 SM-RT86	SM-RT70 SM-RT66	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	2	4
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	Stainless steel	Stainless steel
	Tool size	**4mm	**4mm	5mm	5mm	5mm	5mm
	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	Split pin
Average weight (kit for front 800mm, w/160mm recommend RT, w/lock ring, w/o adapter, w/2bolts, w/ Resin pad)		316.1g	359.6g	306g** (w/radiator fin)	402.5g	418.8g	314g**
Note		J-Kit spec available *140mm for rear only **Titanium	J-Kit spec available *140mm for rear only **Titanium	**single item weight	J-Kit spec available	J-Kit spec available	**single item weight

Brake (Disc Brake)

Series		DEORE	DEORE	SHIMANO	SHIMANO	ALIVIO	ACERA
Model no.		BR-M615	BR-M615	BR-M447	BR-M446	BR-M4050	BR-M3050
Color	1	Black	Black	Black	Black	Series color	Series color
	2	-	-	Silver	Silver	-	-
	3	-	-	White	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-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	White	White	White	White	-	-
Ice technology pad compatible caliper		X	X	-	-	-	-
Pad	Standard 1	G01S Resin	G01S Resin	B01S Resin	B01S Resin	B01S Resin	B01S Resin
	Standard 2	G03S Metal	G03S Metal	-	-	-	-
	Option 1	F01A Resin	F01A Resin	-	-	-	-
	Option 2	-	-	-	-	-	-
Recommended brake lever		BL-M615	BL-M615	BL-M506	BL-T445	ST-M4050	ST-M3050
Recommended brake rotor		SM-RT64 SM-RT66	SM-RT64 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	2	2	2	2	2
Piston material		Resin	Resin	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	Steel	Steel	Steel	Steel	Steel
	Tool size	5mm	5mm	5mm	5mm	5mm	5mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		Split pin	Split pin	Split pin	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			J-Kit spec available	J-Kit spec available SHIMANO logo	SHIMANO logo	J-Kit spec available	J-Kit spec available

Brake (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	TOURNEY TX
Model no.		BR-M395	BR-M375	BR-M365	BR-M315	BR-TX805
Color	1	Black	Black	Black	Black	Black
	2	White	Silver	White	-	-
	3	-	-	-	-	-
Brake type		Hydraulic disc brake	Mechanical Disc-brake	Hydraulic disc brake	Hydraulic disc brake	Mechanical Disc-brake
Brake hose (kit)		SM-BH59-JK-SS	Cable	SM-BH59-JK-SS	SM-BH59-JK-SS	Cable
Hose joint		Straight	-	Straight	Straight	-
Brake hose color (kit)	1	Black	-	Black	Black	-
	2	-	-	-	-	-
Ice technology pad compatible caliper		-	-	-	-	-
Pad	Standard 1	B01S Resin	B01S Resin	B01S Resin	B01S Resin	B01S Resin
	Standard 2	-	-	-	-	-
	Option 1	-	-	-	-	-
	Option 2	-	-	-	-	-
Recommended brake lever		BL-M425 / BL-M395	V-BRAKE BL (1.5-2.5 finger)	BL-M365	BL-M315	V-BRAKE BL (1.5-2.5 finger)
Recommended brake rotor		SM-RT30 SM-RT54 SM-RT56	SM-RT30 SM-RT54 SM-RT56	SM-RT10 SM-RT26	SM-RT10 SM-RT26	SM-RT30 SM-RT56
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	Post-type	Post-type
Piston		2	1	2	2	1
Piston material		Resin	-	Resin	Resin	-
Caliper	Mono-body	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel	Steel
	Tool size	5mm	5mm	5mm	5mm	5mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		Split pin	Split pin	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		J-Kit spec available SHIMANO logo		J-Kit spec available	J-Kit spec available	

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		184g
Note		

SL

SMSL

BL

BL

ST

ST

RD

FD

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BR

FC

CR

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BB

BB

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FH

HB

HB

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	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
Chain line (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 ***
Chain ring 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)	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 Technology		X	X	X	X	X	X
2-piece crank construction		-	-	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK technology		-	-	-	-	-	-
HOLLOWGLIDE		X	X	X	X*	-	X
Compatible BB type	Outboard	X	X	X	X	X	X
	Octalink	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded BB shell width	68mm	X	X	X	X	X	X
	73mm	X	X	X	X	X	X
	83mm	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	Aluminum	-	-	-
	Finish	-	-	Anodized	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum/CFRP	Titanium / Aluminum / CFRP	Ti + Aluminum	Stainless steel / Aluminum / CFRP **	Stainless steel / Aluminum / CFRP **	Titanium / Aluminum / CFRP
	Finish	Anodized	Anodized	-	Anodized	Anodized	Anodized
Middle ring	Material	Titanium/CFRP	-	-	-	-	-
	Finish	Shot Blasting	-	-	-	-	-
Inner ring	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
	Finish	Plated	Plated	Plated	-	-	Plated
Outer / middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	-	Anodized	-	-	-
Inner ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
	Finish	-	-	Anodized	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		-	-	-	-	-	-
Average weight (175mm, w/o BB)		656g	667g (38-28T) 649g (36-26T) 629g (34-24T)	664g (36-26T) 645g (34-24T)	620g (36T) 603g (34T) 586g (32T) 578g (30T)	601g (32T) 593g (30T)	649g (38-28T) 631g (36-26T) 611g (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.	-Chain line 3mm outboard -It requires special dimension of frame which cassette position and FD mount position are 3mm 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
Chain line (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
Chain ring 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)	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 Technology	X	X	X	X	X	X
2-piece crank construction	-	-	-	-	-	-
HOLLOWTECH crank arm	-	-	-	-	-	-
OCTALINK technology	-	-	-	-	-	-
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	-	-	-	-	-	-
Crank fixing bolt included	-	-	-	-	-	-
Average weight (175mm, w/o BB)	616g (36T) 600g (34T) 598g (32T) 586g (30T)	847g (38T) 837g (36T) 827g (34T)	858g (38T) 849g (36T) 838g (34T)	773.9g	738.9g (38-28T) 718.1g (36-26T) 695.5g (34-24T)	721.6g (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		-Chain line 3mm outboard -It requires special dimension of frame which cassette position and FD mount position are 3mm outboard. -Only E type and D type FD are compatible with the special frame	

SL

SMSL

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BL

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FD

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FC

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WH

CI-DECK

Crankset

Series	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX
Model no.	FC-M8000-1	FC-M8000-B1	FC-M780	FC-M782	FC-M785	FC-M7000-11-2
Color	1	Series color	Series color	Black	Black	Series color
	2	-	-	Silver	Silver	-
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
Chain line (mm)	50.4	53.4	50	50	48.8	48.8
P.C.D. (mm)	96	96	104/64	96/64	104/64	96/64
Gear arms	4arm	4arm	4arm	4arm	4arm	4arm
Chain ring combination	34, 32, 30T (SM-CRM81)	32, 30T (SM-CRM81)	42-32-24T	40-30-22T	40-28T 38-26T 38-24T	38-28T 36-26T 34-24T
Q-factor (mm)	176	176	175	175	175	175
Crank arm length (mm)	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 Technology	X	X	X	X	X	X
2-piece crank construction	-	-	-	-	-	-
HOLLOWTECH crank arm	-	-	-	-	-	-
OCTALINK technology	-	-	-	-	-	-
HOLLOWGLIDE	-	-	-	-	-	-
Compatible BB type	Outboard	X	X	X	X	X
	Octalink	-	-	-	-	-
	Square	-	-	-	-	-
Recommended BB	Threaded (normal)	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	SM-BB71-41A
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-
Threaded BB shell width	68mm	X	X	X	X	X
	73mm	X	X	X	X	X
	83mm	-	-	-	-	-
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	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Spider arm cover	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Outer ring	Material	Stainless steel/CFRP	Steel +CF composite	Aluminum	Aluminum	Aluminum +GF composite
	Finish	Painted(body)	Plated (teeth) Painted (body)	Anodized	Anodized	Anodized
Middle ring	Material	-	-	Steel +CF composite	Steel +CF composite	-
	Finish	-	-	Plated	Plated	-
Inner ring	Material	-	-	Aluminum	Aluminum	Aluminum
	Finish	-	-	Plated	Plated	Plated
Outer / middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing bolt	Material	-	-	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-
Stainless chain guard fixing bolt	-	-	-	-	-	-
Crank fixing bolt included	-	-	-	-	-	-
Average weight (175mm, w/o BB)	699.8g (34T) 694.5g (32T) 680.0g (30T)	698.0g (36T)	767.6g	778g	727.6g (40-28T) 717.6g (38-26T) 715.8g (38-24T)	788.7g (28-28T) 761.4g (36-26T) 739.8g (34-24T)
Note	w/o chain ring spec available for OTC, Chain ring is sold separately(SM-CRM80)	-Chain line 3mm outboard -It requires special dimension of frame which cassette position and FD mount position are 3mm outboard. -Only E type and D type FD are compatible with the special frame		FD-M780-A/M781-A		

Crankset

Series		SLX	SLX	SLX	SLX	SHIMANO	SHIMANO
Model no.		FC-M7000-11-B2	FC-M7000-11-1	FC-M7000-11-B1	FC-M7000-10-3	FC-MT700-2	FC-MT700-B2
Color	1	Series color	Series color	Series color	Series color	Black	Black
	2	-	-	-	-	-	-
Rear speeds		11	11	11	10	11	11
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X	HG-X11	HG-X11
Chain line (mm)		51.8	50	53	50	48.8	51.8
P.C.D. (mm)		96/64	96	96	96/64	*96/64	96/64
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Chain ring combination		36-26T 34-24T	34, 32, 30T (SM-CRM70)	32, 30T (SM-CRM70)	40-30-22T	36-26T 34-24T (NEW)	36-26T 34-24T
Q-factor (mm)		175	175	175	175	175	175
Crank arm length (mm)	165.0	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
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 Technology		X	X	X	X	X	X
2-piece crank construction		-	-	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK technology		-	-	-	-	-	-
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	Aluminum +GF composite	Steel +GF composite	Steel +GF composite	Aluminum	Aluminum +GF composite	Aluminum +GF composite
	Finish	Plated(teeth)	Plated(teeth)	Plated(teeth)	Anodized	Plated(teeth)	Plated(teeth)
Middle ring	Material	-	-	-	Steel +GF composite	-	-
	Finish	-	-	-	Plated(teeth)	-	-
Inner ring	Material	Aluminum	-	-	Steel	Aluminum	Aluminum
	Finish	Plated	-	-	Painted	Plated	Plated
Outer / middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Stainless steel	Stainless steel
	Finish	Anodized	Anodized	Anodized	Anodized	-	-
Inner ring fixing bolt	Material	Stainless steel	-	-	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		-	-	-	-	-	-
Average weight (175mm, w/o BB)		764.3g (36-26T) 742.8g (34-24T)	721.1g (34T) 715.4g (32T) 699.3g (30T)	718.3g (32T) 702.3g (30T)	801.1g (40-30-22T)	735.4g (36-26T) 708.9g (34-24T)	738.9g (36-26T) 712.4g (34-24T)
Note		Chain line 3mm outboard	w/o chain ring spec available for OTC, Chain ring is sold separately(SM-CRM70)	Chain line 3mm outboard , w/o chain ring spec available for OTC, Chain ring is sold separately(SM-CRM70)		* Spider arm angle is special.	

Crankset

Series	SHIMANO	SLX	ZEE	ZEE	SHIMANO	SHIMANO
Model no.	FC-MT500-3	FC-M677	FC-M640	FC-M645	FC-M627	FC-M627-B
Color	1	Black	Series color	Series color	Black	Black
	2	-	-	-	-	-
Rear speeds	10	10	10	10	10	10
Compatible chain	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Chain line (mm)	50	48.8	50.4	57.9	48.8	51.8
P.C.D. (mm)	96/64	104/64	104	104	104/64	104/64
Gear arms	4arm	4arm	4arm	4arm	4arm	4arm
Chain ring combination	40-30-22T	38-24T 36-22T	38, 36, 34T (FC-M640/M645 chain ring)	38, 36, 34T (FC-M640/M645 chain ring)	38-24T 36-22T	36-22T
Q-factor (mm)	176	175	174.7	189.7	176	176
Crank arm length (mm)	165.0	-	-	X	-	-
	167.5	-	-	-	-	-
	170.0	X	X	X	X	X
	172.5	-	-	-	-	-
	175.0	X	X	X	X	X
	177.5	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-
	With chain guard	X	-	-	-	-
	Without chain / bash guard	X	X	X	X	X
Crank arm fixing bolt	With	X	X	X	X	X
	Without	-	-	-	-	-
HOLLOWTECH II Technology	-	X	-	-	-	-
2-piece crank construction	X	-	X	X	X	X
HOLLOWTECH crank arm	-	-	-	-	-	-
OCTALINK technology	-	-	-	-	-	-
HOLLOWGLIDE	-	-	-	-	-	-
Compatible BB type	Outboard	X	X	X	X	X
	Octalink	-	-	-	-	-
	Square	-	-	-	-	-
Recommended BB	Threaded (normal)	SM-BB52	-	SM-BB52	SM-BB52	SM-BB52
	Threaded (E-type)	SM-BB52	-	SM-BB52	SM-BB52	SM-BB52
	Threaded (chain case)	-	-	-	-	-
	Pressfit	BB-MT500-PA	SM-BB71-41A	SM-BB71-41A	SM-BB71-41C	BB-MT500-PA
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-
Threaded BB shell width	68mm	X	X	X	-	X
	73mm	X	X	X	-	X
	83mm	-	-	-	X	-
Chain case compatible	-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	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
	Finish	Anodized	Anodized	-	-	Anodized
Middle ring	Material	Steel	-	Aluminum	Aluminum	-
	Finish	Plated	-	Anodized	Anodized	-
Inner ring	Material	Steel	Steel	-	-	Steel
	Finish	Painted	Painted	-	-	Painted
Outer / middle ring fixing bolt	Material	Stainless steel*	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	-	-	Stainless steel
	Finish	-	-	-	-	-
Stainless chain guard fixing bolt	-	-	-	-	-	-
Crank fixing bolt included	X	-	-	-	-	-
Average weight (175mm, w/o BB)	-	743g 722g	828g (38T) 817g (36T) 807g (34T)	858g (38T) 847g (36T) 837g (34T)	-	-
Note	*it is fixed on the threaded middle ring.			for 83mm BB shell width		-Chain line 3mm outboard -It requires special dimension of frame which cassette position and FD mount position are 3mm outboard. -Only E type and D type FD are compatible with the special frame

Crankset

Series		SHIMANO	DEORE	SHIMANO DEORE	DEORE	DEORE	DEORE
Model no.		FC-M622	FC-M617	FC-M617-B2	FC-M610	FC-M610	FC-M612
Color	1	Black	Black	Black	Black	Black	Black
	2	-	Silver	Silver	Silver	Silver	Silver
Rear speeds		10	10	10	10	10	10
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Chain line (mm)		50	48.8	51.8	50	50	50
P.C.D. (mm)		96/64	104/64	104/64	104/64	104/64	96/64
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Chain ring combination		40-30-22T	38-24T 36-22T	36-22T	42-32-24T	48-36-26T	40-30-22T
Q-factor (mm)		176	176	176	176	176	176
Crank arm length (mm)	165.0	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
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 Technology		-	-	-	-	-	-
2-piece crank construction		X	X	X	X	X	X
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK technology		-	-	-	-	-	-
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	SM-BB52	SM-BB52	-	SM-BB52
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	SM-BB71-41A	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	Painted	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	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	Steel +GF composite	-	-	Steel +GF composite	Steel	Steel +GF composite
	Finish	Plated	-	-	Plated	Painted	Plated
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		-	-	-	-	-	-
Crank fixing bolt included		-	-	-	-	-	-
Average weight (175mm, w/o BB)		-	-	-	-	-	-
Note							

Crankset

Series	DEORE	SHIMANO	SHIMANO	DEORE	SHIMANO	ALIVIO
Model no.	FC-M615	FC-M523	FC-M522	FC-M591	FC-M4000	FC-M4050
Color	1	Black	Black	Black	Series color	Series color
	2	Silver	Silver	Silver	-	-
Rear speeds	10	10	10	9	9	9
Compatible chain	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG for 9-speed	HG 9-speed	HG 9-speed
Chain line (mm)	48.8	50	50	50	50	50
P.C.D. (mm)	104/64	96/64	104/64	104/64	96/64	96/64
Gear arms	4arm	4arm	4arm	4arm	4arm	4arm
Chain ring combination	40-28T 38-26T 38-24T	40-30-22T	42-32-24T	44-32-22T 48-36-26T	40-30-22T	40-30-22T
Q-factor (mm)	176	182.8	177.8	181.2	179.8	176
Crank arm length (mm)	165.0	-	-	-	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	X	X
	Without chain / bash guard	X	X	X	X	X
Crank arm fixing bolt	With	X	X	X	X	X
	Without	-	-	-	-	-
HOLLOWTECH II Technology	-	-	-	-	-	-
2-piece crank construction	X	-	-	X	-	X
HOLLOWTECH crank arm	-	X	X	-	-	-
OCTALINK technology	-	X	X	-	X	-
HOLLOWGLIDE	-	-	-	-	-	-
Compatible BB type	Outboard	X	-	-	X	X
	Octalink	-	X	X	-	-
	Square	-	-	-	-	-
Recommended BB	Threaded (normal)	SM-BB52	BB-ES300	BB-ES300	SM-BB52	BB-ES300
	Threaded (E-type)	SM-BB52	BB-ES300-E	BB-ES300-E	-	-
	Threaded (chain case)	-	-	-	SM-BB52	-
	Pressfit	BB-MT500-PA	-	-	-	BB-MT500-PA
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	118	113	-	118
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-
Threaded BB shell width	68mm	X	X	X	X	X
	73mm	X	-	-	X	X
	83mm	-	-	-	-	-
Chain case compatible	-	-	-	X	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	-	-	Steel	Steel
	Finish	Plated	-	-	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	Aluminum	-	Aluminum
	Finish	Painted	Painted	Painted	-	Painted
Spider arm cover	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Painted
Middle ring	Material	-	Steel +GF composite	Steel +GF composite	Steel	Steel
	Finish	-	Plated	Plated	Painted	Painted
Inner ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Stainless chain guard fixing bolt	-	-	-	-	-	-
Crank fixing bolt included	-	X	X	-	X	-
Average weight (175mm, w/o BB)	-	-	-	-	-	-
Note						

Crankset

Series		ALIVIO	ACERA	SHIMANO	SHIMANO	SHIMANO	ACERA
Model no.		FC-M4060	FC-M3000-8	FC-M3000	FC-M371	FC-M351	FC-M361
Color	1	Series color	Series color	Series color	Black	Black	Black
	2	-	-	-	Silver	Silver	Silver
Rear speeds		9	9	9	9	9	8/7
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG for 9-speed	HG for 9-speed	HG for 8/7-speed
Chain line (mm)		50	50	50	50	50	50
P.C.D. (mm)		104/64	96/64	96/64	Riveted	Riveted	104/64
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Chain ring combination		48-36-26T	40-30-22T	40-30-22T	44-32-22T 48-36-26T	44-32-22T	48-38-28T 42-32-22T
Q-factor (mm)		176	180.1	179.1	180.5	186.4	185.9
Crank arm length (mm)	165.0	X	X	X	X	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	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 Technology		-	-	-	-	-	-
2-piece crank construction		X	-	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK technology		-	X	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	-	-	-	-	-
	Octalink	-	X	-	-	-	-
	Square	-	-	X	X	X	X
Recommended BB	Threaded (normal)	SM-BB52	BB-ES300	BB-UN26	BB-UN26	BB-UN26	BB-UN26
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	BB-UN26-K	BB-UN26-K	BB-UN26-K
	Pressfit	BB-MT500-PA	-	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	118	LL113	LL123	LL123	LL123
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	LL123-K	LL123-K	LL123-K
Threaded BB shell width	68mm	X	X	X	X	X	X
	73mm	X	-	X	X	X	X
	83mm	-	-	-	-	-	-
Chain case compatible		-	-	-	X	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	Aluminum	-	-	-	-	-
	Finish	Painted	-	-	-	-	-
Spider arm cover	Material	-	-	-	Resin	Resin	-
	Finish	-	-	-	Resin	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	Steel
	Finish	Painted	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	Stainless steel	-	-	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	-	-	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		-	X	X	X	X	X
Average weight (175mm, w/o BB)		-	-	-	-	-	-
Note					SHIMANO logo	SHIMANO logo	SHIMANO logo, * 48-38-28 Silver with CG spec

Crankset

Series	ALTUS	TOURNEY TX	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	FC-M311	FC-TX801	FC-TY701	FC-TY701	FC-TY501	FC-TY301
Color	1	Black	Black	Light Grey Metallic	Metallic Black	Black
	2	Silver	Silver	Silver	Silver	-
Rear speeds	8/7	8/7	8/7/6	8/7/6	8/7/6	8/7/6
Compatible chain	HG for 8/7-speed	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	HG/UG for 8/7/6-speed
Chain line (mm)	50	50	47.5 / 47.5+t	47.5 / 47.5+t	47.5 / 47.5+t	47.5 / 47.5+t
P.C.D. (mm)	Riveted	Riveted	Riveted	Riveted	Riveted	Riveted
Gear arms	4arm	4arm	4arm	4arm	4arm	4arm
Chain ring combination	48-38-28T 42-32-22T	48-38-28T 42-32-22T	48-38-28T 42-34-24T	42-34-24T	48-38-28T 42-34-24T	48-38-28T 42-34-24T
Q-factor (mm)	187.9	187.9	185.5	185.5	185.5	181.5
Crank arm length (mm)	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	-	-	-	-	-
	180.0	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-
	With chain guard	X	X	X (separate type)	X (separate type)	X (integrated type)
	Without chain / bash guard	X	X	X	X	X
Crank arm fixing bolt	With	X	X	X	X	-
	Without	-	-	-	-	X
HOLLOWTECH II Technology	-	-	-	-	-	-
2-piece crank construction	-	-	-	-	-	-
HOLLOWTECH crank arm	-	-	-	-	-	-
OCTALINK technology	-	-	-	-	-	-
HOLLOWGLIDE	-	-	-	-	-	-
Compatible BB type	Outboard	-	-	-	-	-
	Octalink	-	-	-	-	-
	Square	X	X	X	X	X
Recommended BB	Threaded (normal)	BB-UN26	BB-UN100	BB-UN100	BB-UN100	BB-UN100
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	BB-UN26-K	BB-UN100-K	BB-UN100-K	BB-UN100-K	BB-UN100-K
	Pressfit	-	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	LL123	LL123	D-NL	D-NL	D-NL
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	LL123-K	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	X	X
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Spider arm	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Spider arm cover	Material	Resin	Resin	Resin	Resin	Resin
	Finish	Resin	Resin	Painted	Painted	-(black) Painted (silver)
Outer ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted_Black (Light Grey Metallic) Painted_Silver (Silver)	Painted (Black)	Painted
Middle ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted_Silver	Painted (Black)	Painted
Inner ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted_Black (Light Grey Metallic) Painted_Silver (Silver)	Painted (Black)	Painted
Outer / middle ring fixing bolt	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Inner ring fixing bolt	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Stainless chain guard fixing bolt	-	-	-	-	-	-
Crank fixing bolt included	X	X	X	X	X (option)	-
Average weight (175mm, w/o BB)	-	-	-	-	-	-
Note	SHIMANO logo					

Crankset

Series		DXR
Model no.		FC-MX71
Color	1	Series color
	2	-
Rear speeds		1
Compatible chain		Single speed
Chain line (mm)		44
P.C.D. (mm)		104/64
Gear arms		4arm
Chain ring combination		34, 38, 41, 42, 43, 44, 46T
Q-factor (mm)		173
Crank arm length (mm)	165.0	X
	167.5	-
	170.0	X
	172.5	-
	175.0	X
	177.5	-
	180.0	X
Optional chain guard	With bash guard	-
	With chain guard	-
	Without chain / bash guard	X
Crank arm fixing bolt	With	-
	Without	X
HOLLOWTECH II Technology		X
2-piece crank construction		X
HOLLOWTECH crank arm		X
OCTALINK technology		-
HOLLOWGLIDE		-
Compatible BB type	Outboard	X
	Octalink	-
	Square	-
Recommended BB	Threaded (normal)	-
	Threaded (E-type)	-
	Threaded (chain case)	-
	Pressfit	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	-
	Threaded (E-type)	-
	Threaded (chain case)	-
Threaded BB shell width	68mm	X
	73mm	X
	83mm	-
Chain case compatible		-
Crank arm	Material	Aluminum
	Finish	Anodized
Crank axle	Material	Steel
	Finish	Plated
Spider arm	Material	Aluminum
	Finish	Anodized
Spider arm cover	Material	-
	Finish	-
Outer ring	Material	Aluminum
	Finish	Anodized
Middle ring	Material	-
	Finish	-
Inner ring	Material	-
	Finish	-
Outer / middle ring fixing bolt	Material	Aluminum
	Finish	Anodized
Inner ring fixing bolt	Material	-
	Finish	-
Stainless chain guard fixing bolt		-
Crank fixing bolt included		-
Average weight (175mm, w/o BB)		-
Note		BMX racing 68mm BB shell width

SL

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

FC

CR

CD

BB

BB

CS

MF

FH

FH

HB

HB

WH

CI-DECK

Chainring

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-CRM91	SM-CRM81	SM-CRM70	SM-CR82	SM-CR80-A
Gears	Spec.	Single gear	Single gear	Single gear	Single gear	Single gear
	Combination	36, 34, 32, 30T	34, 32, 30T	34, 32, 30T	38, 36, 34T	46, 44, 43, 42, 41, 38, 34T
	Chain	HG-X11	HG-X11	HG-X11	HG-X 10-speed	1/2" x 3/32"
Note						

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	0-250mm
Back plate	Aluminum
Chainguide	Aluminum
Note	

Bottom Bracket (HOLLOWTECH II)

Series		XTR	XTR	SHIMANO	SHIMANO	SHIMANO	SAINT/ZEE
Model no.		SM-BB93	SM-BB94-41A	BB-MT800	BB-MT800-PA	SM-BB71-41A	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	-	X	X	-
	92	-	X	-	X	X	-
	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		73g	58g	82.1g	68.2g	71g	-
Note							

Series		SAINT/ZEE	SHIMANO	SHIMANO
Model no.		SM-BB71-41C	SM-BB52	BB-MT500-PA
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
	92	-	-	X
	104.5	X	-	-
	107	X	-	-
Small ball bearing		-	-	-
Adapter	Material	Resin	Aluminum	Resin
	Finish	-	Painted	-
Spacer	Material	Resin	Resin	Resin
	Finish	-	-	-
Average weight		73g	-	-
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 pipe	X	X	X	X	X	X	
	Octalink	X	X	X	X	X	X	
	Square type	-	-	-	-	-	-	
Axle length / shell width (mm)	107	68 (BC1.37)	-	-	-	-	-	
		70 (M36)	-	-	-	-	-	
		73 (BC1.37)	-	-	-	-	-	
	MM110	68 (BC1.37)	-	-	-	-	-	
		70 (M36)	-	-	-	-	-	
		73 (BC1.37)	-	-	-	-	-	
	LL113	68 (BC1.37)	-	-	-	-	-	
		70 (M36)	-	-	-	-	-	
		73 (BC1.37)	-	-	-	-	-	
	113	68 (BC1.37)	X	-	-	-	X	X
		70 (M36)	-	-	-	-	X	-
		73 (BC1.37)	X	-	-	-	X	-
	D-H	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
	YL117	68 (BC1.37)	-	-	-	-	-	
	117.5	68 (BC1.37)	-	-	-	-	-	
	118	68 (BC1.37)	X	-	-	-	X	X
		70 (M36)	-	-	-	-	X	-
		73 (BC1.37)	X	-	-	-	X	-
	XL118	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		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)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	D-EL 127	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	LL123	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	123SP	68 (BC1.37)	-	-	-	-	-	
	130	68 (BC1.37)	-	-	-	-	-	
	Spindle	Material	Steel	Steel	Steel	Steel	Steel	Steel
		Finish	Black coloring	Black coloring	Black coloring	Black coloring	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	Ni Chrome	Ni Chrome	Ni Chrome	Ni Chrome	Phosphate coating	Phosphate coating	
Note					For FC-M521 Only			

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 pipe	X	X	-	-	-	-	
	Octalink	X	X	-	-	-	-	
	Square type	-	-	X	X	X	X	
Axle length / shell width (mm)	107	68 (BC1.37)	-	-	X	-	-	
		70 (M36)	-	-	X	-	-	
		73 (BC1.37)	-	-	X	-	-	
	MM110	68 (BC1.37)	-	-	X	X*	X	X
		70 (M36)	-	-	X	X	-	-
		73 (BC1.37)	-	-	X	X	-	-
	LL113	68 (BC1.37)	-	-	X	X*	X	-
		70 (M36)	-	-	X	X	-	-
		73 (BC1.37)	-	-	X	X	X	-
	113	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	D-H	68 (BC1.37)	-	-	X	-	-	-
		70 (M36)	-	-	X	-	-	-
	YL117	68 (BC1.37)	-	-	-	X* (CL:47.5) X (CL:45)	X* (CL:47.5)	X* (CL:47.5)
	117.5	68 (BC1.37)	-	-	-	X	-	X
	118	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
	XL118	73 (BC1.37)	-	-	-	-	-	-
		68 (BC1.37)	-	-	X	-	-	-
	70 (M36)	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	Black coloring	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 coating	Phosphate coating	Ni Chrome	Phosphate coating	Phosphate coating	Phosphate coating	
Note		* with 0.7mm spacer	* with 1.8mm spacer version also available for FC-M521		*w/Fixing Bolts	*w/Fixing Bolts	*w/Fixing Bolts	

SL

SMSL

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BL

ST

ST

RD

FD

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WH

CI-DECK

Bottom Bracket

Series		SHIMANO	SHIMANO
Model no.		BB-UN100	BB-UN100-K
Structure	Standard	X	-
	E-type	-	-
	For chain case	-	X
Spindle	Hollow pipe	-	-
	Octalink	-	-
	Square type	X	X
Axle length / shell width (mm)	107	68 (BC1.37)	-
		70 (M36)	-
		73 (BC1.37)	-
	MM110	68 (BC1.37)	-
		70 (M36)	-
		73 (BC1.37)	-
	LL113	68 (BC1.37)	-
		70 (M36)	-
		73 (BC1.37)	-
	113	68 (BC1.37)	-
		70 (M36)	-
		73 (BC1.37)	-
	D-H	68 (BC1.37)	-
		70 (M36)	-
	YL117	68 (BC1.37)	-
	117.5	68 (BC1.37)	-
	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)	-
	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)	-	
Spindle	Material	Steel	Steel
	Finish	Lube	Lube
Left hand adapter	Material	Resin	Resin
	Finish	-	-
Right hand adapter / Shell	Material	Resin / Steel	Resin / Steel
	Finish	-	-
Note		*w/crank arm fixing Bolts spec available	*w/crank arm fixing Bolts spec available ** with 0.7mm spacer

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	Shot-Ni
Lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Plated	Plated
Average weight	330g	411g	434g	437g	450g	476g	
Note				NEW gear combination			

Series	XTR	XTR	DEORE XT	DEORE XT	DEORE XT	SHIMANO	
Model no.	CS-M980	CS-M980	CS-M771-10	CS-M771-10	CS-M771-10	CS-HG81-10	
Type	HG	HG	HG	HG	HG	HG	
Speeds	10-speed	10-speed	10-speed	10-speed	10-speed	10-speed	
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	
Combination name	11-34T	11-36T	11-32T	11-34T	11-36T	11-32T	
Group name	bj	bk	bL	bj	bk	bL	
Combination *Titanium gear **Aluminum gear	11th	-	-	-	-	-	
	10th	34*	36*	32	34	36	32
	9th	30*	32*	28	30	32	28
	8th	26*	28*	25	26	28	25
	7th	23*	24*	22	23	24	22
	6th	21*	21*	20	21	21	20
	5th	19	19	18	19	19	18
	4th	17	17	16	17	17	16
	3rd	15	15	14	15	15	14
2nd	13	13	12	13	13	12	
1st	11	11	11	11	11	11	
Carbon Spider arm	QTY (pcs)	-	-	-	-	-	
	Finish	-	-	-	-	-	
Aluminum Spider arm	QTY (pcs)	3	3	2	2	2	1
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Steel Spider arm	QTY (pcs)	-	-	-	-	-	
	Finish	-	-	-	-	-	
Titanium gear	Finish	Shot	Shot	Shot	Shot	Shot	
Steel gear	Finish	Shot-Ni	Shot-Ni	Shot-Cr	Shot-Cr	Shot-Cr	Shot-Cr/ Shot-Ni
Lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Cr plated
Average weight	255g	272g	294g	323g	343g	317g	
Note						Use CN-6701 with Road double FC	

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

Cassette Sprocket

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

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

Cassette Sprocket

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

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CS-HG41-8	CS-HG31-8	CS-HG31-8	CS-HG31-8	CS-HG200-8	CS-HG41-7
Type	HG	HG	HG	HG	HG	HG
Speeds	8-speed	8-speed	8-speed	8-speed	8-speed	7-speed
Compatible chain	IG/HG	IG/HG	IG/HG	IG/HG	HG 8-speed	IG/HG
Combination name	11-34T	11-30T	11-32T	11-34T	12-32T	11-28T
Group name	ao	an	aw	ao	br	ac
Combination *Titanium gear **Aluminum gear	11th	-	-	-	-	-
	10th	-	-	-	-	-
	9th	-	-	-	-	-
	8th	34	30	32	34	32
	7th	26	26	28	26	28
	6th	23	23	24	23	24
	5th	20	20	21	20	21
	4th	17	17	18	17	18
	3rd	15	15	15	15	16
2nd	13	13	13	13	14	
1st	11	11	11	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	Zinc Phosphate	Zinc Phosphate	Zinc Phosphate	Manganese phosphate
Lock ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Manganese phosphate	Manganese phosphate	Manganese phosphate	Manganese phosphate	Manganese phosphate
Average weight	-	-	-	-	-	-
Note						

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

Cassette Sprocket

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	DXR	
Model no.	CS-HG200-7	CS-HG200-7	CS-HG20-7	CS-HG20-7	CS-MX66	
Type	HG	HG	HG	HG	Single sprocket for FH-MX70	
Speeds	7-speed	7-speed	7-speed	7-speed	Single	
Compatible chain	IG/HG	IG/HG	IG/HG	IG/HG	1/2" x 3/32"	
Combination name	12-28T	12-32T	12-28T	12-32T	-	
Group name	bm	bp	bm	bp	-	
Combination *Titanium gear **Aluminum gear	11th	-	-	-	-	
	10th	-	-	-	-	
	9th	-	-	-	-	
	8th	-	-	-	-	
	7th	28	32	28	32	-
	6th	24	26	24	26	-
	5th	21	21	21	21	-
	4th	18	18	18	18	-
	3rd	16	16	16	16	-
2nd	14	14	14	14	-	
1st	12	12	12	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	Manganese phosphate	Manganese phosphate	Brown / Black	Brown / Black	Shot-Cr / Shot-Ni
Lock ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Manganese phosphate	Manganese phosphate	Zinc phosphate	Zinc phosphate	Chrome plated
Average weight	-	-	-	-	-	
Note					For BMX racing	

Multiple Freewheel

Series	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	
Model no.	MF-HG37	MF-TZ31-CP	MF-TZ31	MF-TZ21-CP	MF-TZ21	MF-TZ30-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	34
	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	Brown & Black	Brown	Brown & Black	Brown	
Compatible chain	HG/UG	HG/UG	HG/UG	HG/UG	HG/UG	HG/UG	
Note		With chain protector		With chain protector		With chain protector	

Multiple Freewheel

Series		TOURNEY	TOURNEY	TOURNEY
Model no.		MF-TZ30	MF-TZ20-CP	MF-TZ20
Type		HG/UG	HG/UG	HG/UG
Speeds		6-speed	6-speed	6-speed
Combination	7th	-	-	-
	6th	34	28	28
	5th	24	24	24
	4th	21	21	21
	3rd	18	18	18
	2nd	16	16	16
	1st	14	14	14
Group		-	-	-
Spider arm (Pcs)		-	-	-
Aluminum lock ring		-	-	-
Finish		Brown & Black	Brown	Brown & Black
Compatible chain		HG/UG	HG/UG	HG/UG
Note			With chain protector	

SL

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

FC

CR

CD

BB

BB

CS

MF

FH

FH

HB

HB

WH

CI-DECK

Freehub

Series		XTR	XTR	XTR	DXR	SAINT	SAINT	
Model no.		FH-M9000	FH-M9010	FH-M9010-B	FH-MX71	FH-M820	FH-M825	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Brake Type		Center Lock Disc	Center Lock Disc	Center Lock Disc	Rim	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	1	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	
O.L.D. (mm)		135	142	148	112	135	150	
Spoke hole	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	-	-	-	X	X	X	
Axle	Fixing method		QR	12mm E-Thru	12mm E-Thru	Nut	Thru	Thru
	QR skewer length (mm)	166	-	-	-	-	-	-
		168	X	-	-	-	-	-
		170	-	-	-	-	-	-
		173	X	-	-	-	-	-
	Length (mm)		146	142	148	-	-	-
	Diameter (mm)		16	16	16	-	-	-
	Thru Axle Length x Inner Diameter (mm)	135x10	-	-	-	-	X	-
		135x12	-	-	-	-	X	-
		142x12	-	X	-	-	-	-
148x12		-	-	X	-	-	-	
150x12		-	-	-	-	-	X	
Flange distance (mm)		57.4	57.4	63.4	57.4	57.4	72.4	
Offset (mm)		6.6	6.6	6.6	0	6.4	6.6	
P.C.D. Left/Right (mm)		44/45	44/45	44/45	45	44/45	44/45	
Flange diameter Left/Right (mm)		52.8/53.8	52.8/53.8	52.8/53.8	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	
Disc mount	External serration rotor lock ring	X (Aluminum)	X (Aluminum)	X (Aluminum)	-	-	-	
	Center lock mount cover option	-	-	-	-	X	X	
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	-	-	-	-	-	-	
Average weight* *w/o axle, QR nor locking		271g	268g	277g	448g (w/ fixing bolt)	347g (10) 333g (12)	348g	
Note					For BMX			

Freehub

Series		SAINT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX	
Model no.		FH-M828	FH-M8000	FH-M8010	FH-M8010-B	FH-M756	FH-M7000	
Color	1	Series color	Series color	Series color	Series color	Black	Series color	
	2	-	-	-	-	Silver	-	
Brake Type		Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc	6-bolt Disc	Center Lock Disc	
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)		142	135	142	148	135	135	
Spoke hole	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	X	-	-	-	X	-	
Axle	Fixing method		Thru	QR	12mm E-Thru	12mm E-Thru	QR	
	QR skewer length (mm)	166	-	-	-	-	-	
		168	-	X	-	-	X	
		170	-	-	-	-	-	
		173	-	X	-	-	X	
	Length (mm)		-	146	142	148	146	146
	Diameter (mm)		-	15	14	15	10	10
	Thru Axle Length x Inner Diameter (mm)	135x10	-	-	-	-	-	-
		135x12	-	-	-	-	-	-
		142x12	X	-	X	-	-	-
148x12		-	-	-	X	-	-	
150x12		-	-	-	-	-	-	
Flange distance (mm)		57.4	57.4	57.4	63.4	57.1	57.4	
Offset (mm)		6.4	6.6	6.4	6.4	6.8	6.6	
P.C.D. Left/Right (mm)		44/45	44/45	44/45	44/45	61	44/45	
Flange diameter Left/Right (mm)		52.8/ 53.8	52.8/53.8	52.8/53.8	52.8/53.8	70.6	52.8/53.8	
Quick engagement		X (36points/360°)	X (more than 36times/ 360degree)	X (more than 36times/ 360degree)	X (36times/ 360degree)	-	X (32times/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	X	-	-	-	-	-	
	Cup	Grinding	-	-	Grinding	-	-	
	Cone	CBN	CBN	CBN	CBN	CBN	CBN	
Disc mount	External serration rotor lock ring	-	X (Aluminum)	X (Aluminum)	-	-	-	
	Center lock mount cover option	X	-	-	-	X	-	
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	Aluminum	Aluminum	Aluminum	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	-	-	-	-	-	-	
Average weight* *w/o axle, QR nor locking		336g	328g	359g	367g	364g	384g	
Note						Spoke hole 24H spec available		

Freehub

Series		SLX	SLX	ZEE	ZEE	ZEE	DEORE	
Model no.		FH-M7010	FH-M7010-B	FH-M640	FH-M645	FH-M648	FH-M615	
Color	1	Series color	Series color	Series color	Series color	Series color	Black	
	2	-	-	-	-	-	Silver	
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	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	
O.L.D. (mm)		142	148	135	150	142	135	
Spoke hole	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	-	-	X	X	X	X	
Axle	Fixing method		12mm E-Thru	12mm E-Thru	Thru	Thru	Thru	QR
	QR skewer length (mm)	166	-	-	-	-	-	-
		168	-	-	-	-	-	X
		170	-	-	-	-	-	-
		173	-	-	-	-	-	X
	Length (mm)		142	148	-	-	-	146
	Diameter (mm)		15	15	-	-	-	10
	Thru Axle Length x Inner Diameter (mm)	135x10	-	-	X	-	-	-
		135x12	-	-	X	-	-	-
		142x12	X	-	-	-	X	-
148x12		-	X	-	-	-	-	
150x12		-	-	-	X	-	-	
Flange distance (mm)		56.3	62.3	57.4	72.4	57.4	57.4	
Offset (mm)		6.6	6.6	6.4	6.4	6.4	6.6	
P.C.D. Left/Right (mm)		44/45	44/45	44/45	44/45	44/45	45	
Flange diameter Left/Right (mm)		64/70	64/70	52.8/ 53.8	52.8/ 53.8	52.8/ 53.8	53.8	
Quick engagement		X (36times/ 360degree)	X (36times/ 360degree)	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	-	
	Cup	-	-	-	-	-	-	
	Cone	CBN	CBN	CBN	CBN	CBN	CBN	
Disc mount	External serration rotor lock ring	-	-	-	-	-	-	
	Center lock mount cover option	-	-	X	X	X	X	
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	-	-	-	-	-	-	
Average weight* *w/o axle, QR nor locking		357g	360g	375g (10) 350g (12)	363g	357g	372g	
Note								

Freehub

Series		DEORE	DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		FH-M618	FH-M618-B	FH-M525A	FH-M475	FH-M4050	FH-M3050	
Color	1	Black	Black	Black	Black	Black	Black	
	2	-	-	Silver	Silver	Silver	-	
Brake Type		Center Lock Disc	Center Lock Disc	6-bolt Disc	6-bolt Disc	Center Lock Disc	Center lock	
Speeds		8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	8-10 speed	8/9 speed	8/9 speed	
O.L.D. (mm)		142	148	135	135	135	135	
Spoke hole	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	-	-	X	X	X	X	
Axle	Fixing method		12mm E-Thru	12mm E-Thru	QR	QR	QR	
	QR skewer length (mm)	166	-	-	-	X	-	X
		168	-	-	X	-	X	-
		170	-	-	-	X	-	X
		173	-	-	X	X	X	-
	Length (mm)		-	148	146	146	146	146
	Diameter (mm)		-	15	10	10	10	10
	Thru Axle Length x Inner Diameter (mm)	135x10	-	-	-	-	-	-
		135x12	-	-	-	-	-	-
		142x12	X	-	-	-	-	-
148x12		-	X	-	-	-	-	
150x12	-	-	-	-	-	-		
Flange distance (mm)		57.4	63.4	57.1	57.1	57.4	57.4	
Offset (mm)		6.4	6.4	6.8	6.8	6.6	6.6	
P.C.D. Left/Right (mm)		44/45	44/45	61	61	45 / 45	45 / 45	
Flange diameter Left/Right (mm)		52.8/ 53.8	52.8/53.8	70.6	70.6	53.8	53.8	
Quick engagement		X (36points/360°)	X (36times/360degree)	-	-	-	-	
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact	
	Freehub body	Contact	Contact	Contact	-	Contact	-	
Internal grease sleeve		X	-	-	-	X	-	
Bearing	Stainless ball	-	-	-	-	-	-	
	Cup	-	-	-	-	-	-	
	Cone	CBN	CBN	CBN	-	CBN	-	
Disc mount	External serration rotor lock ring	-	-	-	-	-	-	
	Center lock mount cover option	X	-	-	-	-	-	
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	Aluminum	Steel	Steel	Steel	Steel	
	Finish	-	Anodized	-	-	-	-	
QR lever	Material	-	-	Aluminum	Steel	Aluminum	Steel	
	Finish	-	-	Anodized	Plated	Barrel	Plated	
	Color	-	-	Black	Black	Black	Black	
QR housing	Material	-	-	Aluminum	Steel	Steel	Steel	
	Finish	-	-	Anodized	Plated	Plated	Plated	
QR nut	Material	-	-	Resin & Steel	Steel + Resin	Steel + Resin	Steel + Resin	
	Finish	-	-	-	-	-	-	
Average weight* *w/o axle, QR nor locking		357g	360g	-	-	-	-	
Note								

Freehub

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		FH-RM35	FH-TX800-QR	FH-TX800-NT	FH-TX505-8	FH-RM30-7-QR	FH-RM30-7-NT	
Color	1	Black	Black	Black	Black	Black	Black	
	2	-	Silver	Silver	-	Silver	Silver	
Brake Type		Center Lock Disc	Rim	Rim	Center Lock Disc	Rim	Rim	
Speeds		8/9 speed	8/9 speed	8/9 speed	8/9 speed	7-speed	7-speed	
O.L.D. (mm)		135	135	135	135	130/135	135	
Spoke hole	28H	X*	-	-	-	-	-	
	32H	X	X	X	X	-	-	
	36H	X	X	X	X	X	X	
Axle	Fixing method		QR	QR	Nut	QR	QR	Nut
	QR skewer length (mm)	166	X	X	-	X	X	-
		168	-	-	-	-	-	-
		170	X	X	-	X	X	-
		173	-	-	-	-	-	-
	Length (mm)		146	146	185	146	141/146	185
	Diameter (mm)		10	10	10	10	10	10
	Thru Axle Length x Inner Diameter (mm)	135x10	-	-	-	-	-	-
		135x12	-	-	-	-	-	-
		142x12	-	-	-	-	-	-
148x12		-	-	-	-	-	-	
150x12		-	-	-	-	-	-	
Flange distance (mm)		57.4	59.2	59.2	57.4	59.2	59.2	
Offset (mm)		6.6	7.7	7.5	6.6	135:5.5	135:5.5	
P.C.D. Left/Right (mm)		45 / 45	45 / 45	45 / 45	45 / 45	45 / 45	45 / 45	
Flange diameter Left/Right (mm)		53.8	53.8	53.8	53.8	53.8	53.8	
Quick engagement		-	-	-	-	-	-	
Seal	Hub	-	-	-	-	-	-	
	Freehub body	-	-	-	-	-	-	
Internal grease sleeve		-	-	-	-	-	-	
Bearing	Stainless ball	-	-	-	-	-	-	
	Cup	-	-	-	-	-	-	
	Cone	-	-	-	-	-	-	
Disc mount	External serration rotor lock ring	-	-	-	-	-	-	
	Center lock mount cover option	X	-	-	X (depending on request)	-	-	
Freehub body	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum/2pcs	Aluminum/2pcs	
	Finish	Painted	Painted (Black) Shiny (Silver)	Painted (Black) Shiny (Silver)	Painted	Painted (Black) Shiny (Silver)	Painted (Black) Shiny (Silver)	
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	-	
QR lever	Material	Steel	Steel	-	Steel	Steel	-	
	Finish	Plated	Plated	-	Plated	Plated	-	
	Color	Black	Black (Black color spec) Silver (Silver color spec)	-	Black	Silver	-	
QR housing	Material	Steel	Steel	-	Steel	Steel	-	
	Finish	Plated	Plated	-	Plated	Plated	-	
QR nut	Material	Steel + Resin	Steel + Resin	-	Steel + Resin	Steel + Resin	-	
	Finish	-	-	-	-	-	-	
Average weight* *w/o axle, QR nor locking		-	-	-	-	-	-	
Note		* 166mm QR spec						

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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CI-DECK

Front Hub

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	Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc	
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	-	
Axle	Fixing method		15mm E-Thru	15mm E-Thru	20mm Thru	QR	15mm E-Thru	15mm E-Thru
	QR skewer length (mm)	129	-	-	-	-	-	-
		133	-	-	-	-	-	-
	Length (mm)		100	110	110	108	100	110
	Diameter (mm)		17.5	17.5	20	14	17.5	17.5
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-	-
		100x15	X	-	-	-	X	-
		110x15	-	X	-	-	-	X
110x20		-	-	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	
Disc mount	External serration rotor lock ring	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)	
	Center lock mount cover option	-	-	-	-	-	-	
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	-	-	
QR housing	Material	-	-	-	Aluminum	-	-	
	Finish	-	-	-	Anodized	-	-	
QR nut	Material	-	-	-	Resin & Steel	-	-	
	Finish	-	-	-	-	-	-	
Average weight		136g	155g	216g	164g	148g	158g	
Note				Axle is supplied with front fork		Axle is supplied with front fork		

Front Hub

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	Rim	Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc	
O.L.D. (mm)		100	100	100	100	110	110	
Spoke hole	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	X	X	-	-	-	X	
Axle	Fixing method		QR	Nut	QR	15mm E-Thru	15mm E-Thru	20mm Thru
	QR skewer length (mm)	129	-	-	-	-	-	-
		133	X	-	X	-	-	-
	Length (mm)		108	-	108	100	110	110
	Diameter (mm)		10	-	14	17.5	17.5	20
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-	-
		100x15	-	-	-	X	-	-
		110x15	-	-	-	-	X	-
110x20		-	-	-	-	-	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	CBN	
Disc mount	External serration rotor lock ring	-	-	-	X (Aluminum)	X (Aluminum)	X (Aluminum)	
	Center lock mount cover option	-	-	-	-	-	-	
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	-	-	-	
QR housing	Material	Aluminum	-	Aluminum	-	-	-	
	Finish	Anodized	-	Anodized	-	-	-	
QR nut	Material	Resin & Steel	-	Resin & Steel	-	-	-	
	Finish	-	-	-	-	-	-	
Average weight		239g	263g	189g	148g	158g	228g	
Note		Spoke hole 24H spec available	For BMX racing				Axle is supplied with front fork	

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CI-DECK

Front Hub

Series		DEORE	DEORE	DEORE	SHIMANO	SHIMANO	SHIMANO	
Model no.		HB-M615	HB-M618	HB-M618-B	HB-M525A	HB-M475	HB-M4050	
Color	1	Black	Black	Black	Black	Black	Black	
	2	Silver	-	-	Silver	Silver	Silver	
Brake Type		Center Lock Disc	Center Lock Disc	Center Lock Disc	6-bolt Disc	6-bolt Disc	Center Lock Disc	
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	
Axle	Fixing method		QR	15mm E-thru	15mm E-Thru	QR	QR	QR
	QR skewer length (mm)	129	-	-	-	-	-	-
		133	X	-	-	X	X	X
	Length (mm)		108	100	110	108	108	108
	Diameter (mm)		10	15	17.5	10	10	10
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-	-
		100x15	-	X	-	-	-	-
110x15		-	-	X	-	-	-	
110x20		-	-	-	-	-	-	
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	-	-	
Disc mount	External serration rotor lock ring	-	X (Steel)	X (Steel)	-	-	-	
	Center lock mount cover option	X	-	-	-	-	-	
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	
QR housing	Material	Aluminum	-	-	Aluminum	Steel	Steel	
	Finish	Anodized	-	-	Anodized	Plated	Plated	
QR nut	Material	Resin & Steel	-	-	Resin & Steel	Resin & Steel	Resin & Steel	
	Finish	-	-	-	-	-	-	
Average weight		-	-	-	-	-	-	
Note			Axle is supplied with front fork					

Front Hub

Series		SHIMANO	SHIMANO	TOURNEY TX	TOURNEY TX	SHIMANO	
Model no.		HB-M3050	HB-RM35	HB-TX800-QR	HB-TX800-NT	HB-TX505	
Color	1	Black	Black	Black	Black	Black	
	2	-	-	Silver	Silver	-	
Brake Type		Center Lock Disc	Center Lock Disc	Rim	Rim	Center Lock Disc	
O.L.D. (mm)		100	100	100	100	100	
Spoke hole	28H	-	-	-	-	-	
	32H	X	X	X	X	X	
	36H	X	X	X	X	X	
Axle	Fixing method		QR	QR	QR	Nut	QR
	QR skewer length (mm)	129	-	-	X	-	-
		133	X	X	X	-	X
	Length (mm)		108	108	108	140	108
	Diameter (mm)		10	10	9	9	10
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-
		100x15	-	-	-	-	-
		110x15	-	-	-	-	-
110x20		-	-	-	-	-	
Flange distance (mm)		60.2	60.2	71.6	71.6	60.2	
Offset (mm)		5.5	5.5	0	0	5.5	
P.C.D. Left / Right (mm)		44 / 44	44/44	38/38	38/38	44/44	
Flange diameter (mm)		52.8	52.8	46	46	52.8	
Seal		Contact	-	-	-	-	
Internal grease sleeve		-	-	-	-	-	
Bearing	Stainless ball		-	-	-	-	
	Cup		-	-	-	-	
	Cone		-	-	-	-	
Disc mount	External serration rotor lock ring		-	-	-	-	
	Center lock mount cover option		-	X	-	-	X (depending on request)
Hub shell	Material		Aluminum	Aluminum	Aluminum	Aluminum	
	Finish		Anodized	Painted	Painted (Black) Shiny (Silver)	Painted (Black) Shiny (Silver)	Painted
Axle	Material		Steel	Steel	Steel	Steel	
	Finish		-	-	-	-	-
QR lever	Material		Steel	Steel	Steel	-	Steel
	Finish		Plated	Plated	Plated	-	Plated
QR housing	Material		Steel	Steel	Steel	-	Steel
	Finish		Plated	Plated	Plated	-	Plated
QR nut	Material		Resin & Steel	Resin & Steel	Resin & Steel	-	Resin & Steel
	Finish		-	-	-	-	-
Average weight		-	-	-	-	-	
Note							

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CI-DECK

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	26-28inch	X	X
	20-28inch	-	-
	16-28inch	-	-
	24-28inch	-	-
	20-24inch	X	-
	16-20inch	-	-
	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			

Wheel

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")
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
	QR skewer length (mm)	133	-	-	-	-	-
		168	-	-	X	-	-
		173	-	-	X	-	-
	Length (mm)	100	142	146	100	142	146
	Diameter (mm)	17.5	16	16	17.5	15	15
	Thru Axle Length x Inner Diameter (mm)	100x15	X	-	-	X	-
142x12		-	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
Disc mount	External serration rotor lock ring	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)
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	-	-	-	-	-	-
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)		606g	739g	742g	761g	894g	894g
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

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")	
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	29x2.10-2.35	29x2.00-2.35	27.5x2.10-2.40	
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	
Spokes	Requires rim tape	X**	X**	X**	X**	X**	X**	
	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	
Axle	Bladed	-	-	-	-	-	-	
	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	-	-	-
	Length (mm)		100	142	146	100	142	100
Diameter (mm)		17.5	15	15	17.5	15	17.5	
Thru Axle Length x Inner Diameter (mm)	100x15	X	-	-	X	-	X	
	142x12	-	X	-	-	X	-	
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	
Disc mount	External serration rotor lock ring	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)	
	Material	Carbon/Aluminum	CFRP/Aluminum	CFRP/Aluminum	Carbon/Aluminum	CFRP/Aluminum	Carbon/Aluminum	
Rim	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
Spoke	Finish	Black	Black	Black	Black	Black	Black	
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
Nipple	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
	Material	-	Titanium	Titanium	-	Titanium	-	
Freehub body	Finish	-	-	-	-	-	-	
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
Hub shell	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
Axle	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
	Material	-	-	Aluminum	-	-	-	
QR lever	Finish	-	-	Anodized	-	-	-	
	Color	-	-	Series color	-	-	-	
	Material	-	-	Aluminum	-	-	-	
QR housing	Finish	-	-	Anodized	-	-	-	
	Material	-	-	Resin & Steel	-	-	-	
QR nut	Finish	-	-	-	-	-	-	
	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)		724g	857g	857g	777g	910g	750g	
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 260kPa ** Exclusive rim tape ***CP is available only for MTB 11-speed	* Max pressure 260kPa ** Exclusive rim tape	

Wheel

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-R-29	WH-M8000-TL-R12-29	WH-M8000-TL-F-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		MTB 11-speed***	-	-	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	-	
O.L.D. (mm)		142	100	100	135	142	100	
Wheel Size		584x24C (650B=27.5")	622x20C (29")	622x20C (29")	622x20C (29")	622x20C (29")	584x20C (650B=27.5")	
Tire	Type	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	UST / Clincher *	
	Recommended size	29x2.00-2.35	29x1.90-2.25	29x1.90-2.25	29x1.90-2.25	29x1.90-2.25	27.5x1.90-2.25	
Rim	Height (mm)	18.8	18.8	18.8	18.8	18.8	18.8	
	Width (mm)	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	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	
	Bladed	-	-	-	-	-	-	
Axle	Fixing method		12mm E-Thru	QR	15mm E-Thru	QR	12mm E-Thru	QR
	QR skewer length (mm)	133	-	X	-	-	-	X
		168	-	-	-	X	-	-
		173	-	-	-	X	-	-
	Length (mm)		142	108	100	146	142	108
	Diameter (mm)		15	17.5	17.5	16	16	17.5
	Thru Axle Length x Inner Diameter (mm)	100x15	-	-	X	-	-	-
142x12		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	-	
Internal grease sleeve		X	X	X	X	X	X	
Disc mount	External serration rotor lock ring	X (Aluminum)	-	X (Aluminum)	-	-	-	
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	-	Aluminum	
	Finish	-	Anodized	-	Anodized	-	Anodized	
	Color	-	Series color	-	Series color	-	Series color	
QR housing	Material	-	Aluminum	-	Aluminum	-	Aluminum	
	Finish	-	Anodized	-	Anodized	-	Anodized	
QR nut	Material	-	Resin & Steel	-	Resin & Steel	-	Resin & Steel	
	Finish	-	-	-	-	-	-	
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)		880g	839g	796g	1017g	1041g	809g	
Note		* Max pressure 260kPa ** 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

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		WH-M8000-TL-F15-275	WH-M8000-TL-R-275	WH-M8000-TL-R12-275	WH-M8020-TL-F15-29	WH-M8020-TL-R12-29	WH-M8020-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		-	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	-	8-10 speed MTB 11-speed	-
O.L.D. (mm)		100	135	142	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")
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	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0
	Bladed	-	-	-	-	-	-
Axle	Fixing method		15mm E-Thru	QR	12mm E-Thru	15mm E-Thru	12mm E-Thru
	QR skewer length (mm)	133	-	-	-	-	-
		168	-	X	-	-	-
		173	-	X	-	-	-
	Length (mm)		100	146	142	100	142
	Diameter (mm)		17.5	16	16	17.5	16
	Thru Axle Length x Inner Diameter (mm)	100x15	X	-	-	X	-
142x12		-	-	X	-	X	
Quick engagement		-	X (36points/360°)	X (36points/360°)	-	X (36points/360°)	-
Bearing	Stainless ball	X	-	-	X	-	X
	Cup	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
Disc mount	External serration rotor lock ring	X (Aluminum)	-	-	X (Aluminum)	-	X (Aluminum)
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rim	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Spoke	Finish	Black	Black	Black	Black	Black	Black
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Nipple	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Freehub body	Finish	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Axle	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	-	Aluminum	-	-	-	-
QR lever	Finish	-	Anodized	-	-	-	-
	Color	-	Series color	-	-	-	-
	Material	-	Aluminum	-	-	-	-
QR housing	Finish	-	Anodized	-	-	-	-
	Material	-	Resin & Steel	-	-	-	-
QR nut	Finish	-	-	-	-	-	-
	Material	-	-	-	-	-	-
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)		766g	986g	1010g	836g	1081g	802g
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

Series		DEORE XT	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		WH-M8020-TL-R12-275	WH-MT66-F15-29	WH-MT66-F-29	WH-MT66-R12-29	WH-MT66-R-29	WH-MT35-F	
Color	1	Series color	Black	Black	Black	Black	Black	
	2	-	White	White	White	White	White	
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)		142	100	100	142	135	100	
Wheel Size		584x24C (650B=27.5")	622x19C (29")	622x19C (29")	622x19C (29")	622x19C (29")	559x19C (26")	
Tire	Type	UST / Clincher *	UST/clincher	UST/clincher	UST/clincher	UST/clincher	clincher	
	Recommended size	27.5x2.00-2.40	29x1.50-2.25	29x1.50-2.25	29x1.50-2.25	29x1.50-2.25	26x1.50-2.25	
Rim	Height (mm)	18.8	19	19	19	19	19	
	Width (mm)	27.9	24.6	24.6	24.6	24.6	24.6	
	Rim joint	Welding	Welding	Welding	Welding	Welding	Welding	
	Brazed reinforcement	-	-	-	-	-	-	
	Offset rim	X	-	-	-	-	-	
	Requires rim tape	X**	X**	X**	X**	X**	X (20-559)	
Spokes	Number	28	24	24	28	28	24	
	Straight pull	X	X	X	X	X	-	
	J-bend	-	-	-	-	-	X	
	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	
	Bladed	-	-	-	-	-	X	
Axle	Fixing method		12mm E-Thru	15mm E-Thru	QR	12mm E-Thru	QR	
	QR skewer length (mm)	133	-	-	X	-	X	
		168	-	-	-	X	-	
		173	-	-	-	X	-	
	Length (mm)		142	100	108	142	146	108
	Diameter (mm)		16	-	14	14	14	10
	Thru Axle Length x Inner Diameter (mm)	100x15	-	X	-	-	-	-
142x12		X	-	-	X	-	-	
Quick engagement		X (36points/360°)	-	-	X (36points/360°)	X (32points/360°)	-	
Bearing	Stainless ball		-	-	-	-	-	
	Cup		-	-	-	-	-	
	Cone		CBN	CBN	CBN	CBN	CBN	
Seal	Hub		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	
	Freehub body		-	-	-	Contact	Contact	-
Internal grease sleeve		X	X	X	X	X	-	
Disc mount	External serration rotor lock ring		-	X (Aluminum)	-	-	-	
	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
Rim	Finish		Anodized	Anodized	Anodized	Anodized	Anodized(Black rim)/ Painted(White rim)	
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
Spoke	Finish		Black	Black	Black	Black	Black	
	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
Nipple	Finish		Anodized	Black	Black	Black	Black	
	Material		Steel	-	-	Steel	Steel	
Freehub body	Finish		-	-	-	-	-	
	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
Hub shell	Finish		Anodized	Anodized	Anodized	Anodized	Anodized	
	Material		Aluminum	Aluminum	Steel	Steel	Steel	
Axle	Finish		Anodized	Anodized	-	-	-	
	Material		-	-	Aluminum	-	Aluminum	
QR lever	Finish		-	-	Anodized	-	Anodized	
	Color		-	-	Black	-	Black	
	Material		-	-	Aluminum	-	Aluminum	
QR housing	Finish		-	-	Anodized	-	Anodized	
	Material		-	-	Resin & Steel	-	Resin & Steel	
QR nut	Finish		-	-	-	-	-	
	Material		-	-	-	-	-	
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	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	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	RR317-WUA SW	
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)		1046g	882g	896g	1101g	1115g	839g	
Note		* Max pressure 300kPa ** Exclusive rim tape	** Exclusive rim tape	** Exclusive rim tape	** Exclusive rim tape ***CP is available only for 9 & 10-speed	** Exclusive rim tape ***CP is available only for 9 & 10-speed		

Wheel

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-MT35-F15	WH-MT35-R	WH-MT35-F-275	WH-MT35-F15-275	WH-MT35-R-275	WH-MT35-F-29
Color	1	Black	Black	Black	Black	Black	Black
	2	White	White	White	White	White	White
Front / Rear		Front	Rear	Front	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***	-
O.L.D. (mm)		100	135	100	100	135	100
Wheel Size		559x19C (26")	559x19C (26")	584x19C (650B=27.5")	584x19C (650B=27.5")	584x19C (650B=27.5")	622x19C (29")
Tire	Type	clincher	clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size	26x1.50-2.25	26x1.50-2.25	27.5x1.50-2.25	27.5x1.50-2.25	27.5x1.50-2.25	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 (20-559)	X (20-559)	X (20-584)	X (20-584)	X (20-584)	X (20-622)
Spokes	Number	24	28	24	24	28	24
	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		15mm E-Thru	QR	QR	15mm E-Thru	QR
	QR skewer length (mm)	133	-	-	X	-	X
		168	-	X	-	-	X
		173	-	X	-	-	X
	Length (mm)		100	146	108	100	146
	Diameter (mm)		-	10	10	-	10
	Thru Axle Length x Inner Diameter (mm)	100x15	X	-	-	X	-
142x12		-	-	-	-	-	
Quick engagement		-	-	-	-	-	
Bearing	Stainless ball		-	-	-	-	
	Cup		-	-	-	-	
	Cone		CBN	CBN	CBN	CBN	CBN
Seal	Hub		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	
	Freehub body		-	Contact	-	Contact	Contact
Internal grease sleeve		X	X	-	X	X	
Disc mount	External serration rotor lock ring	X (Steel)	-	-	X (Steel)	-	
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)	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	Black	Black	
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Black	Black	Black	Black	Black	
Freehub body	Material	-	Steel	-	-	Steel	
	Finish	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Aluminum	Steel	Steel	Aluminum	Steel	
	Finish	Anodized	-	-	Anodized	-	
QR lever	Material	-	Aluminum	Aluminum	-	Aluminum	
	Finish	-	Anodized	Anodized	-	Anodized	
	Color	-	Black	Black	-	Black	
QR housing	Material	-	Steel	Steel	-	Steel	
	Finish	-	Painted	Painted	-	Painted	
QR nut	Material	-	Resin & Steel	Resin & Steel	-	Resin & Steel	
	Finish	-	-	-	-	-	
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)		834g	1076g	874g	889g	1091g	908g
Note			***CP is available only for 9 & 10-speed			***CP is available only for 9 & 10-speed	

Wheel

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		WH-MT35-F15-29	WH-MT35-R-29	WH-MT15-A-F-29	WH-MT15-A-F15-29	WH-MT15-A-R-29	WH-MT15-A-F-275	
Color	1	Black	Black	Black	Black	Black	Black	
	2	White	White	White	White	White	White	
Front / Rear		Front	Rear	Front	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***	-	
O.L.D. (mm)		100	135	100	100	135	100	
Wheel Size		-	622x19C (29")	622x19C (29")	622x19C (29")	622x19C (29")	584x19C (650B=27.5")	
Tire	Type	-	Clincher	Clincher	Clincher	Clincher	Clincher	
	Recommended size	29x1.50-2.25	29x1.50-2.25	29x1.50-2.25	29x1.50-2.25	29x1.50-2.25	27.5x1.90-2.25	
Rim	Height (mm)	19	19	21	21	21	21	
	Width (mm)	24.6	24.6	24.6	24.6	24.6	24.6	
	Rim joint	Welding	Welding	Sleeve	Sleeve	Sleeve	Sleeve	
	Brazed reinforcement	-	-	-	-	-	-	
	Offset rim	-	-	-	-	-	-	
	Requires rim tape	X (20-622)	X (20-622)	X (20-622)	X (20-622)	X (20-622)	X (20-584)	
Spokes	Number	24	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		15mm E-Thru	QR	QR	15mm E-Thru	QR	
	QR skewer length (mm)	133	-	-	X	-	X	
		168	-	X	-	-	X	
		173	-	X	-	-	X	
	Length (mm)		100	146	108	100	146	108
	Diameter (mm)		-	10	10	-	10	10
	Thru Axle Length x Inner Diameter (mm)	100x15	X	-	-	X	-	-
142x12		-	-	-	-	-	-	
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	
	Freehub body		-	Contact	-	-	Contact	-
Internal grease sleeve		X	X	-	X	X	-	
Disc mount	External serration rotor lock ring		X (Steel)	-	-	X (Steel)	-	
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		Aluminum	Aluminum	Brass	Brass	Brass	
	Finish		Black	Black	Silver	Silver	Silver	
Freehub body	Material		-	Steel	-	-	Steel	
	Finish		-	-	-	-	-	
Hub shell	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish		Anodized	Anodized	Painted	Painted	Painted	Painted
Axle	Material		Aluminum	Steel	Steel	Aluminum	Steel	
	Finish		Anodized	-	-	Anodized	-	
QR lever	Material		-	Aluminum	Aluminum	-	Aluminum	
	Finish		-	Anodized	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		-	-	-	-	-	
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)		902g	1148g	1036g	1031g	1246g	1002g/Black 1007g/White	
Note			***CP is available only for 9 & 10-speed			***CP is available only for 9 & 10-speed		

Wheel

Series		SHIMANO	SHIMANO	
Model no.		WH-MT15-A-F15-275	WH-MT15-A-R-275	
Color	1	Black	Black	
	2	White	White	
Front / Rear		Front	Rear	
Brake Type		Center Lock Disc	Center Lock Disc	
Speeds		-	8-10 speed MTB 11-speed***	
O.L.D. (mm)		100	135	
Wheel Size		584x19C (650B=27.5")	584x19C (650B=27.5")	
Tire	Type	Clincher	Clincher	
	Recommended size	27.5x1.90-2.25	27.5x1.90-2.25	
Rim	Height (mm)	21	21	
	Width (mm)	24.6	24.6	
	Rim joint	Sleeve	Sleeve	
	Brazed reinforcement	-	-	
	Offset rim	-	-	
	Requires rim tape	X (20-584)	X (20-584)	
Spokes	Number	28	28	
	Straight pull	-	-	
	J-bend	X	X	
	Butted	2.0	2.0	
	Bladed	X	X	
Axle	Fixing method		15mm E-Thru	QR
	QR skewer length (mm)	133	-	-
		168	-	X
		173	-	X
	Length (mm)		100	146
	Diameter (mm)		-	10
	Thru Axle Length x Inner Diameter (mm)	100x15	X	-
142x12		-	-	
Quick engagement		-	-	
Bearing	Stainless ball		-	-
	Cup		-	-
	Cone		CBN	CBN
Seal	Hub		Labyrinth & Contact	Labyrinth & Contact
	Freehub body		-	Contact
Internal grease sleeve		X	X	
Disc mount	External serration rotor lock ring	X (Steel)	-	
Rim	Material	Aluminum	Aluminum	
	Finish	Anodized(Black rim)/ Painted(White rim)	Anodized(Black rim)/ Painted(White rim)	
Spoke	Material	Stainless steel	Stainless steel	
	Finish	Black	Black	
Nipple	Material	Brass	Brass	
	Finish	Silver	Silver	
Freehub body	Material	-	Steel	
	Finish	-	-	
Hub shell	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Axle	Material	Aluminum	Steel	
	Finish	Anodized	-	
QR lever	Material	-	Aluminum	
	Finish	-	Painted	
	Color	-	Black	
QR housing	Material	-	Steel	
	Finish	-	Painted	
QR nut	Material	-	Resin & Steel	
	Finish	-	-	
Reflector	JIS/CPSC	RR-550-WUW SW	RR-550-WUW SW	
	AS	RR-550-WUA SW	RR-550-WUA SW	
	DIN	RR317-WUA SW	RR317-WUA SW	
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)		995g/Black 1000g/White	1204g/Black 1209g/White	
Note			***CP is available only for 9 & 10-speed	

CI-DECK

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		ID-TX51-7R	ID-TX51-6R	ID-TX51-LN	ID-TX51-LC	SM-TX20-A	SM-TX21
Compatible shift lever		SL-RS35/36/45/47	SL-RS35/36/45/47	SL-RS35/36/45/47	-	-	-
Front speeds		-	-	Friction	-	-	-
Rear speeds		7	6	-	-	-	-
SL compatible RD type		Top normal	Top normal	-	-	-	-
CID cable		Stainless steel	Stainless steel	Stainless steel	-	-	-
CID cable type		TX50	TX50	TX50	-	-	-
Optical Gear Display	Front	-	-	Friction	-	-	-
	Rear	7-speed	6-speed	-	-	-	-
Clamp band diameter (mm)	22.2	-	-	-	-	-	-
	25	-	-	-	-	-	-
	22.2 / 25.0	-	-	-	-	X	-
C.I.D upper cover	Material	Resin	Resin	Resin	Resin	-	-
	Color	Painted	Painted	Painted	Painted	-	-
C.I.D body	Material	Resin	Resin	Resin	Resin	-	-
	Color	Painted	Painted	Painted	-	-	-
Clamp band	Material	Resin	Resin	Resin	-	Resin	-
	Color	Painted	Painted	Painted	-	-	-
Note		Use with SM-TX20-A/ TX35-A	Use with SM-TX20-A/ TX35-A	Use with SM-TX20-A/ TX35-A	dummy cover	Bracket for ID-TX51/SM-TX37	Cowling Use with SM-TX20-A

Series		TOURNEY	TOURNEY	TOURNEY
Model no.		SM-TX35-A	SM-TX36	SM-TX37
Compatible shift lever		-	-	-
Front speeds		-	-	-
Rear speeds		-	-	-
SL compatible RD type		-	-	-
CID cable		-	-	-
CID cable type		-	-	-
Optical Gear Display	Front	-	-	-
	Rear	-	-	-
Clamp band diameter (mm)	22.2	-	-	-
	25	-	-	-
	22.2 / 25.0	X	-	-
C.I.D upper cover	Material	-	-	-
	Color	-	-	-
C.I.D body	Material	-	-	-
	Color	-	-	-
Clamp band	Material	Resin	-	-
	Color	-	-	-
Note		Bracket for ID-TX51/ SC-TX35/SM-TX37	Cowling Use with SM-TX35-A	Analog compass Use with SM-TX20-A/ TX35-A

TREKKING

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Crankset	110	FC
Freehub	112	FH
Front Hub	113	HB

Shift Lever

Series		DEORE XT	DEORE XT	DEORE LX	DEORE LX	DEORE	DEORE
Model no.		SL-T8000-L	SL-T8000-R	SL-T670-L	SL-T670-R	SL-T610-L	SL-T610-R
Color	1	Series color	Series color	Black	Black	Black	Black
	2	-	-	Silver	Silver	Silver	Silver
Shifter type		RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus
Front speeds		3	-	3	-	3	-
Rear speeds		-	10	-	10	-	10
Compatible RD Type		-	MTB 10-speed RD	-	MTB 10-speed RD	-	MTB 10-speed RD
I-spec compatible		-	-	-	-	-	-
I-spec II compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL rotation adjust		-	-	-	-	-	-
SL 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	-	-	-	-
	2-Way 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	-	-	-	-
SL 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	-	-	-	-
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK	-	-	-	-
Recommended SL outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (pc)		120g	126g	260g/pair	260g/pair	-	-
Note							

Brake Lever (Hydraulic disc brake)

Series		DEORE XT	DEORE LX	DEORE	SHIMANO
Model no.		BL-T8000	BL-T675-B	BL-T615	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	Black	Black
	2	-	Silver	Silver	Silver
	3	-	-	-	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	White
Recommended brake caliper		BR-M8000	BR-T675	BR-T615	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		-	-	-	-
Servo wave mechanism		-	-	-	-
Clamp band	Open clamp	X	X	X	-
	I-spec	X*	X*	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 800mm, w/160mm recommend RT, w/lock ring, w/o adapter, w/2bolts, w/ Resin pad)		108g**	126g**	-	-
Note		*I-spec II ** single item weight	*I-spec B-type ** single item weight	*I-spec B-type	

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)	-	-	-	-	-	-
	CANTI brake	-	-	-	-	-	-
Recommended power modulator	Roller brake	-	-	-	-	-	-
	V-BRAKE	SM-PM70	SM-PM70	-	SM-PM70	-	SM-PM40
Clamp band	Mechanical disc brake (MTB)	SM-PM50	SM-PM50	-	SM-PM50	-	SM-PM50
	Open clamp band	X	X	X	X	-	-
	I-spec compatible	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 action		-	-	-	-	-	-
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)		196.6g	211.2g	-	-	-	-
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

FH

HB

Shift/Brake Lever

Series		ALIVIO	ALIVIO	ACERA	ACERA	
Model no.		ST-T4000-L	ST-T4000-R	ST-T3000-L	ST-T3000-R	
Color	1	Black	Black	Series color	Series color	
	2	Silver	Silver	-	-	
Shift 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	-	-	-	-
		2-Way 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	-	-	-	-
	SL cable	Material	Stainless steel	Stainless steel	Steel**	Steel**
		Finish	Standard	Standard	Standard	Standard
	Recommended SL outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40
	Brake lever	Compatible brake type	V-BRAKE	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)			-	-	-	-
CANTI 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		-	-	-	-	
Servo-Wave action		-	-	-	-	
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-T610-SGS	RD-T4000	RD-T3000
Pulley cage		SGS	SGS	SGS	SGS	SGS
Color	1	Series color	Silver	Black	Black	Black
	2	-	Black	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
Mount	Direct attachment (Conventional)	X	X	X	X	X
	Riveted adapter (Road type)	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-
Cable adjuster		-	-	-	X	X
Max. front difference		22T	22T	22T	22T	22T
Total capacity		47T	45T	45T	45T	45T
Low sprocket	Max.	36T	34T	34T	34T	34T
	Min.	32T	28T	28T	28T	28T
Top sprocket	Max.	11T	12T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T
Fluoric coated link bushings		4	2	2	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	-	-	-	-
	Finish	Painted	-	-	-	-
B-Axle	Hollow axle	X	-	-	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-
B-Axle 2	Hollow axle	X	-	-	-	-
	Material	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	Aluminum	Resin	Resin
	Finish	Painted	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
Average weight (pc)		253g	275g	-	-	-
Note		*Possible to attach to Direct Mount in case bracket is removed.				

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Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE 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	28.6mm	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		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)		169g	155g	155g	157g	157g	172g	
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-T610-3	FD-T610-6	FD-T611-3	FD-T4000-TS3	FD-T4000-TS6	FD-T4000-DS3	
Color	1	Black	Black	Black	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
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	28.6mm	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	50	50	50	
Chain stay angle		63-66	66-69	63-66	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		2	2	8	-	-	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	Steel	Steel	Aluminum	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	Pearl Bright	Pearl Bright	Pearl Bright	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								

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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	28.6mm	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	-	-
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 (Disc Brake)

Series		DEORE LX	DEORE
Model no.		BR-T675	BR-T615
Color	1	Black	Black
	2	Silver	Silver
	3	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SS	SM-BH59-JK-SS
Hose joint		Straight	Straight
Brake hose color (kit)	1	Black	Black
	2	-	White
ICE TECHNOLOGY pad compatible caliper		-	-
Brake pad	Standard 1	B01S Resin	B01S Resin
	Standard 2	-	-
	Option 1	-	-
	Option 2	-	-
Recommended brake lever		BL-T675	BL-T615
Recommended brake rotor		SM-RT54 SM-RT66	SM-RT54 SM-RT56
Oil		SHIMANO Mineral	SHIMANO Mineral
One way bleeding		X	X
Mount type (available for IS mount with mount adapter)		Post-type	Post-type
Piston		2	2
Piston material		Resin	Resin
Caliper	Mono-body	-	-
	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Caliper fixing bolt	Material	Stainless steel	Steel
	Tool size	5mm	5mm
	Anti loosen method	Snap ring	Snap ring
Pad mount		Split pin	Split pin
Average weight (kit for front 800mm, w/160mm recommend RT,w/o adapter,w/2bolts, w/Resin pad)		134g**	-
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	Silver	Silver
	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		174g	176g	-	-	-
Note						

Crankset

Series		DEORE XT	DEORE LX	DEORE	SHIMANO	SHIMANO	ALIVIO
Model no.		FC-T8000	FC-T671	FC-T611	FC-T551	FC-T521	FC-T4060
Color	1	Series color	Black	Black	Black	Black	Black
	2	-	Silver	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 44-32-24T	48-36-26T 44-32-24T	48-36-26T 44-32-24T	48-36-26T 44-32-22T
Q-factor (mm)		175	181.7	181.7	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	180.0	-	-	-	-	-	-
	With bash guard	-	-	-	-	-	-
	With chain guard	X	X	X	X	X	X
Crank arm fixing bolt	Without chain / bash guard	-	X	X	X	X	X
	With	-	-	-	-	X	-
Without		X	X	X	X	-	X
HOLLOWTECH II Technology		X	X	-	-	-	-
2-piece crank construction		-	-	X	X	-	X
HOLLOWTECH crank arm		-	-	-	-	X	-
OCTALINK technology		-	-	-	-	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	-	-	-	-	-
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	-
	Finish	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 (48-36-26T) Steel +GF composite (44-32-24T)	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
Crank fixing bolt included		-	-	-	-	X	X
Average weight (170mm, w/o BB)		868g (48-36-26T)	992g (48-36-26T) 958g (44-32-24T)	-	-	-	-
Note			4 arm integrated crank arm W/O CG spec available				

Crankset

Series		SHIMANO	ACERA	SHIMANO
Model no.		FC-T4010	FC-T3010-8	FC-T3010
Color	1	Black	Black	Black
	2	Silver	Silver	Silver
Rear speeds		9	9	9
Compatible chain		HG for 9-speed	HG for 9-speed	HG for 9-speed
Chain line (mm)		50	50	50
P.C.D. (mm)		104/64	104/64	104/64
Gear arms		4arm	4arm	4arm
Chain ring combination		48-36-26T 44-32-22T	48-36-26T 44-32-22T	48-36-26T 44-32-22T
Q-factor (mm)		187.8	187.3	187.3
Crank arm length (mm)	165.0	X	X	X
	167.5	-	-	-
	170.0	X	X	X
	172.5	-	-	-
	175.0	X	X	X
	177.5	-	-	-
Optional chain guard	With bash guard	-	-	-
	With chain guard	X	X	X
	Without chain / bash guard	X	X	X
Crank arm fixing bolt	With	X	X	X
	Without	-	-	-
HOLLOWTECH II Technology		-	-	-
2-piece crank construction		-	-	-
HOLLOWTECH crank arm		-	-	-
OCTALINK technology		X	X	-
HOLLOWGLIDE		-	-	-
Compatible BB type	Outboard	-	-	-
	Octalink	X	X	-
	Square	-	-	X
Recommended BB	Threaded (normal)	BB-ES300	BB-ES300	BB-UN26
	Threaded (E-type)	-	-	-
	Threaded (chain case)	BB-ES300-AK	BB-ES300-AK	BB-UN26-K
	Pressfit	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	126	126	LL123
	Threaded (E-type)	-	-	-
	Threaded (chain case)	126-K	126-K	LL123-K
Threaded BB shell width	68mm	X	X	X
	73mm	X	X	X
	83mm	-	-	-
Chain case compatible		X	X	X
Crank arm	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Crank axle	Material	-	-	-
	Finish	-	-	-
Spider arm	Material	Aluminum	-	-
	Finish	Painted	-	-
Spider arm cover	Material	-	-	-
	Finish	-	-	-
Outer ring	Material	Steel	Steel	Steel
	Finish	Painted	Painted	Painted
Middle ring	Material	Steel	Steel	Steel
	Finish	Painted	Painted	Painted
Inner ring	Material	Steel	Steel	Steel
	Finish	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-
Stainless chain guard fixing bolt		X	- (48-36-26T) X (44-32-22T)	- (48-36-26T) X (44-32-22T)
Crank fixing bolt included		X	X	X
Average weight (170mm, w/o BB)		-	-	-
Note				

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Freehub

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	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	
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	-
	Length (mm)		146	146	146	146	146	146
	Diameter (mm)		14	10	10	10	10	10
	Thru Axle Length x Inner Diameter (mm)	135x10	-	-	-	-	-	-
		135x12	-	-	-	-	-	-
		142x12	-	-	-	-	-	-
150x12		-	-	-	-	-	-	
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	-	
Disc mount	Center lock	-	-	X	-	-	-	
	External serration rotor lock ring	-	-	-	-	-	-	
	Center lock mount cover option	-	-	X	-	-	-	
	6-bolt	-	-	-	-	-	-	
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	Painted	Barrel	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	-	-	-	-	-	-	
Average weight* *w/o axle, QR nor locking		338g	365g	369g	-	-	-	
Note								

Front Hub

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	Rim	Center Lock Disc	Rim	Rim	Rim brake
O.L.D. (mm)		100	100	100	100	100	100
Spoke hole	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
Axle	Fixing method		QR	QR	QR	QR	QR
	QR skewer length (mm)	129	-	-	-	-	-
		133	X	X	X	X	X
	Length (mm)		108	108	108	108	108
	Diameter (mm)		14	10	10	10	9
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-
		100x15	-	-	-	-	-
110x20		-	-	-	-	-	
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	-
Disc mount	External serration rotor lock ring		-	-	-	-	-
	Center lock mount cover option		-	-	X	-	-
Hub shell	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material		Aluminum	Steel	Steel	Steel	Steel
	Finish		Anodized	-	-	-	-
QR lever	Material		Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish		Anodized	Anodized	Anodized	Painted	Barrel
	Color		Black	Black (Black) Silver (Silver)	Black (Black) Silver (Silver)	Black	Black
QR housing	Material		Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish		Anodized	Anodized	Anodized	Painted	Plated
QR nut	Material		Resin & steel	Resin & steel	Resin & steel	Resin & steel	Resin & steel
	Finish		-	-	-	-	-
Average weight		153g	161g	192g	-	-	-
Note							

SL

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HB

CITY TOURING/COMFORT

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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-S700	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 Type	Center Lock Type	Inter-M	V-BRAKE	Inter-M	V-BRAKE
	Recommended Model	BR-S700	BR-S700	BR-C6000 BR-C3010 BR-C3000	-	BR-C6000 BR-C3010 BR-C3000	-
Speeds		11	8	8	8	8	8
Gear ratio	Total	409%	307%	307%	307%	307%	307%
	1	0.527	0.527	0.527	0.527	0.527	0.527
	2	0.681	0.644	0.644	0.644	0.644	0.644
	3	0.770	0.748	0.748	0.748	0.748	0.748
	4	0.878	0.851	0.851	0.851	0.851	0.851
	5	0.995	1	1	1	1	1
	6	1.134	1.223	1.223	1.223	1.223	1.223
	7	1.292	1.419	1.419	1.419	1.419	1.419
	8	1.462	1.615	1.615	1.615	1.615	1.615
	9	1.667	-	-	-	-	-
	10	1.888	-	-	-	-	-
11	2.153	-	-	-	-	-	
Top-Normal		X	X	-	-	-	-
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	-	X	-	X	-	X
	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	3.7	2.7	3.7	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		1665g	1670g	1660g	1685g	1710g	1735g
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-C3000-7R	SG-C3000-7C	SG-C3000-7C-DX
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	-	-
	3	-	-	-	-	-	-
Brake Type	Mount Type	Coaster Brake	Center Lock Type	Coaster and Special disc brake mount for SM-RTC60	Inter-M	Coaster	Coaster
	Recommended Model	-	-	-	BR-IM81 BR-C6000 BR-C3010 BR-C3000	-	-
Speeds		8	8	8	7	7	7
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	-	-	-	-	-	-	
Top-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	-	-	-	-	-
	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		2040g	1730g	2090g	1592g	1963g	1963g
Note							

SG

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Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Function name		Inter-5	Inter-5	Inter-5	Inter-5	Inter-3	Inter-3
Model no.		SG-5R30	SG-5R30-VS	SG-5R35	SG-5R35-VS	SG-3R75-A	SG-3R40
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	-	-	Black	Black	-	Black
	3	-	-	-	-	-	White
Brake Type	Mount Type	Inter-M	V-BRAKE	Inter-M	V-BRAKE	Inter-M	Inter-M
	Recommended Model	BR-IM81 BR-C6000 BR-C3010 BR-C3000	-	BR-IM81 BR-C6000 BR-C3010 BR-C3000	-	BR-IM81 BR-C6000 BR-C3010 BR-C3000	BR-IM81 BR-C6000 BR-C3010 BR-C3000
Speeds		5	5	5	5	3	3
Gear ratio	Total	206%	206%	206%	206%	158%	186%
	1	0.750	0.750	0.750	0.750	0.632	0.733
	2	1.001	1.001	1.001	1.001	0.741	1.000
	3	1.159	1.159	1.159	1.159	1.000	1.360
	4	1.335	1.335	1.335	1.335	-	-
	5	1.545	1.545	1.545	1.545	-	-
	6	-	-	-	-	-	-
	7	-	-	-	-	-	-
	8	-	-	-	-	-	-
	9	-	-	-	-	-	-
	10	-	-	-	-	-	-
11	-	-	-	-	-	-	
Top-Normal		-	-	-	-	-	-
Silent clutch		X	X	X	X	X	-
Gear change support mechanism		-	-	-	-	-	X
Shifting power modulator		-	-	-	-	-	X
Driving efficiency		Standard	Standard	Standard	Standard	HIGH	Standard
w/ Left hand dust cap		-	X	-	X	-	-
O.L.D. (mm)		132	132	132	132	122	120.4/126.8
Spoke size		#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14
Spoke hole	28H	-	-	-	-	-	X
	32H	X	X	X	X	-	X
	36H	X	X	X	X	X	X
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	-	-	X
	184	X	X	X	X	-	X
	187	-	-	-	-	-	-
	193	-	-	-	-	X	-
	Others	210/215	210	-	-	174/198/200	170/177/189/192
Flange distance (mm)		54.6	54.6	54.6	54.6	51.1	53
Flange diameter (mm)		86	86	88.6	86	92.5	84
Flange width (mm)	Right	2.3	2.3	3.4	2.3	2.3	2.3
	Left	2.5	2.5	3.6	2.5	2.7	2.3
Offset (mm)		0.3	0.3	0.3	0.3	3.6	0.8
P.C.D Left / Right. (mm)		76	76	76	76	83.5	74
Hub shell	material	Steel	Steel	Aluminum	Aluminum	Steel	Steel
	finish	Plated	Plated	Painted	Painted	Plated	Plated
Average weight		1305g	1330g	1230g	1255g	1315g	885g
Note		*Japanese market only	*Japanese market only	*Japanese market only	*Japanese market only		

Internal Geared Hub

Series		NEXUS	NEXUS
Function name		Inter-3	Inter-3
Model no.		SG-3C41	SG-3D55
Color	1	Silver	Silver
	2	-	Black
	3	-	-
Brake Type	Mount Type	Coaster	Disc Brake
	Recommended Model	-	-
Speeds		3	3
Gear ratio	Total	186%	186%
	1	0.733	0.733
	2	1.000	1.000
	3	1.360	1.360
	4	-	-
	5	-	-
	6	-	-
	7	-	-
	8	-	-
	9	-	-
	10	-	-
Top-Normal		-	-
Silent clutch		-	X
Gear change support mechanism		X	X
Shifting power modulator		X	X
Driving efficiency		Standard	Standard
w/ Left hand dust cap		-	-
O.L.D. (mm)		120/127.4	135
Spoke size		#13 / #14	#13 / #14
Spoke hole	28H	X	-
	32H	-	X
	36H	X	X
	Others	-	-
Axle length (mm)	182	-	-
	184	-	-
	187	-	-
	193	-	X
	Others	168/175/178	-
Flange distance (mm)		57.5	53.5
Flange diameter (mm)		67.5	77.6
Flange width (mm)	Right	2.3	3.2
	Left	2.3	3.2
Offset (mm)		1.2	1.67
P.C.D Left / Right. (mm)		59	65
Hub shell	material	Steel	Aluminum
	finish	Plated	Painted
Average weight		1120g	945g
Note			

SG

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Chain Tensioner

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

Shift Lever (REVOSHIFT)

Series		NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SB-C6000-8	SB-8S20-A	SB-C3000-7	SB-7S45
Color	1	Silver	Silver	Silver	Silver
	2	Black	-	Black	-
	3	-	-	-	-
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Top-Normal		-	-	-	-
Speeds		8	8	7	7
Compatible SG type		Inter-8	Inter-8	Inter-7	Inter-7
I-spec compatible		-	-	-	-
SL position adjust		-	-	-	-
SL cable adjust		X	X	X	X
Max. multiple shifts		7	7	6	6
Release function	Multi release	-	-	-	-
	Instant release	-	-	-	-
	2-way release	-	-	-	-
Optical gear display		Window	Window	Window	Dial
LED Positioning Light		-	-	-	-
Multi-Bearing Construction		-	-	-	-
SL bracket	Material	Resin	Aluminum	Resin	Aluminum
	Finish	Resin	Painted	Resin	Painted
Main lever body	Material	-	-	-	-
	Finish	-	-	-	-
Release lever body	Material	-	-	-	-
	Finish	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin
	Finish	-	-	-	-
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	-	-	-
Recommended SL Outer Casing		Sealed	Sealed	Sealed	Sealed
Stainless clamp bolt		-	-	-	-
Brake lever integrated		X	-	X	X
Brake Lever Size		4-Finger	4 Finger	4-Finger	3 Finger
Left Hand Brake Lever		BL-C6010	BL-IM60	BL-C6010	BL-IM45
Clamping Diameter (mm)		22.2	22.2	22.2	22.2
Note		*New brake lever(Ratio 2.8)		*New brake lever(Ratio 2.8)	

Shift Lever

Series		ALFINE	ALFINE	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SL-S700	SL-S7000-8	SL-8S31	SL-7S50	SL-7S31	SL-5S50
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE Plus	RAPIDFIRE Plus	REVOSHIFT	RAPIDFIRE Plus	REVOSHIFT	RAPIDFIRE Plus
Top-Normal		X	X	-	-	-	-
Speeds		11	8	8	7	7	5
Compatible SG type		SG-S700	-	Inter-8	Inter-7	Inter-7	Inter-5
I-spec compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL cable adjust		X	X	X	X	X	X
Max. multiple shifts		2	1	7	1	6	1
Release function	Multi release	X	-	-	-	-	-
	Instant release	X	-	-	-	-	-
	2-way release	X	X	-	X	-	-
Optical gear display		Above handlebar	Above handlebar	Window	Window	Window	Window
LED Positioning Light		-	-	-	-	-	-
Multi-Bearing Construction		-	-	-	-	-	-
SL bracket	Material	Aluminum	Aluminum	Resin	Aluminum	Resin	Aluminum
	Finish	Painted	Painted	Resin	Painted	Resin	Painted
Main lever body	Material	Steel & Resin	Steel & Resin	-	Resin & Steel	-	-
	Finish	-	-	-	-	-	-
Release lever body	Material	Steel & Resin	Steel & Resin	-	Resin & Steel	-	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Recommended SL Outer Casing		SP41 sealed	Sealed	Sealed	Sealed	Sealed	Sealed
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							

Shift Lever

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SL-5530	SL-5530-A	SL-3542E	SL-3541E	SL-3535E	SL-3558 J
Color	1	Silver	Silver	-	-	-	Silver
	2	Black	Black	Black	Black	Black	Black
	3	White	White	-	-	-	White
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Top-Normal		-	-	-	-	-	-
Speeds		5	5	3	3	3	3
Compatible SG type		Inter-5	Inter-5	Inter-3	Inter-3	Inter-3	Inter-3
I-spec compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL cable adjust		X	X	-	-	-	-
Max. multiple shifts		4	4	2	2	2	2
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-way release	-	-	-	-	-	-
Optical gear display		Window	Window	Window	Window	Dial	Window
LED Positioning Light		-	-	-	-	-	-
Multi-Bearing Construction		-	-	-	-	-	-
SL bracket	Material	Resin	Resin	Resin	Resin	Aluminum	Resin
	Finish	Resin	Resin	Resin	Resin	Painted	Resin
Main lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel
	Finish	-	-	-	-	-	Standard
Recommended SL Outer Casing		Sealed	Sealed	Sealed	Sealed	Sealed	Normal
Stainless clamp bolt		-	-	-	-	-	-
Brake lever integrated		-	-	-	-	-	-
Brake Lever Size		-	-	-	-	-	-
Left Hand Brake Lever		-	-	-	-	-	-
Clamping Diameter (mm)		22.2	22.2	22.2	22.2	22.2	22.2
Note							For Japanese market

Series		NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SL-3542 J	SL-3543 J	SL-3590	SL-3591J
Color	1	Silver	Silver	Gray	-
	2	Black	Black	Black	-
	3	-	White	-	White
Shifter type		REVOSHIFT	REVOSHIFT	Piano-touch	Piano-touch
Top-Normal		-	-	-	-
Speeds		3	3	3	3
Compatible SG type		Inter-3	Inter-3	Inter-3	Inter-3
I-spec compatible		-	-	-	-
SL position adjust		-	-	-	-
SL cable adjust		-	-	-	-
Max. multiple shifts		2	2	2	2
Release function	Multi release	-	-	-	-
	Instant release	-	-	-	-
	2-way release	-	-	-	-
Optical gear display		Window	Window	Dial	Dial
LED Positioning Light		-	-	-	-
Multi-Bearing Construction		-	-	-	-
SL bracket	Material	Resin	Resin	Steel	Steel
	Finish	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
	Finish	-	-	-	-
SL cable	Material	Steel	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	Standard
Recommended SL Outer Casing		Normal	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
Note		For Japanese market	For Japanese market	For Japanese market	For Japanese market

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		-
Servo wave mechanism		-
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	NEXUS	NEXUS
Model no.		BL-C6010	BL-IM60-A	BL-IM45
Color	1	Silver	Silver	Silver
	2	Black	-	-
	3	-	-	-
Compatible brake type	V-BRAKE	X	X	X
	Mechanical disc brake (MTB)	-	-	-
	Mechanical disc brake (Road)	-	-	-
	Caliper (new super SLR)	-	-	-
	Caliper (super SLR)	-	-	-
	Canti brake	-	-	-
Roller brake	X	X	X	
Recommended power modulator	V-BRAKE	SM-PM40	SM-PM40	SM-PM40
	Mechanical disc brake (MTB)	-	-	-
Clamp band	Open clamp band	-	-	-
	I-spec compatible	-	-	-
	Diameter (mm)	22.2	22.2	22.2
Internal bumper stop		X	-	-
Lever size (Finger)		4	4	4
Brake cable type		T-type	T-type	T-type
Power adjuster		-	-	-
Servo-Wave action		-	-	-
Reach adjust		X	X	X
Cable adjust		X	X	X
Cable adjust type		Two hand	Two hand	Two hand
Brake lever	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Average weight		-	-	-
Note		* Brake lever ratio is different from BL-C6000 for better performance with BR-C6000, C3000 series.	* Left only	* Left only

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Brake (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 TECHNOLOGY 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	5mm
	Anti loosen method	Snap ring
Pad mount	Pad axle	
Note		

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)	1.7	1.3	1.3	1.1	1.3	1.1
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*Performance index rating uses BR-C3000 brake unit as a reference value of 1. Testing condition						

Brake (Roller Brake)

Series	NEXUS	NEXUS
Model no.	BR-IM31	BR-IM31
Front	X	-
Rear	-	X
Structure type	Normal	Normal
Braking power (*1)	1	1
Cooling fin diameter (mm)	90	90
Heat dissipation (*1)	Less than 1	Less than 1
Without cooling fin	-	Available
Inner cable quick release	-	-
Disc brake mount compatible	-	-
Note*Performance index rating uses BR-C3000 brake unit as a reference value of 1. Testing condition	Recommended for Japanese market	Recommended for Japanese market

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Crankset

Series		ALFINE	ALFINE	NEXUS
Model no.		FC-S501	FC-S501	FC-C6000
Color	1	Silver	Silver	Silver
	2	Black	Black	Black
	3	-	-	-
Chain ring teeth	45T	X	X	-
	42T	X	X	-
	39T	X	X	-
	38T	-	-	X
	33T	-	-	X
	Others	-	-	-
	P.C.D. (mm)	130	130	-
Chain guard type	Double	X	-	-
	Single	-	X	-
	NA	-	-	X
Crank arm fixing bolt	with	X	X	X
	without	-	-	-
Chain line (mm)		49.2	42.7	44
Compatible chain	Super Narrow HG for 9-speed	X (CN-HG93 CN-HG53)	X (CN-HG93 CN-HG53)	-
	HG 8-speed (1/2"x3/32")	X (CN-HG71)	X (CN-HG71)	X (CN-HG71)
	1/2"x1/8"	-	-	X (CN-NX10)
Crank Arm length (mm)		170	170	170
Gear arms		5	5	-
2-piece solid crank construction		X	X	-
OCTALINK technology		-	-	-
Compatible BB type	Outboard	X	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	X
Chain case compatible		-	-	X
Crank arm	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized / Painted	Anodized / Painted	Painted
Chain ring	Material	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Black
Chain guard1	Material	Aluminum	Aluminum	Resin
	Finish	Anodized	Anodized	Painted
	Diameter (mm) 45T	200	200	-
	Diameter (mm) 42T	190	190	-
	Diameter (mm) 39T	174	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.

Chain

Series		NEXUS
Model no.		CN-NX10
Type		Single speed chain
Size	Super Narrow HG for 9-speed	-
	HG 8-speed (1/2"x3/32")	-
	1/2"x1/8"	X
Anti corrosion		X
Half link chain		-
Pin link plate		-
Roller link plate		-
Chromizing treatment link pin		-
Hollow pin		-
Note		

Head Parts

Series		NEXUS
Model no.		HP-NX10
Color	1	Black
	2	-
A (mm)		30.01 (29.85) or 30.2 (30)
B (mm)		30.5 - 31.5
Front fork stem thread Size		BC 1" X 24 T.P.I
C (mm)		Max. 38
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				

Cassette Sprocket

Series		CAPREO
Model no.		CS-HG70-S
Type		HG Cassette Sprocket
Speeds		9-speed
Compatible chain		HG 9-speed
Combination name		9-26T
Group name		bc
Combination	9th	26
	8th	23
	7th	20
	6th	17
	5th	15
	4th	13
	3rd	11
	2nd	10
Steel gear	Finish	Sn-Co Plated (Top: Ni plated)
	Material	Steel
Lock ring	Material	Steel
	Finish	Sn-Co Plated
Note		Only for FH-F700

Freehub

Series		CAPREO
Model no.		FH-F700
Compatible CS type		Only CS-HG70-S
Compatible wheel size		Only 16-20inch
Spoke holes	24H	X
	28H	-
	32H	X
	36H	X
	40/48H	-
	P.C.D. (mm)	45
Freehub body	Speeds	9
	11T compatible	9T
	Roller clutch	-
O.L.D. (mm)	Material	Steel
	130	Option
	135	X
	Others	-
Flange distance (mm)		60.3
Dish (mm)		8.3
Axle	QR	X
	QR skewer length (mm)	168
	Length (mm)	146 (M10)
	Nut	-
Seal	Material	Steel
	Hub	X
Hub shell	Freewheel	-
	Material	Aluminum
Quick release lever	Finish	Anodized
	Material	Aluminum
C.B.N. (Cubic Boron Nitride)	Finish	Anodized
	Material	Aluminum
	Cone Races	-
	Cup Races	-
Stainless steel ball bearings		-
Thread for drum brake (BC1.37X24)		-
Note		

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Brake (Cantilever Brake)	150	BR
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Bottom Bracket	170	BB
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Shift/Brake Lever

Series		DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	
Model no.		ST-R9100-R	ST-R9100-L	ST-9001	ST-6800	ST-6700	ST-6703	
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	White	White	
Lever type		Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	
Shift lever	Front speeds	-	2	2	2	2	3	
	Rear speeds	11	-	11	11	10	-	
	Optical Gear Display unit	-	-	-	-	-	-	
	Flight Deck	-	-	-	-	X	X	
	Multi-Bearing construction	R:4 L:4	R:4 L:4	R:4 L:4	- *	1	1	
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		RD side	OT-RS900	OT-RS900	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	SL cable	Material	SUS	SUS	SUS	SUS	SUS	SUS
		Finish	Polymer coated	Polymer coated	Polymer coated	Polymer coated	SIL-TEC	SIL-TEC
	SL 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	Spacer Use	Spacer Use	
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
	SLR EV	X	X	X	X	-	-	
	New Super SLR	-	-	-	-	X	X	
	Super SLR	-	-	-	-	-	-	
Bracket	Cable adjuster bracket	-	-	-	-	-	-	
	Material	CFRP	CFRP	CFRP	CFRP	GFRP	GFRP	
	Finish	CFRP	CFRP	CFRP	CFRP	GFRP	GFRP	
Main lever	Material	Carbon	Carbon	Carbon	CFRP	CFRP	CFRP	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Average weight		365g/Pair	365g/Pair	365g/Pair	425g/Pair	447g/Pair	460g/Pair	
Note					* Use bush			

Shift/Brake Lever

Series		105	105	105	TIAGRA	TIAGRA	TIAGRA	
Model no.		ST-5800	ST-5700	ST-5703	ST-4700-R	ST-4700-L	ST-4703-L	
Color	1	Black	Silver	Silver	Series color	Series color	Series color	
	2	Silver	Black	Black	-	-	-	
Bracket cover color	1	Black	Black	Black	Black	Black	Black	
	2	White	White	White	-	-	-	
Lever type		Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	
Shift lever	Front speeds		2	2	3	-	2	3
	Rear speeds		11	10	-	10	-	-
	Optical Gear Display unit		-	-	-	-	-	-
	Flight Deck		-	-	-	-	-	-
	Multi-Bearing construction		0	-	-	0	0	0
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		RD side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	SL cable	Material	SUS	SUS	SUS	SUS	SUS	SUS
		Finish	OPTISLICK	SIL-TEC	SIL-TEC	OPTISLICK	OPTISLICK	OPTISLICK
	SL 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	Spacer Use	Spacer Use	screw	screw	screw
	Clamp band (mm)		23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
	SLR EV		X	-	-	X	X	X
	New Super SLR		-	X	X	-	-	-
	Super SLR		-	-	-	-	-	-
Bracket	Cable adjuster bracket		-	-	-	-	-	-
	Material		GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish		GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
Main lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Silver: Clear Coated Black Paint	Silver: Clear Coated Black Paint	Painted	Painted	Painted	
Average weight		486g/Pair	490g/Pair	507g/Pair	-	-	-	
Note								

ST

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Shift/Brake Lever

Series		TIAGRA	TIAGRA	SHIMANO	SORA	SORA	SORA	
Model no.		ST-4600	ST-4603	ST-R460	ST-R3000-R	ST-R3000-L	ST-R3030-L	
Color	1	Series color	Series color	Black	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Black	Black	Black	Standard	Standard	Standard	
	2	-	-	-	-	-	-	
Lever type		Dual Control Lever	Dual Control Lever	Dual Control Lever (ST-4600 operation style)	Dual Control Lever	Dual Control Lever	Dual Control Lever	
Shift lever	Front speeds	2	3	2	-	2	3	
	Rear speeds	10	-	10	9	-	-	
	Optical Gear Display unit	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
		RD side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	SP41 Sealed	SP41 Sealed	SP41 Sealed
	SL cable	Material	SUS	SUS	SUS	SUS	SUS	SUS
		Finish	-	-	-	OPTISLICK	OPTISLICK	OPTISLICK
	SL cable shipping condition	Not Pre-Assembled	X	X	X	-	-	-
Pre-Assembled		-	-	-	X	X	X	
Brake lever	Reach adjust	Spacer Use	Spacer Use	Spacer Use	Screw	Screw	Screw	
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
	SLR EV	-	-	-	-	-	-	
	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	Clear Coated	Clear Coated	Painted	Painted	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				

Shift/Brake Lever

Series		SORA	SORA	SHIMANO	CLARIS	CLARIS	CLARIS	
Model no.		ST-3500	ST-3503	ST-R353	ST-2400-R	ST-2400-L	ST-2403-L	
Color	1	Series color	Series color	Black	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 (ST-3500 operation style)	Dual Control Lever	Dual Control Lever	Dual Control Lever	
Shift lever	Front speeds		2	3	3	-	2	3
	Rear speeds		9	-	-	8	-	-
	Optical Gear Display unit		X	X	X	X	X	X
	Flight Deck		-	-	-	-	-	-
	Multi-Bearing construction		-	-	-	-	-	-
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		RD side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	SL cable	Material	SUS	SUS	SUS	SUS	SUS	SUS
		Finish	-	-	SIL-TEC	-	-	-
	SL cable shipping condition	Not Pre-Assembled	X	X	X	X	X	X
Pre-Assembled		-	-	-	-	-	-	
Brake lever	Reach adjust		Spacer Use	Spacer Use	Spacer Use	Spacer Use	Spacer Use	
	Clamp band (mm)		23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
	SLR EV		-	-	-	-	-	
	New Super SLR		X	X	X	X	X	
	Super SLR		-	-	-	-	-	
Bracket	Cable adjuster bracket		X	X	-	-	-	
	Material		GFRP	GFRP	GFRP	GFRP	GFRP	
	Finish		GFRP	GFRP	GFRP	GFRP	GFRP	
Main lever	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish		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	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	

ST

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Shift/Brake Lever

Series		TOURNEY	TOURNEY	
Model no.		ST-A070	ST-A073-L	
Color	1	Series color	Series color	
	2	-	-	
Bracket cover color	1	Black	Black	
	2	-	-	
Lever type		Dual Control Lever	Dual Control Lever	
Shift lever	Front speeds		2	3
	Rear speeds		7	-
	Optical Gear Display unit		X	X
	Flight Deck		-	-
	Multi-Bearing construction		-	-
	Outer casing	Lever side	OT-SIS40	OT-SIS40
		RD side	OT-SIS40	OT-SIS40
	SL cable	Material	SUS Option	SUS Option
		Finish	-	-
	SL cable shipping condition	Not Pre-Assembled	X	X
Pre-Assembled		-	-	
Brake lever	Reach adjust		Screw	Screw
	Clamp band (mm)		23.8-24.2	23.8-24.2
	SLR EV		-	-
	New Super SLR		-	-
	Super SLR		X	X
Bracket	Cable adjuster bracket		-	-
	Material		GFRP	GFRP
	Finish		GFRP	GFRP
Main lever	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Average weight		-	-	
Note				

Shift/Brake Lever (Hydraulic disc brake)

Series		DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-R9120-L	ST-R9120-R	ST-RS685-L	ST-RS685-R	ST-RS505-L	ST-RS505-R	
Color	1	Standard	Standard	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Standard	Standard	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
Shifter type		Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	
Shift 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 RD type	-	Road 11-speed RD	-	Road 11-speed RD	-	Road 11-speed RD	
	I-spec compatible	-	-	-	-	-	-	
	SL position adjust	-	-	-	-	-	-	
	Release function	Multi release	-	-	-	-	-	-
		Instant release	-	-	-	-	-	-
		2-Way release	-	-	-	-	-	-
	Optical Gear Display	With	-	-	-	-	-	-
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction	-	-	-	-	-	-	
	SL outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
	SL cable	Polymer-coated cable	X	X	X	X	-	-
OPTISLICK		-	-	-	-	X	X	
SIL-TECH cable		-	-	-	-	-	-	
Stainless		-	-	-	-	-	-	
SL 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-SS	SM-BH90-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS	
	Hose joint	Straight	Straight	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	White	White	White	White	-	-
	Recommended brake caliper	BR-R9170	BR-R9170	BR-RS785	BR-RS785	BR-RS505	BR-RS505	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	
	Reach adjust	Tool less	-	-	-	-	-	-
		Tool	X	X	X	X	X	X
	Funnel bleeding	X	X	X	X	X	X	
Free stroke adjust	X	X	X	X	X	X		
Servo wave mechanism	X	X	X	X	X	X		
Clamp band	Open clamp	-	-	-	-	-	-	
	I-spec	-	-	-	-	-	-	
	Diameter (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	24	24	
Bracket	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	-	-	Painted	Painted	Painted	Painted	
Brake lever	Material	CFRP	CFRP	Engineering Composite	Engineering Composite	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Shifter lever body	Main	-	-	-	-	-	-	
	Release	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	
Master cylinder	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Clamp band		Titanium	Titanium	Steel	Steel	Steel	Steel	
Average weight		505g/pair	505g/pair	649g/pair	649g/pair	665.3g/pair	665.3g/pair	
Note								

Shift/Brake Lever (Hydraulic disc brake)

Series		SHIMANO	SHIMANO	
Model no.		ST-RS405-L	ST-RS405-R	
Color	1	Dark Grey	Dark Grey	
	2	-	-	
Bracket cover color	1	Black	Black	
	2	-	-	
Shifter type		Dual Control Lever	Dual Control Lever	
Shift lever	Front speeds		2	-
	Rear speeds		10	10
	2/3 mode converter		-	-
	Max. multiple shifts (Main lever / rear)		-	2
	Compatible RD type		-	Road 10-speed RD
	I-spec compatible		-	-
	SL position adjust		-	-
	Release function	Multi release	-	-
		Instant release	-	-
		2-Way release	-	-
	Optical Gear Display	With	-	-
		With (removable)	-	-
		Without	-	-
	Multi-Bearing construction		-	-
	SL outer casing		OT-SP41	OT-SP41
	SL cable	Polymer-coated cable	-	-
		OPTISLICK	X	X
		SIL-TECH cable	-	-
		Stainless	-	-
		Steel	-	-
SL cable	Included	X	X	
	Pre assembled	X	X	
Brake lever	Lever size (Finger)		-	-
	Brake hose (Kit)		SM-BH59-J-SS	SM-BH59-J-SS
	Hose joint		Straight	Straight
	Brake hose color (kit)	1	Black	Black
		2	-	-
	Recommended brake caliper		BR-RS405	BR-RS405
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral
		Tool less	-	-
	Reach adjust	Tool	X	X
		Funnel bleeding	X	X
Free stroke adjust		-	-	
Servo wave mechanism		-	-	
Clamp band	Open clamp		-	-
	I-spec		-	-
	Diameter (mm)		24	24
Bracket	Material		Resin	Resin
	Finish		-	-
Brake lever	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Shifter lever body	Main		-	-
	Release		Steel & Resin	Steel & Resin
Master cylinder	Material		-	-
	Finish		-	-
Clamp band		Steel	Steel	
Average weight		-	-	
Note				

Shift Lever

Series		DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	DURA-ACE
Model no.		SL-B5R1	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 RD Type		ROAD 11-speed RD	ROAD 10-speed RD	ROAD 10-speed RD	ROAD 10-speed RD	-	ROAD 9-speed RD
SL position adjust		-	-	-	-	-	-
SL cable adjust		-	-	-	X	X	-
Max. multiple shifts (Main lever/ rear)		-	-	-	4	-	-
Release function	Multi release	-	-	-	X(Right) / - (Left)	-	-
	Instant release	-	-	-	X	X	-
	2-Way release	-	-	-	X	X	-
Optical Gear Display	with	-	-	-	X	X	-
	with (removable)	-	-	-	-	-	-
	without	X	X	X	-	-	X
Multi-Bearing construction		-	-	-	R:2 L:2	2	-
SL 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	-	-	-	-	-	-
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	SIL-TEC	SIL-TEC	SIL-TEC	-	-	-
Recommended SL outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight		153g/pair	63g/pair	153g/pair	270g/pair	270g/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 RD Type		ROAD 9-speed RD	ROAD 11-speed RD	ROAD 8-speed RD	RD-4700	RD-4700	ROAD 10-speed RD
SL position adjust		-	-	-	-	-	-
SL cable adjust		-	X	-	X	X	X
Max. multiple shifts (Main lever/ rear)		-	4	-	4	-	4
Release function	Multi release	-	*X(Right) / - (Left)	-	-	-	-
	Instant release	-	X	-	X (rear)	-	X (R)
	2-Way 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
SL bracket	Material	-	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	-	Painted	-	Painted	Painted	Painted
Main lever body	Material	Aluminum	Aluminum	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	-	-	-	-	-	-
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	SIL-TEC	-	-	-	-
Recommended SL outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight		-	210g/pair	-	-	-	-
Note			* Pull:single Push:double				

Shift Lever

Series		TIAGRA	SHIMANO	SHIMANO	SORA	SORA	SORA
Model no.		SL-4603	SL-R460	SL-R400	SL-R3000-L	SL-R3030-L	SL-R3000-R
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 RD Type		-	ROAD 10-speed RD	ROAD 8-speed RD	FD-R3000	FD-R3030	RD-R3000
SL position adjust		-	-	-	-	-	-
SL cable adjust		X	X	-	X	X	X
Max. multiple shifts (Main lever/ rear)		-	4	-	-	-	3
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	X (right side)	-	-	-	-
	2-Way 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	-	-	-	-
SL 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	-	-	-	-	-	-
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	SUS	SUS	SUS
	Finish	-	-	-	OPTISLICK	OPTISLICK	OPTISLICK
Recommended SL 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-2400-R	SL-2400-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 RD Type		ROAD 9-speed RD	-	ROAD 9-speed RD	-	ROAD 8-speed RD	-
SL position adjust		-	-	-	-	-	-
SL cable adjust		X	X	X	X	X	X
Max. multiple shifts (Main lever/ rear)		3	-	3	-	3	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	X	X	X	X	X	X
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL 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	-	-	-	-	-	-
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Recommended SL outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight		-	-	-	-	-	-
Note				SHIMANO logo	SHIMANO logo		

Shift Lever

Series		CLARIS	CLARIS	CLARIS	CLARIS	A050	A050
Model no.		SL-2403-L	ST-R240-R	ST-R240-L	ST-R243-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 RD Type		-	ROAD 8-speed RD	-	-	ROAD 7-speed RD	-
SL position adjust		-	-	-	-	-	-
SL cable adjust		X	X	X	X	-	-
Max. multiple shifts (Main lever/ rear)		-	3	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	X	X	X	X	-	-
Optical Gear Display	with	X	X	X	X	-	-
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	X	X
Multi-Bearing construction		-	-	-	-	-	-
SL 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	-	-	-	-	-	-
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
	Finish	-	-	-	-	Standard	Standard
Recommended SL outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40	OT-SIS40
Average weight		-	-	-	-	-	-
Note							

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SL-SY20A-6-STEM	SL-SY20A-7-STEM	SL-SY20A-6-D	SL-SY20A-7-D	SL-SY20A-6-D/BAND	SL-SY20A-7-D/BAND
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		Stem Mount Shifter	Stem Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter
Front speeds		2 (Friction)	2 (Friction)	2 (Friction)	2 (Friction)	2 (Friction)	2 (Friction)
Rear speeds		6	7	6	7	6	7
Compatible RD Type		ROAD 6-speed RD	ROAD 7-speed RD	ROAD 6-speed RD	ROAD 7-speed RD	ROAD 6-speed RD	ROAD 7-speed RD
SL position adjust		-	-	-	-	-	-
SL cable adjust		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		-	-	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
Optical Gear Display	with	-	-	-	-	-	-
	with (removable)	-	-	-	-	-	-
	without	X	X	X	X	X	X
Multi-Bearing construction		-	-	-	-	-	-
SL bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Main lever body	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
SL cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended SL outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weight		-	-	-	-	-	-
Note				Brazed On Type	Brazed On Type	Band Type	Band Type

ST

ST

SL

BL

BR

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

FH

HB

WH

HP

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	-
	CANTI 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		-	-	-	-	-	-
Servo-Wave action		-	-	-	-	-	-
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		170g/pair	89g/pair	-	-	-	-
Note			* : Fixiation structure is expanding plug clamp, handle bar inside diameter : 19.0-22.5 dim, handle bar outside diameter : 22.2-24.0 dim.				

Series		CLARIS	CLARIS	CLARIS	CLARIS
Model no.		BL-2400	ST-R240-R	ST-R240-L	ST-R243-L
Color	1	Series color	Series color	Series color	Series color
	2	-	-	-	-
	3	-	-	-	-
Compatible brake type	V-BRAKE	X	X	X	X
	Mechanical disc brake (Road)	X	X	X	X
	Caliper (new super SLR)	X	-	-	-
	Caliper (super SLR)	-	X	X	X
	CANTI brake	X	X	X	X
	Roller brake	-	-	-	-
Recommended power modulator	V-BRAKE	-	-	-	-
	Mechanical disc brake (MTB)	-	-	-	-
Clamp band	Open clamp band	-	-	-	-
	I-spec compatible	-	-	-	-
	Diameter (mm)	22.2	22.2	22.2	22.2
Internal bumper stop		X	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		-	-	-	-
Servo-Wave action		-	-	-	-
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 Black	Anodized Black	Anodized Black
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Average weight		-	-	-	-
Note					

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	Standard	Standard	Standard	Standard	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	-
		25.0	-	-	-	-	X	-
		27.0	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	X	X	X	
Maximum tire size		28C	28C	28C	28C	25C	25C	
Rim width		20.8-28mm	20.8-28mm	20.8-28mm	20.8-28mm	*19-28mm	*19-28mm	
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	Aluminum	Aluminum	-	Aluminum	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		326g/pair	150g/pc	139g/pc	145g/pc	297g/pair	153g/pcs	
Note						Maximum tire size: 25mm Rim width: 19-26mm /19-28mm(R55C4-A Carbon)	Maximum tire size: 25mm Rim width: 19-26mm /19-28mm(R55C4-A Carbon)	

Brake (Caliper Brake)

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		BR-9010-R	BR-9010-RS	BR-6800	BR-6810-F	BR-6810-R	BR-6810-RS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Type		Direct mount type	Direct mount type	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	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon
Compatibility		SLR EV	SLR EV	SLR EV	SLR EV	SLR EV	SLR EV
Assembly pivot nut (mm)	Front (mm)	10.5	-	-	X	-	-
		12.5	-	-	X	-	-
		18.0	-	-	X	-	-
		25.0	-	-	-	-	-
		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	X	X	X	X
Maximum tire size		25C	25C	25C	28C	28C	28C
Rim width		*19-28mm	*19-28mm	*19-28mm	*19-28mm	*19-28mm	*19-28mm
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	Aluminum	Aluminum	-	Aluminum
	Finish	-	Painted	Painted	Painted	-	Painted
Titanium cable fixing bolt		X	X	-	-	-	-
Titanium pivot bolt		X (fixing bolt)	X (fixing bolt)	-	-	-	-
Average weight		127g/pcs	149g/pc	335g/pair	173g/pc	167.7g/pcs	168g/pc
Note		"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature." Maximum tire size: 25mm Rim width: 19-26mm /19-28mm(R55C4-A Carbon)	Maximum tire size: 25mm Rim width: 19-26mm /19-28mm(R55C4-A Carbon)	Maximum tire size: 25mm Rim width: 19-26mm /19-28mm(R55C4-A Carbon)	Maximum tire size: 28mm Rim width: 19-26mm /19-28mm(R55C4-A Carbon)	"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature." Maximum tire size: 28mm Rim width: 19-26mm /19-28mm(R55C4-A Carbon)	Maximum tire size: 28mm Rim width: 19-26mm /19-28mm(R55C4-A Carbon)

Brake (Caliper Brake)

Series		SHIMANO	105	105	105	105	SHIMANO	
Model no.		BR-R650	BR-5800	BR-5810-F	BR-5810-R	BR-5810-RS	BR-R561	
Color	1	Silver	Black	Black	Black	Black	Silver	
	2	-	Silver	-	-	-	Black	
Type		Super SLR Dual Pivot	SLR EV Dual Pivot	Direct mount type	Direct mount type	Direct mount type	New Super SLR Dual pivot	
Reach (mm)		57	51	-	-	-	49	
Brake shoe	Standard	R55C2	R55C4			R55C4	R55C3	
	Optional choice	R55C for Carbon rim R55C for Ceramic 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)	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	
Compatibility		SUPER SLR	SLR EV	SLR EV	SLR EV	SLR EV	New SUPER SLR	
Assembly pivot nut (mm)	Front (mm)	10.5	X	X	-	-	-	X
		12.5	X	X	-	-	-	X
		18.0	X	X	-	-	-	X
		25.0	-	-	-	-	-	-
		27.0	X	X	-	-	-	X
		32.0	-	X	-	-	-	-
	Rear (mm)	10.5	X	X	-	-	-	X
Cartridge shoe holder		X	X	X	X	X	X	
Tire guide bumpers		-	X	X	X	X	-	
QR		X	X	X	-	X	X	
Shoe angle adjusting		X	X	X	X	X	X	
Spring tension adjusting		-	-	-	-	X	-	
Maximum tire size		28C	28C	28C	28C	28C	28C	
Rim width		19-26mm	19-28mm	19-28mm	19-28mm	19-28mm	19-26mm	
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	Zinc	Resin	Resin	-	Aluminum	Zinc	
	Finish	Plated	Painted	Painted	-	Painted	Plated	
Titanium cable fixing bolt		-	-	-	-	-	-	
Titanium pivot bolt		-	-	-	-	-	-	
Average weight		-	388g/pair	174g/pc	176g/pc	175g/pc	-	
Note		Maximum tire size: 28mm	Maximum tire size: 28mm Rim width: 19-26mm /19-28mm(R55C4-A Carbon)	Maximum tire size: 28mm Rim width: 19-26mm /19-28mm(R55C4-A Carbon)	"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature." Maximum tire size: 28mm Rim width: 19-26mm /19-28mm(R55C4-A Carbon)	Maximum tire size: 28mm Rim width: 19-26mm /19-28mm(R55C4-A Carbon)	Maximum tire size: 28mm	

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Brake (Caliper Brake)

Series		TIAGRA	SHIMANO	SORA	CLARIS
Model no.		BR-4700	BR-R451	BR-R3000	BR-2400
Color	1	Series color	Black	Series color	Series color
	2	-	Silver	-	-
Type		New Super SLR Dual pivot	Super SLR Dual Pivot	New Super SLR Dual pivot	New Super SLR Dual pivot
Reach (mm)		51	57	51mm	49
Brake shoe	Standard	R50T5	R50T2	R50T5	R50T2
	Optional choice	R50T4	-	R50T4	R50T4
Compatibility		New SUPER SLR	SUPER SLR	New SUPER SLR	New SUPER SLR
Assembly pivot nut (mm)	Front (mm)	10.5	X	X	X
		12.5	X	X	X
		18.0	X	X	X
		25.0	-	-	-
		27.0	X	X	X
		32.0	X	-	X
	Rear (mm)	10.5	X	X	X
Cartridge shoe holder		-	-	-	-
Tire guide bumpers		-	-	-	-
QR		X	X	X	X
Shoe angle adjusting		X	X	X	X
Spring tension adjusting		-	-	-	-
Maximum tire size		28C	32C	28mm	28C
Rim width		19-26mm	19-26mm	19-28mm	19-26mm
Cartridge shoe holder	Material	-	-	-	-
	Finish	-	-	-	-
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted
Gate	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Anodized	Anodized
QR	Material	Resin	Resin	Resin	Resin
	Finish	Painted	-	-	-
Titanium cable fixing bolt		-	-	-	-
Titanium pivot bolt		-	-	-	-
Average weight		-	-	-	-
Note			QR Wider Open Maximum tire size: 32mm		Maximum tire size: 28mm

Brake (Hydraulic disc brake)

Series		DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-R9170	BR-R9170	BR-RS805	BR-RS785	BR-R785	BR-RS505
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 (ULTEGRA)	Series color (ULTEGRA)	Series color (ULTEGRA)	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake hose (kit)		SM-BH90-JKSS	SM-BH90-JKSS	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-SB	SM-BH59-J-SS SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight	Straight	Banjo	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	White	White	-
ICE TECHNOLOGY pad compatible caliper		X	X	X	X	X	X
Brake Pad	Standard 1	K02Ti-R	K02Ti-R	L02A-R	J02A-Resin	F01A-Resin	L02A-R
	Standard 2	L02A-R	L02A-R	L04C-M	J04C-Metal	F03C-Metal	L04C-M
	Option 1	K04Ti-M	K04Ti-M	K02S-R	G02A-Resin	G01A-Resin	K02S-R
	Option 2	L04C-M	L04C-M	K04S-M	G03S Metal	G03S Metal	K04S-M
Recommended brake lever		ST-R9120/ST-R9170/ ST-R9180	ST-R9120/ST-R9170/ ST-R9180	ST-R785 ST-RS685	ST-RS685 ST-R785	ST-R785	ST-RS505
Recommended brake rotor		SM-RT900	SM-RT900	SM-RT81	SM-RT99	SM-RT98 SM-RT99	-
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	Post-mount	Post-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	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	4mm	4mm	4mm	5mm	5mm	4mm
	Anti loosen method	SNAP RING BOLT FIX PIN	BOLT FIX PIN	Spring washer	Snap ring	Snap ring	Spring washer
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight		256g/pair	256g/pair	290g/pair	284g/pair	271g/pair	290g/pair
Note							

Brake (Hydraulic disc brake)

Series		SHIMANO	SHIMANO
Model no.		BR-RS405-F	BR-RS405-R
Brake type		Hydraulic disc brake	Hydraulic disc brake
Color	1	Dark Grey	Dark Grey
	2	-	-
	3	-	-
Brake hose (kit)		SM-BH59-J-SSR	SM-BH59-J-SSR
Hose joint		Straight	Straight
Brake hose color (kit)	1	Black	Black
	2	-	-
ICE TECHNOLOGY pad compatible caliper		X	X
Brake Pad	Standard 1	K025-R	K025-R
	Standard 2	-	-
	Option 1	L02A-R	L02A-R
	Option 2	-	-
Recommended brake lever		ST-RS405	ST-RS405
Recommended brake rotor		SM-RT81 (140mm/160mm)	SM-RT81 (140mm/160mm)
Oil		SHIMANO Mineral	SHIMANO Mineral
One way bleeding		X	X
Mount type (available for IS mount with mount adapter)		Flat mount	Flat mount
Piston		2	2
Piston material		Resin	Resin
Caliper	Mono-body	-	-
	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel
	Tool size	4mm	4mm
	Anti loosen method	SNAP RING BOLT FIX PIN	BOLT FIX PIN
Pad mount		Pad axle	Pad axle
Average weight		-	-
Note			

Brake (Mechanical Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-CX77	BR-R517	BR-R317	BR-RS305-F	BR-RS305-R
Brake Type		Mechanical Disc Brake	Mechanical Disc Brake	Mechanical Disc Brake	Mechanical Disc-brake	Mechanical Disc-brake
Color	1	Glossy Gray	Black	Silver	Black	Black
	2	-	Silver	Black	-	-
Compatibility		New SUPER SLR	New SUPER SLR	New SUPER SLR	New Super SLR	New Super SLR
Ice technology pad compatible caliper		-	-	-	X	X
Pad	Standard	G01A Resin	G01S Resin	G01S Resin	K02S-R	K02S-R
	Option 1	G03Ti	-	-	L02A-R	L02A-R
	Option 2	-	-	-	-	-
	Option 3	-	-	-	-	-
Fixing BT Spec for rear mount	10mm mount	-	-	-	-	X
	15mm mount	-	-	-	-	X
	20mm mount	-	-	-	-	X
	25mm mount	-	-	-	-	X
	30mm mount	-	-	-	-	X
	35mm mount	-	-	-	-	X
Recommended Brake Lever		ST-9001/ST-9070/ ST-6800/ST-6870/ ST-6700/ 6770/ BL-R780	ST-4600/5700 BL-4700/R780	ST-3500/2400 BL-2400	ST-3500	ST-3500
Recommended Brake Rotor		SM-RT81 (140mm/160mm)	SM-RT64 (160mm) SM-RT81 (140mm)	SM-RT54 (160mm) SM-RT81 (140mm)	SM-RT54 (160mm) SM-RT81 (140mm/160mm)	SM-RT54 (160mm) SM-RT81 (140mm/160mm)
Mount Type		Post mount	Post mount	Post mount	FLAT mount	FLAT mount
Piston		1	1	1	1	1
Piston material		-	-	-	-	-
Caliper	Mono-body	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Painted	Clear Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel	Steel
	Tool size	5mm	5mm	5mm	4mm	4mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	SNAP RING BOLT FIX PIN	BOLT FIX PIN
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight		159g	-	-	-	-
Note		Cyclocross usage	SHIMANO logo	SHIMANO logo		

Brake (V-BRAKE)

Series		SHIMANO	SHIMANO
Model no.		BR-R573	BR-R353
Color	1	Silver	Silver
	2	Black	Black
	3	-	-
Brake type		V-BRAKE	V-BRAKE
Brake shoe	Standard 1	M70R2	S70T
	Standard 2	-	-
	Option 1	M70CT4	M70T4
	Option 2	S70C	-
Cartridge shoe holder		X	-
Arch size (mm)		90	90
Spacer type	X type	X	X
	Y type	-	-
Compatible lead pipe angle (deg.)		45/90/135	45/90/135
Sleeve & Bushing axle		X	X
V-arm/Caliper	Material	Aluminum	Aluminum
	Finish	Anodized	Painted
Fixing bolt length (mm)	16	X	X
	25	X	X
Fixing bolt	Material	Titanium	Steel
	Finish	-	Plated (Black)
	Chamfered bolt	X	-
Link wire		-	-
Reinforced link		-	-
Parallel link		-	-
Power modulator		-	-
Linear spring		X	X
Threaded BR shoe post		X	X
Average weight		-	-
Note		SHIMANO logo	SHIMANO logo

Brake (Cantilever Brake)

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

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Rear Derailleur

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	105	105
Model no.		RD-R9100-SS	RD-9000-SS	RD-6800-SS	RD-6800-GS	RD-5800-SS	RD-5800-GS
Pulley cage		SS	SS	SS	GS	SS	GS
Color	1	Series color	Series color	Series color	Series color	Black	Black
	2	-	-	-	-	Silver	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
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	33T	37T	33T	37T
Low sprocket	Max.	30T	28T	28T	32T	28T	32T
	Min.	25T	23T	23T	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	2	2
Pulley	G pulley bearing	X	X	X	X	-	-
	T pulley bearing	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	-	-
	Material	Aluminum	Aluminum	Stainless steel	Stainless steel	Steel	Steel
	Finish	Anodized	-	-	-	Plated	Plated
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	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Plate body	Material	CFRP	CFRP	CFRP	CFRP	Aluminum	Aluminum
	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	Steel	Steel
	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		158g	158g	195g	207g	234g	250g
Note		w/o bracket spec available					

Rear Derailleur

Series		105	105	105	TIAGRA	TIAGRA	TIAGRA
Model no.		RD-5701-SS	RD-5701-GS	RD-5701-GS	RD-4700-SS	RD-4700-GS	RD-4700-GS
Pulley cage		SS	GS(Front double)	GS(Front triple)	SS	GS(Front double)	GS(Front triple)
Color	1	Black	Black	Black	Series color	Series color	Series color
	2	Silver	Silver	Silver	-	-	-
Rear speeds		10	10	10	10	10	10
Compatible chain		HG 10-speed	HG 10-speed	HG 10-speed	HG-X Chain	HG-X Chain	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	22T	16T	16T	20T
Total capacity		34T	40T	40T	33T	41T	41T
Low sprocket	Max.	30T	32T	30T	28T	34T	32T
	Min.	25T	27T	25T	25T	28T	25T
Top sprocket	Max.	14T	12T	14T	14T	12T	12T
	Min.	11T	11T	11T	11T	11T	11T
Fluoroc 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	Stainless steel	Stainless 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	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	Plated	Plated	Plated	Plated	Plated	Plated
Outer plate	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Plated	Plated	Plated
Inner plate	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Plated	Plated	Plated
Average weight		230g	243g	243g	-	-	-
Note							

Rear Derailleur

Series		TIAGRA	TIAGRA	TIAGRA	SORA	SORA	SHIMANO
Model no.		RD-4601-SS	RD-4601-GS	RD-4601-GS	RD-R3000-SS	RD-R3000-GS	RD-R350-10-SS
Pulley cage		SS	GS(Front double)	GS(Front triple)	SS	GS	SS
Color	1	Series color	Series color	Series color	Series color	Series color	Black
	2	-	-	-	-	-	-
Rear speeds		10	10	10	9	9	10
Compatible chain		HG 10-speed	HG 10-speed	HG 10-speed	HG 9-speed	HG 9-speed	HG 10-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	16T	22T	16T	20T	14T
Total capacity		34T	40T	40T	37T	43T	37T
Low sprocket	Max.	30T	32T	30T	32T	34T	34T
	Min.	25T	27T	25T	25T	28T	30T
Top sprocket	Max.	14T	12T	14T	14T	14T	12T
	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	Steel	Steel	Steel
	Sunken type pulley bolt	X	X	X	-	-	X
Bracket	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
B-axle	Hollow axle	-	-	-	-	-	-
	Material	Steel	Steel	Steel	Stainless steel	Stainless 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	Resin	Resin	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	Painted	Painted	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	Plated	Plated	Plated	Painted	Painted	Painted
Average weight		-	-	-	-	-	-
Note							SHIMANO logo

Rear Derailleur

Series		SHIMANO	CLARIS	CLARIS	TOURNEY A070
Model no.		RD-R350-GS	RD-2400-SS	RD-2400-GS	RD-A070
Pulley cage		GS	SS	GS	Smart
Color	1	Black	Series color	Series color	Series color
	2	-	-	-	-
Rear speeds		9	8	8	7
Compatible chain		HG 9-speed	HG 8-speed	HG 8-speed	HG
Mount	Direct attachment (Conventional)	X	X	X	X
	Riveted adapter (Road type)	-	-	-	X
	Riveted adapter (BMX-Track type)	-	-	-	-
Cable adjuster		X	X	X	X
Max. front difference		20T	16T	20T	20T
Total capacity		41T	37T	41T	37T
Low sprocket	Max.	32T	32T	32T	28T
	Min.	25T	25T	25T	28T
Top sprocket	Max.	14T	13T	13T	14T
	Min.	11T	11T	11T	11T
Fluoric coated link bushings		2	-	-	-
Pulley	G pulley bearing	-	-	-	-
	T pulley bearing	-	-	-	-
	Teeth	11T	11T	11T	11/13T
	Bolts material	Steel	Steel	Steel	Steel
	Sunken type pulley bolt	X	X	X	-
Bracket	Material	-	-	-	-
	Finish	-	-	-	-
B-axle	Hollow axle	-	-	-	-
	Material	Stainless steel	Steel	Steel	Steel
	Finish	-	Plated	Plated	MnPO4
B-axle 2	Hollow axle	-	-	-	-
	Material	-	-	-	-
	Finish	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Resin
	Finish	Painted	Painted	Painted	-
P-axle	Material	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated
Plate body	Material	Resin	Resin	Resin	Resin
	Finish	Painted	Painted	Painted	-
Outer link	Material	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Zinc plated
Outer plate	Material	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Average weight		-	-	-	-
Note		SHIMANO logo			

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Front Derailleur

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	
Model no.		FD-R9100-F	FD-R9100-B	FD-9000-F	FD-9000-B	FD-6800-F	FD-6800-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/AdapterS)	-	X (w/AdapterS)	-	X (w/AdapterS)	
		31.8	-	X	-	X	-	X
		34.9	-	X	-	X	-	X
	Brazed-On	X	-	X	-	X	-	
Cable adjust		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		46-55T	46-55T	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		-	-	-	-	-	-	
Link bushings		10	10	7	7	7	7	
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	Aluminum	Aluminum	
	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	-	-	
Average weight (Band type: L size, Direct type: w/ bolt)		70g	85g	66g	78g	89g	104g	
Note								

Front Derailleur

Series		ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	SHIMANO	SHIMANO
Model no.		FD-6700-F	FD-6700-B	FD-6703-F	FD-6703-B	FD-CX70-F-T	FD-CX70-F-D
Color	1	Silver	Silver	Silver	Silver	Gray	Gray
	2	Glossy Gray	Glossy Gray	Glossy Gray	Glossy Gray	-	-
Speeds	Front	2	2	3	3	2	2
	Rear	10	10	10	10	10	10
Compatible chain		HG 10-speed	HG 10-speed	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/AdapterS)	-	X (w/AdapterS)	-
		31.8	-	X	-	X	-
		34.9	-	X	-	X	-
	Brazed-On	X	-	X	-	X	X
Cable adjust		-	-	-	-	-	-
Top-Pull exclusive option		-	-	-	-	X	-
Chain line (mm)		43.5	43.5	45	45	43.5	43.5
Chain stay angle		61-66	61-66	63-66	63-66	63-66	63-66
Top gear teeth		50-56T	50-56T	52T	52T	46-52T	46-52T
Total capacity		16T	16T	16T	16T	16T	16T
Applicable Top-Mid tooth difference		-	-	13T	13T	-	-
Angled clamp band design		-	-	-	-	-	-
Link bushings		7	7	7	7	7	7
Front clamp band	Material	-	Aluminum	-	Aluminum	-	-
	Finish	-	Painted	-	Painted	-	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
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)		89g	104g	114g	131g	92g	87g
Note							

Front Derailleur

Series		SHIMANO	SHIMANO	105	105	105	105	
Model no.		FD-CX70-B-T	FD-CX70-B-D	FD-5800-F	FD-5800-B	FD-5700-F	FD-5700-B	
Color	1	Gray	Gray	Black	Black	Black	Black	
	2	-	-	Silver	Silver	Silver	Silver	
Speeds	Front	2	2	2	2	2	2	
	Rear	10	10	11	11	10	10	
Compatible chain		HG 10-speed	HG 10-speed	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG 10-speed	HG 10-speed	
Action	Top Swing	-	-	-	-	-	-	
	Down Swing	X	X	X	X	X	X	
Mount	Clamp Band (mm)	28.6	X (w/AdapterS)	X (w/AdapterS)	-	X*	-	X (w/AdapterS)
		31.8	X	X	-	X	-	X
		34.9	X	X	-	X	-	X
	Brazed-On	-	-	X	-	X	-	
Cable adjust		-	-	-	-	-	-	
Top-Pull exclusive option		X	-	-	-	-	-	
Chain line (mm)		43.5	43.5	43.5	43.5	43.5	43.5	
Chain stay angle		63-66	63-66	61-66	61-66	61-66	61-66	
Top gear teeth		46-52T	46-52T	46-53T	46-53T	50-56T	50-56T	
Total capacity		16T	16T	16T	16T	16T	16T	
Applicable Top-Mid tooth difference		-	-	-	-	-	-	
Angled clamp band design		-	-	-	-	-	-	
Link bushings		7	7	8	8	-	-	
Front clamp band	Material	Aluminum	Aluminum	-	Aluminum	-	Aluminum	
	Finish	Painted	Painted	-	Painted	-	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	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)		108g	103g	89g	104g	89g	105g	
Note					* w/Adapter			

Front Derailleur

Series		105	105	TIAGRA	TIAGRA	TIAGRA	TIAGRA	
Model no.		FD-5703-F	FD-5703-B	FD-4700-F	FD-4700-B	FD-4703-F	FD-4703-B	
Color	1	Black	Black	Series color	Series color	Series color	Series color	
	2	Silver	Silver	-	-	-	-	
Speeds	Front	3	3	2	2	3	3	
	Rear	10	10	10	10	10	10	
Compatible chain		HG 10-speed	HG 10-speed	HG-X chain/ CN-HG500	HG-X chain/ CN-HG500	HG-X chain/ CN-HG500	HG-X chain/ CN-HG500	
Action	Top Swing	-	-	-	-	-	-	
	Down Swing	X	X	X	X	X	X	
Mount	Clamp Band (mm)	28.6	-	X (w/AdapterS)	-	X*	-	X*
		31.8	-	X	-	X	-	X
		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		-	-	-	-	-	-	
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)		114g	132g	-	-	-	-	
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	TIAGRA	TIAGRA	SHIMANO	SORA
Model no.		FD-4600-F	FD-4600-B	FD-4603-F	FD-4603-B	FD-R460-B	FD-R3000-F
Color	1	Series color	Series color	Series color	Series color	Black	Series color
	2	-	-	-	-	-	-
Speeds	Front	2	2	3	3	2	2
	Rear	10	10	10	10	10	9speed
Compatible chain		HG 10-speed	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/AdapterS)	-	X (w/AdapterS)	-
		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	45	45	43.5	43.5
Chain stay angle		61-66	61-66	63-66	63-66	63-66	61-66
Top gear teeth		50-56T	50-56T	50T	50T	46-50T	46-52T
Total capacity		16T	16T	20T	20T	16T	16T
Applicable Top-Mid tooth difference		-	-	11T	11T	-	-
Angled clamp band design		-	-	-	-	-	X
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	Stainless steel	Stainless steel	Stainless steel	Steel
	Finish	-	-	-	-	-	Ni plated
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel
	Finish	-	-	-	-	-	Zinc plated
Average weight (Band type: L size, Direct type: w/ bolt)		-	-	-	-	-	-
Note						SHIMANO logo	

Front Derailleur

Series		SORA	SORA	SORA	SORA	SORA	SHIMANO
Model no.		FD-R3000-B	FD-R3030-F	FD-R3030-B	FD-3500-F	FD-3500-B	FD-R353-B
Color	1	Series color	Series color	Series color	Series color	Series color	Black
	2	-	-	-	-	-	-
Speeds	Front	2	3	3	2	2	3
	Rear	9speed	9speed	9speed	9	9	9
Compatible chain		-	-	-	HG 9-speed	HG 9-speed	HG 9-speed
Action	Top Swing	-	-	-	-	-	-
	Down Swing	X	X	X	X	X	X
Mount	Clamp Band (mm)	28.6	X(Adapter)	-	X(Adapter)	-	X (w/AdapterS)
		31.8	X(Adapter)	-	X(Adapter)	-	X
		34.9	X	-	X	-	X
	Brazed-On	-	X	-	X	-	-
Cable adjust		-	-	-	-	-	-
Top-Pull exclusive option		-	-	-	-	-	-
Chain line (mm)		43.5	45	45	43.5	43.5	45
Chain stay angle		61-66	63-66	63-66	61-66	61-66	63-66
Top gear teeth		46-52T	50T	50T	46-52T	46-52T	50T
Total capacity		16T	20T	20T	16T	16T	20T
Applicable Top-Mid tooth difference		-	11T	11T	-	-	11T
Angled clamp band design		X	X	X	-	-	-
Link bushings		-	-	-	-	-	-
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
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	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Ni plated	Ni plated	Ni plated	Ni plated	Ni plated	Ni plated
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (Band type: L size, Direct type: w/ bolt)		-	-	-	-	-	-
Note							SHIMANO logo

Front Derailleur

Series		CLARIS	CLARIS	CLARIS	CLARIS	TOURNEY	TOURNEY
Model no.		FD-2400-F	FD-2400-B	FD-2403-F	FD-2403-B	FD-A070-A	FD-A073
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Speeds	Front	2	2	3	3	2	3
	Rear	8	8	8	8	7	7
Compatible chain		HG 8-speed	HG 8-speed	HG 8-speed	HG 8-speed	HG	HG
Action	Top Swing	-	-	-	-	-	-
	Down Swing	X	X	X	X	X	X
Mount	Clamp Band (mm)	28.6	-	X (w/Adapter S)	-	X (w/Adapter S)	X (Adapter S)
		31.8	-	X	-	X	X (Adapter M)
		34.9	-	X	-	X	X
	Brazed-On	X	-	X	-	-	-
Cable adjust		-	-	-	-	-	-
Top-Pull exclusive option		-	-	-	-	-	-
Chain line (mm)		43.5	43.5	45	45	43.5	45
Chain stay angle		61-66	61-66	63-66	63-66	61-66	63-66
Top gear teeth		46-52T	46-52T	50T	50T	50T	50T
Total capacity		16T	16T	20T	20T	16T	20T
Applicable Top-Mid tooth difference		-	-	11T	11T	-	11T
Angled clamp band design		X	X	X	X	X	X
Link bushings		-	-	-	-	-	-
Front clamp band	Material	Aluminum	Steel	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Rear clamp band, base bracket	Material	-	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	-	Painted	-	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	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	Painted
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							

Front Derailleur

Series		A050	
Model no.		FD-A050	
Color	1	Series color	
	2	-	
Speeds	Front	2 (Friction)	
	Rear	7	
Compatible chain		HG	
Action	Top Swing	-	
	Down Swing	X	
Mount	Clamp Band (mm)	28.6	X
		31.8	X
		34.9	-
	Brazed-On	-	
Cable adjust		-	
Top-Pull exclusive option		-	
Chain line (mm)		43.5	
Chain stay angle		61-66	
Top gear teeth		53T	
Total capacity		16T	
Applicable Top-Mid tooth difference		16T	
Angled clamp band design		-	
Link bushings		-	
Front clamp band	Material	Steel	
	Finish	Zinc plated	
Rear clamp band, base bracket	Material	Steel	
	Finish	Zinc plated	
Outer link	Material	Steel+Resin	
	Finish	Zinc plated	
Inner link	Material	Steel	
	Finish	Zinc plated	
Chain guide	Material	Steel	
	Finish	Chrome plated	
Cable fixing bolt	Material	Steel	
	Finish	Zinc plated	
Stroke Adjusting Screw	Material	Steel	
	Finish	Zinc plated	
Average weight (Band type: L size, Direct type: w/ bolt)		-	
Note			

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Crankset

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA
Model no.		FC-R9100	FC-R9100-P	FC-R9100-P w/o gears	FC-9000	FC-6800	FC-6800
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		11	11	11	11	11	11
Compatible chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11
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
Q-factor		146	146	146	146	146.6	146.6
Crank arm length (mm)	165	X	-	X	X	X	X
	167.5	X	-	X	X	-	-
	170	X	X	X	X	X	X
	172.5	X	X	X	X	X	X
	175	X	X	X	X	X	X
	177.5	X	-	X	X	-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain guard	X	X	X	X	X	X
Crank arm fixing bolt	With	X	X	X	X	X	X
	Without	-	-	-	-	-	-
HOLLOWTECH II technology		X	X	X	X	X	X
2-piece crank construction		-	-	-	-	-	-
HOLLOWTECH technology		X	X	X	X	X	X
OCTALINK technology		-	-	-	-	-	-
HOLLOWGLIDE		X	X	X	X	X	-
Compatible BB type	Outboard	X	X	X	X	X	X
	Octalink	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	BB-R9100	BB-R9100	BB-R9100	BB-R9100	SM-BBR60	SM-BBR60
	Pressfit	SM-BB92-41B	SM-BB92-41B	SM-BB92-41B	SM-BB92-41B	SM-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	Aluminum/CFRP or GFRP	Aluminum/CFRP	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Outer / middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing bolt	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
crank fixing bolt included		X	X	X	X	X	X
Average weight (170mm, w/o BB)		621g (53-39T) 609g (50-34T)	-	-	639g (55-42T) 632g (54-42T) 618g (53-39T) 622g (52-38T) 618g (52-36T) 610g (50-34T)	691g (53-39T) 684g (52-36T) 676g (50-34T)	671g (46-36T)
Note							

Crankset

Series		105	SHIMANO	DURA-ACE	ULTEGRA	ULTEGRA	105
Model no.		FC-5800	FC-R5500	FC-7710	FC-6703	FC-6750	FC-5700
Color	1	Black	Black	Series color	Glossy Gray	Glossy Gray	Black
	2	Silver	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	130
Gear arms (pcs)		4	5	5	5	5	5
Chain ring combination		53-39T 52-36T 50-34T	52-36T 50-34T 46-36T	45T>>55T (1/2"X1/8"/ 1/2"X3/32")	52-39-30T	50-34T	53-39T 52-39T
Q-factor		146	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	-	-	-	-	-	-
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 technology		X	-	X	X	X	X
2-piece crank construction		-	X	-	-	-	-
HOLLOWTECH technology		X	-	X	X	X	X
OCTALINK technology		-	-	X	-	-	-
HOLLOWGLIDE		-	-	-	X	X	-
Compatible BB type	Outboard	X	X	-	X	X	X
	Octalink	-	-	X	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	SM-BBR60	BB-R5500	BB-7710 / 7700	SM-BB6700	SM-BB6700	SM-BB5700
	Pressfit	SM-BB72-41B	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/GFRP	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)		755g (53-39T) 737g (52-36T) 725g (50-34T)	823g (52-36T) 798g (50-34T) 790g (46-36T)	82g (46T, 1 / 2" x 1 / 8")	803g	699g	756g (53-39T) 750g (52-39T)
Note							

Crankset

Series		105	105	SHIMANO	TIAGRA	TIAGRA	SHIMANO
Model no.		FC-5750	FC-5703	FC-CX50	FC-4700	FC-4703	FC-R460
Color	1	Black	Black	Silver	Series color	Series color	Black
	2	-	-	Black	-	-	-
Rear speeds		10	10	10	10	10	10
Compatible chain		HG 10-speed	HG 10-speed	HG 10-speed	Super Narrow HG 10-speed	Super Narrow HG 10-speed	HG-X 10-speed
Chain line (mm)		43.5	45	43.5	43.5	45	43.5
P.C.D. left / right (mm)		110	130 / 74	110	110	110/74	110
Gear arms (pcs)		5	5	5	4	4	5
Chain ring combination		50-34T	50-39-30T	46-36T	52-36T 50-34T	50-39-30T	48-34T 46-34T
Q-factor		146	154.76	150	150	158.8	149.9
Crank arm length (mm)	165	X	X	-	X	X	X
	167.5	-	-	-	-	-	-
	170	X	X	X	X	X	X
	172.5	X	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	X
	Without	-	-	-	-	-	-
HOLLOWTECH II technology		X	X	-	-	-	-
2-piece crank construction		-	-	X	X	X	X
HOLLOWTECH technology		X	X	-	-	-	-
OCTALINK technology		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	X	X	X	X
	Octalink	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	SM-BB5700	SM-BB5700	BB-RS500	BB-RS500	BB-RS500	BB-RS500
	Pressfit	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B	BB-RS500-PB	BB-RS500-PB	SM-BB71-41B
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	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum/GFRP	Aluminum/GFRP	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	-	Aluminum	-	-	Aluminum	-
	Finish	-	Anodized	-	-	Anodized	-
Inner ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Plated	Anodized
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	-	Stainless steel	-	-	Stainless steel	-
	Finish	-	-	-	-	-	-
crank fixing bolt included		X	X	X	X	X	X
Average weight (170mm, w/o BB)		716g	831g	798g	-	-	-
Note							SHIMANO logo

Crankset

Series		SHIMANO	SHIMANO	SORA	SORA	SORA	SORA
Model no.		FC-RS400	FC-R453	FC-R3030	FC-R3030-CG	FC-R3000	FC-R3000-CG
Color	1	Black	Black	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
Chain line (mm)		43.5	45	43.5	43.5	43.5	43.5
P.C.D. left / right (mm)		110	130 / 74	110/74	110/74	110	110
Gear arms (pcs)		5	5	4	5	4	5
Chain ring combination		50-34T	50-39-30T	50-39-30T	50-39-30T	50-34T	50-34T
Q-factor		150.3	157.8	158.8	158.8	150	150
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	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	X	-	X
	Without chain guard	X	X	X	-	X	-
Crank arm fixing bolt	With	-	X	X	X	X	X
	Without	-	-	-	-	-	-
HOLLOWTECH II technology		-	-	-	-	-	-
2-piece crank construction		X	-	X	X	X	X
HOLLOWTECH technology		-	-	-	-	-	-
OCTALINK technology		-	X	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	-	X	X	X	X
	Octalink	-	X	-	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	BB-RS500	BBES300	BB-RS500	BB-RS500	BB-RS500	BB-RS500
	Pressfit	BB-RS500-PB	-	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	121	-	-	-	-
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	Aluminum	Aluminum	Aluminum/Resin	Aluminum/Resin	Aluminum/Resin	Aluminum/Resin
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	-	Steel	Steel	Steel	-	-
	Finish	-	Painted	Painted	Painted	-	-
Inner ring	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Anodized	Painted	Painted	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	SUS	Stainless steel	SUS	SUS	SUS	SUS
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	-	Stainless steel	SUS	SUS	SUS	SUS
	Finish	-	-	-	-	-	-
crank fixing bolt included		X	X	X	X	X	X
Average weight (170mm, w/o BB)		-	-	-	-	-	-
Note			SHIMANO logo		w/CG spec		w/CG spec

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

Crankset

Series		SORA	SORA	SHIMANO	SHIMANO	CLARIS	CLARIS
Model no.		FC-3550	FC-3503	FC-R350	FC-R345	FC-2450	FC-2403
Color	1	Series color	Series color	Black	Silver	Series color	Series color
	2	-	-	-	Black	Black	Black
Rear speeds		9	9	9	9	8	8
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 8-speed	HG 8-speed
Chain line (mm)		43.5	45	43.5	43.5	43.5	45
P.C.D. left / right (mm)		110	130 / 74	130	110	110	130 / 74
Gear arms (pcs)		5	5	5	5	5	5
Chain ring combination		50-34T 46-34T	50-39-30T	52-39T	50-34T	50-34T 46-34T	50-39-30T
Q-factor		150.3	159.2	150.3	152.2	152	157.5
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	X	X
	Without chain guard	X	X	X	X	X	X
Crank arm fixing bolt	With	X	X	X	X	X	X
	Without	-	-	-	-	-	-
HOLLOWTECH II technology		-	-	-	-	-	-
2-piece crank construction		X	X	X	-	-	-
HOLLOWTECH technology		-	-	-	-	-	-
OCTALINK technology		-	-	-	X	X	X
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	X	-	-	-
	Octalink	-	-	-	X	X	X
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	BB-RS500	BB-RS500	BB-RS500	BBES300	BBES300	BBES300
	Pressfit	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	113	113	121
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	-	-	-
	Finish	Plated	Plated	Plated	-	-	-
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Middle ring	Material	-	Steel	-	-	-	Steel
	Finish	-	Painted	-	-	-	Painted
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	-	Stainless steel	-	-	-	Stainless steel
	Finish	-	-	-	-	-	-
crank fixing bolt included		X	X	X	X	X	X
Average weight (170mm, w/o BB)		-	-	-	-	-	-
Note							

Crankset

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

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Bottom Bracket (HOLLOWTECH II)

Series		DURA-ACE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BB-R9100	SM-BB92-41B	SM-BB72-41B	SM-BBR60	BB-R5500	BB-R5500-PB
HOLLOWTECH II BB	Threaded BB type	X	-	-	X	X	-
	Press-Fit type	-	X	X	-	-	X
Threaded BB shell width	68mm	X	-	-	X	X	-
	70mm	X	-	-	X	X	-
Press-Fit BB shell width	86.5mm	-	X	X	-	-	X
Small ball bearing		X	X	X	X	-	-
Adapter	material	Aluminum	Resin	Resin	Aluminum	Aluminum	Resin
	finish	Anodized	-	-	Anodized	Anodized	-
Spacer	material	CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
	finish	CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
Average weight		65g	54g	69g	77g	92g	71g
Note							

Bottom Bracket

Series		DURA-ACE	DURA-ACE	105	105	TIAGRA	TIAGRA
Model no.		BB-7700	BB-7710	BB-5500	BB-5500	BB-ES51	BB-ES51
Spindle	Hollow pipe	X	X	X	X	X	X
	OCTALINK	X	X	X	X	X	X
	Square type	-	-	-	-	-	-
Axle length / shell width (mm)	109.5	68 (BC1.37)	X	X	-	-	-
		70 (M36)	X	-	X	-	-
	MM110.0	68 (BC1.37)	-	-	-	-	-
		70 (M36)	-	-	-	-	-
	LL113.0	68 (BC1.37)	-	-	-	-	-
		70 (M36)	-	-	-	-	-
	113	68 (BC1.37)	-	-	-	-	X
		70 (M36)	-	-	-	-	X
	118.5	68 (BC1.37)	-	-	-	X	-
		70 (M36)	-	-	-	X	-
	121	68 (BC1.37)	-	-	-	-	X
	Spindle	Material	Steel	Steel	Steel	Steel	Steel
Finish		Plated	Plated	Plated	Plated	Plated	Plated
Left hand adapter	Material	Aluminum	Aluminum	Aluminum	Aluminum	Resin	Resin
	Finish	Anodized	Anodized	Anodized	Anodized	-	-
Average weight		173g	244g	-	-	-	-
Note			For track	For double	For triple	For double	For triple

Bottom Bracket

Series		TOURNEY A070	TOURNEY A070	
Model no.		BB-UN26	BB-UN26	
Spindle	Hollow pipe	-	-	
	OCTALINK	-	-	
	Square type	X	X	
Axle length / shell width (mm)	109.5	68 (BC1.37)	-	
		70 (M36)	-	
	MM110.0	68 (BC1.37)	X	-
		70 (M36)	X	-
	LL113.0	68 (BC1.37)	-	X
		70 (M36)	-	X
	113	68 (BC1.37)	-	-
		70 (M36)	-	-
	118.5	68 (BC1.37)	-	-
		70 (M36)	-	-
	121	68 (BC1.37)	-	-
		70 (M36)	-	-
Spindle	Material	Steel	Steel	
	Finish	Plated	Plated	
Left hand adapter	Material	Resin	Resin	
	Finish	-	-	
Average weight		-	-	
Note		For double	For triple	

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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-6800
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-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		11-25T	11-28T	11-30T	12-25T	12-28T	11-23T
Group name		-	-	-	-	-	-
Combination *Titanium gear	11th	25*	28*	30*	25*	28*	23
	10th	23*	25*	27*	23*	25*	21
	9th	21*	23*	24*	21*	23*	19
	8th	19*	21*	21*	19*	21*	18
	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
1st	11	11	11	12	12	11	
Carbon Spider arm	QTY (pcs)	2	2	2	2	2	1
	Finish	-	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	-	-	-	-	-	1
	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		175g	193g	211g	189g	205g	212g
Note							

Series		ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	105
Model no.		CS-6800	CS-6800	CS-6800	CS-6800	CS-6800	CS-5800
Type		HG-EV	HG-EV	HG-EV	HG-EV	HG	HG-EV
Speeds		11-speed	11-speed	11-speed	11-speed	11-speed	11-speed
Compatible chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11
Combination name		11-25T	11-28T	11-32T	12-25T	14-28T	11-28T
Group name		-	-	-	-	-	-
Combination *Titanium gear	11th	25	28	32	25	28	28
	10th	23	25	28	23	25	25
	9th	21	23	25	21	23	23
	8th	19	21	22	19	21	21
	7th	17	19	20	18	20	19
	6th	16	17	18	17	19	17
	5th	15	15	16	16	18	15
	4th	14	14	14	15	17	14
	3rd	13	13	13	14	16	13
	2nd	12	12	12	13	15	12
1st	11	11	11	12	14	11	
Carbon Spider arm	QTY (pcs)	1	1	1	1	1	-
	Finish	-	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	1	1	1	1	1	1
	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	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Nickel plated
Average weight		232g	251g	292g	243g	300g	284g
Note							

Cassette Sprocket

Series	105	105	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.	CS-5800	CS-5800	CS-7900	CS-7900	CS-7900	CS-7900
Type	HG-EV	HG-EV	HG	HG	HG	HG
Speeds	11-speed	11-speed	10-speed	10-speed	10-speed	10-speed
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
Combination name	11-32T	12-25T	11-23T	11-25T	11-27T	11-28T
Group name	-	-	-	-	-	-
Combination *Titanium gear	11th	32	25	-	-	-
	10th	28	23	23	25	27
	9th	25	21	21	23	24
	8th	22	19	19	21	21
	7th	20	18	17	19	19
	6th	18	17	16	17	17
	5th	16	16	15	15	15
	4th	14	15	14	14	14
	3rd	13	14	13	13	13
	2nd	12	13	12	12	12
1st	11	12	11	11	11	11
Carbon Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	1	1	2	2	2
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Titanium gear	Finish	-	-	Titanium	Titanium	Titanium
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel	Aluminum	Aluminum	Aluminum
	Finish	Nickel plated	Nickel plated	Anodized	Anodized	Anodized
Average weight	320g	269g	163g	180g	184g	187g
Note						

Series	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.	CS-7900	CS-6700	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	12-27T	11-23T	11-25T	11-28T	12-23T	12-25T
Group name	-	-	-	-	-	-
Combination *Titanium gear	11th	-	-	-	-	-
	10th	27	23	25	28	23
	9th	24	21	23	24	21
	8th	21	19	21	21	19
	7th	19	17	19	19	18
	6th	17	16	17	17	17
	5th	16	15	15	15	16
	4th	15	14	14	14	15
	3rd	14	13	13	13	14
	2nd	13	12	12	12	13
1st	12	11	11	11	12	
Carbon Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	2	1	1	1	1
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Titanium gear	Finish	Titanium	-	-	-	-
Steel gear	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	189g	209g	229g	242g	225g	238g
Note						

Cassette Sprocket

Series	ULTEGRA	105	105	105	105	SHIMANO
Model no.	CS-6700	CS-5700	CS-5700	CS-5700	CS-5700	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 10-speed	HG 10-speed	HG 10-speed	HG-X 10-speed/ HG 10-speed/ CN-HG500
Combination name	12-30T	11-25T	11-28T	12-25T	12-27T	11-25T
Group name	-	-	-	-	-	-
Combination *Titanium gear	11th	-	-	-	-	-
	10th	30	25	28	25	27
	9th	27	23	24	23	24
	8th	24	21	21	21	21
	7th	21	19	19	19	19
	6th	19	17	17	17	17
	5th	17	15	15	16	16
	4th	15	14	14	15	15
	3rd	14	13	13	14	14
	2nd	13	12	12	13	13
Carbon Spider arm	1st	12	11	11	12	12
	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	1	1	1	1	1
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Titanium gear	Finish	-	-	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Aluminum	Steel	Steel	Steel	Steel
	Finish	Anodized	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Average weight	-	245g	255g	250g	258g	-
Note						

Series	SHIMANO	SHIMANO	SHIMANO	SORA	SORA	SORA
Model no.	CS-HG500-10	CS-HG500-10	CS-HG500-10	CS-HG50-9	CS-HG50-9	CS-HG50-9
Type	HG	HG	HG	HG	HG	HG
Speeds	10-speed	10-speed	10-speed	9-speed	9-speed	9-speed
Compatible chain	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 9-speed	HG 9-speed	HG 9-speed
Combination name	12-28T	11-32T	11-34T	11-30T	12-23T	12-25T
Group name	-	-	-	bQ	-	-
Combination *Titanium gear	11th	-	-	-	-	-
	10th	28	32	34	-	-
	9th	25	28	30	30	23
	8th	23	25	26	26	21
	7th	21	22	23	23	19
	6th	19	20	21	20	17
	5th	17	18	19	18	16
	4th	15	16	17	16	15
	3rd	14	14	15	14	14
	2nd	13	12	13	12	13
Carbon Spider arm	1st	12	11	11	12	12
	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						

Cassette Sprocket

Series		SORA	SORA	SORA	CLARIS	CLARIS	CLARIS
Model no.		CS-HG50-9	CS-HG50-9	CS-HG400-9	CS-HG50-8	CS-HG50-8	CS-HG50-8
Type		HG	HG	HG	HG	HG	HG
Speeds		9-speed	9-speed	9-speed	8-speed	8-speed	8-speed
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	CN-HG71	CN-HG71	CN-HG71
Combination name		13-25T	14-25T	11-25T	11-28T	11-30T	11-32T
Group name		-	G	G	bf	an	aw
Combination *Titanium gear	11th	-	-	-	-	-	-
	10th	-	-	-	-	-	-
	9th	25	25	25	-	-	-
	8th	23	23	23	28	30	32
	7th	21	21	21	24	26	28
	6th	19	19	19	21	23	24
	5th	17	18	17	19	20	21
	4th	16	17	15	17	17	18
	3rd	15	16	13	15	15	15
	2nd	14	15	12	13	13	13
Carbon Spider arm	1st	13	14	11	11	11	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	Nickel plated
Lock ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Average weight		-	-	-	-	-	-
Note				NEW gear combination			

Series		SHIMANO	CLARIS	SHIMANO	CLARIS	TOURNEY A070	TOURNEY A070
Model no.		CS-HG50-8	CS-HG50-8	CS-HG50-8	CS-HG50-8	CS-HG41-7	CS-HG20-7
Type		HG	HG	HG	HG	HG	HG
Speeds		8-speed	8-speed	8-speed	8-speed	7-speed	7-speed
Compatible chain		HG	HG	HG	HG	IG/HG	IG/HG
Combination name		12-23T	12-25T	13-23T	13-26T	11-28T	12-28T
Group name		U	W	T	V	ac	E
Combination *Titanium gear	11th	-	-	-	-	-	-
	10th	-	-	-	-	-	-
	9th	-	-	-	-	-	-
	8th	23	25	23	26	-	-
	7th	21	23	21	23	28	28
	6th	19	21	19	21	24	24
	5th	17	19	17	19	21	21
	4th	15	17	16	17	18	18
	3rd	14	15	15	15	15	16
	2nd	13	13	14	14	13	14
Carbon Spider arm	1st	12	12	13	13	11	12
	QTY (pcs)	-	-	-	-	-	-
Aluminum Spider arm	Finish	-	-	-	-	-	-
	QTY (pcs)	-	-	-	-	-	-
Titanium gear	Finish	-	-	-	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Brown&Black
Lock ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Manganese phosphate	Zinc phosphate
Average weight		-	-	-	-	-	-
Note							

Freehub

Series		DURA-ACE	ULTEGRA	105	SHIMANO	SHIMANO	SHIMANO	
Model no.		FH-9000	FH-6800	FH-5800	FH-CX75	FH-RS505	FH-RS400	
Color	1	Series color	Series color	Black	Series color	Black	Black	
	2	-	-	Silver	-	-	Silver	
Brake Type		Rim	Rim	Rim	Disc	Disc	Rim	
Rear speeds		11/10*	11/10*	11/10*	11/10*	11 / 10	10 / 11	
O.L.D. (mm)		130	130	130	135	135	130	
Spoke hole	24H	X	-	-	-	-	-	
	28H	X	-	-	X	X	X	
	32H	X	X	X	-	X	X	
	36H	X	X	X	-	X	X	
Axle	Fixing method		QR	QR	QR	QR	QR	
	QR skewer length (mm)	161	-	-	-	-	-	-
		163	X	X	X	-	-	X
		166	-	-	-	-	-	-
		168	X	X	X	X	X	X
		170	-	-	-	-	-	-
	173	-	-	-	X	X	-	
	Length (mm)		141	141	141	146	146	141
	Diameter (mm)		14	14	14	14	10	10
	Thru Axle Length x Inner Diameter (mm)	135x10	-	-	-	-	-	-
		135x12	-	-	-	-	-	-
142x12		-	-	-	-	-	-	
148x12		-	-	-	-	-	-	
150x12		-	-	-	-	-	-	
Flange distance (mm)		56.9 **	56.9	56.9	55.65	55.65	56.9	
Offset (mm)		9.75 **	9.7	9.75	7.5	7.4	9.75	
P.C.D. left / right (mm)		44 / 45	44 / 45	44 / 45	44 / 45	44 / 45	44 / 45	
Flange diameter left / right (mm)		52.8/53.8	52.8/53.8	52.8/53.8	52.8/53.8	52.8 / 53.8	52.8 / 53.8	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact	
	Free hub body	Contact	Contact	Contact	Contact	Contact	Contact	
Internal grease sleeve		X	X	X	X	X	X	
Digital adjustment system		X	X	-	-	-	-	
Bearing	Stainless ball	X	-	-	-	-	-	
	Cup	CBN	Polish	Polish	Polish	Polish	Polish	
	Cone	CBN	CBN	CBN	CBN	CBN	CBN	
Disc mount	Center lock	-	-	-	X	X	-	
	External serration rotor lock ring	-	-	-	-	-	-	
	Center lock mount cover option	-	-	-	X	-	-	
	6-bolt	-	-	-	-	-	-	
Free hub body	Material	Titanium	Steel	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Aluminum	Aluminum	Steel	Aluminum	Steel	Steel	
	Finish	Anodized	Anodized	w/Plated Nut	Anodized	-	-	
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted	
	Color	9000SLV	Black	Black	Gray	Black	Black	
QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted	
QR nut	Material	Aluminum	Resin	Resin	Resin	Resin	Resin	
	Finish	Anodized	Black	Black	Black	Black	Black	
Radial Lacing		-	-	-	-	-	-	
Average weight (w/o axle and lock ring)		247g	330g	368g	325g	-	-	
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. For Disc Brake/ Center lock mount		* Can be used for 10-speed with an additional spacer.	

Freehub

Series		SHIMANO	CLARIS	TOURNEY A070	
Model no.		FH-RS300	FH-2400	FH-RM30-7-QR	
Color	1	Silver	Series color	Silver	
	2	Black	Black	-	
Brake Type		Rim	Rim	Rim	
Rear speeds		8/9/10-speed	8/9-speed	7	
O.L.D. (mm)		130	130	130	
Spoke hole	24H	-	-	-	
	28H	X	-	-	
	32H	X	X	X	
	36H	X	X	-	
Axle	Fixing method		QR	QR	QR
	QR skewer length (mm)	161	-	-	X
		163	X	X	-
		166	-	-	-
		168	X	X	-
		170	-	-	-
	Length (mm)		141	141	141
	Diameter (mm)		10	10	10
	Thru Axle Length x Inner Diameter (mm)	135x10	-	-	-
		135x12	-	-	-
		142x12	-	-	-
148x12		-	-	-	
150x12		-	-	-	
Flange distance (mm)		57.9	57.9	59.2	
Offset (mm)		8.4	8.4	5.5	
P.C.D. left / right (mm)		45	45	45	
Flange diameter left / right (mm)		53.8	53.8	53.8	
Seal	Hub	Contact	Contact	-	
	Free hub body	Contact	Contact	-	
Internal grease sleeve		X	X	-	
Digital adjustment system		-	-	-	
Bearing	Stainless ball	-	-	-	
	Cup	-	-	-	
	Cone	-	-	-	
Disc mount	Center lock	-	-	-	
	External serration rotor lock ring	-	-	-	
	Center lock mount cover option	-	-	-	
	6-bolt	-	-	-	
Free hub body	Material	Steel	Steel	Steel	
	Finish	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum/2pcs	
	Finish	Anodized	Anodized	Shiny	
Axle	Material	Steel	Steel	Steel	
	Finish	-	-	-	
QR lever	Material	Aluminum	Aluminum	Steel	
	Finish	Painted	Painted	Plated	
	Color	Black	Black	Black	
QR housing	Material	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	
QR nut	Material	Resin	Resin	Resin	
	Finish	Black	Black	Black	
Radial Lacing		-	-	-	
Average weight (w/o axle and lock ring)		-	-	-	
Note			QR Lever Housing Steel		

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

Front Hub

Series		DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	105	SHIMANO	
Model no.		HB-9000	HB-7710	HB-7600	HB-6800	HB-5800	HB-CX75	
Color	1	Series color	Silver	Silver	Series color	Black	Series color	
	2	-	-	-	-	Silver	-	
Brake Type		Rim	Rim	Rim	Rim	Rim	Disc	
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	-	
	36H	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	14
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-	-
		100x15	-	-	-	-	-	-
110x15		-	-	-	-	-	-	
110x20		-	-	-	-	-	-	
Flange distance (mm)		74.0	74.0 (Front) 72.5 (Single Thread, Rear) 67.0 (Double Thread, Rear)	72.3 (Front) 75.5 (Single Thread, Rear) 65.0 (Double Thread, Rear)	71.6	71.6	59.6	
Offset (mm)		0	0(Front)/2.75 (Single Thread, Rear) / 0 (Double Thread, Rear)	0(Front)/5.25(Rear)	0	0	6	
P.C.D. Left/Right (mm)		38	38 (Front) 44 (Rear)	67	40	38	44(left) / 44(right)	
Flange diameter (mm)		48.4	46 (Front) 52 (Rear)	75	50.4	48.4	52.8(left) / 52.8(right)	
Seal		Labyrinth and Contact	Dust Cap	Dust Cap	Labyrinth and Contact	Labyrinth and Contact	Labyrinth and Contact	
Internal grease sleeve		X	-	-	X	X	X	
Digital adjustment system		X	-	-	X	-	-	
Bearing	Stainless ball	X	X	X	-	-	-	
	Cup	Super Finishing **	Polish	CBN/Polish	Polish	Polish	Polish	
	Cone	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	
Disc mount	Center lock	-	-	-	-	-	X	
	External serration rotor lock ring	-	-	-	-	-	-	
	Center lock mount cover option	-	-	-	-	-	-	
	6-bolt	-	-	-	-	-	-	
	140 mm Disc rotor compatible	-	-	-	-	-	X	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Aluminum	Steel	Steel	Aluminum	Steel	Aluminum	
	Finish	Anodized	Plating	Plating	Anodized	w/Plated Nut	Anodized	
QR lever	Material	Aluminum	-	-	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	-	-	Anodized	Anodized	Anodized	
	Color	Silver	-	-	Gray	Black	Gray	
QR housing	Material	Anodized	-	-	Aluminum	Aluminum	Aluminum	
	Finish	Silver	-	-	Anodized	Anodized	Anodized	
QR nut	Material	Anodized	-	-	Resin	Resin	Resin	
	Finish	Silver	-	-	Black	Black	Black	
Radial lacing		X	-	-	X	X	-	
Average weight (w/o axle and lock ring)		120g	298g (rear w / lock ring) 203g (front)	313g (rear LF w / lock ring) 241g (front LF)	158g	155g	166g	
Note		* Aero spoke hole available(18H/24H) **Super Finishing	For Track *Dishing Distance R(Single Thread):2.75mm (Double Thread):0				For Disc brake/ Center lock mount 140mm Disc Rotor Compatible	

Front Hub

Series		SHIMANO	SHIMANO	SHIMANO	CLARIS	TOURNEY A070	
Model no.		HB-RS505	HB-RS400	HB-RS300	HB-2400	HB-RM40	
Color	1	Black	Black	Silver	Series color	Black	
	2	-	Silver	Black	Black	Silver	
Brake Type		Disc	Rim	Rim	Rim	Rim	
O.L.D. (mm)		100	100	100	100	100	
Spoke hole	24H	-	-	-	-	-	
	28H	X	X	X	-	-	
	32H	X	X	X	X	X	
	36H	X	X	X	X	X	
Axle	Fixing method		QR	QR	QR	QR	
	QR skewer length (mm)	129	-	-	X	X	
		133	X	X	X	X	
	Length (mm)		108	108	108 (M9)	108 (M9)	108 (M9)
	Diameter (mm)		9	9	9	9	9
	Thru Axle Length x Inner Diameter (mm)	100x8		-	-	-	-
		100x15		-	-	-	-
		110x15		-	-	-	-
110x20		-	-	-	-		
Flange distance (mm)		59.6	71.6	71.6	71.6	71.6	
Offset (mm)		6	0	0	0	0	
P.C.D. Left/Right (mm)		44(left) / 44(right)	38	38	38	38	
Flange diameter (mm)		52.8(left) / 52.8(right)	48.4	48.4	48.4	46	
Seal		Contact	Contact	Contact	Labyrinth and Contact	-	
Internal grease sleeve		X	X	-	-	-	
Digital adjustment system		-	-	-	-	-	
Bearing	Stainless ball	-	-	-	-	-	
	Cup	Polish	Polish	-	Polish	-	
	Cone	CBN	CBN	-	-	-	
Disc mount	Center lock	X	-	-	-	-	
	External serration rotor lock ring	-	-	-	-	-	
	Center lock mount cover option	-	-	-	-	-	
	6-bolt	-	-	-	-	-	
	140 mm Disc rotor compatible	X	-	-	-	-	
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	Steel	
	Finish	Painted	Painted	Painted	Painted	Plated	
	Color	Black	Black	Black	Black	Silver	
QR housing	Material	Aluminum	Aluminum	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Plated	Plated	
QR nut	Material	Resin	Resin	Resin	Resin	Resin	
	Finish	Black	Black	Black	Black	Black	
Radial lacing		-	X	X	X	-	
Average weight (w/o axle and lock ring)		185g	-	-	-	-	
Note					QR Lever Housing Steel		

ST

ST

SL

BL

BR

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

FH

HB

WH

HP

Wheel

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	-
	166	-	-	-	-	-
	168	-	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)	100x8	-	-	-	-	-
	100x12	-	-	-	-	-
	100x15	-	-	-	-	-
	110x20	-	-	-	-	-
	135x10	-	-	-	-	-
	135x12	-	-	-	-	-
	142x12	-	-	-	-	-
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	-	-	-	-	-
	140mm Disc rotor compatible	-	-	-	-	-
Optbal (2:1)	-	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)	832g	1019g	666g	830g	674g	834g
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

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.	WH-R9100-C40	WH-R9100-C40	WH-R9100-C24	WH-R9100-C24	WH-R9100-C60	WH-R9170-C60
SPEC	TU-F	TU-R	CL-F	CL-R	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	Rim brake	Rim brake	Rim brake	Rim brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds	-	10*/11	-	10*/11	-	10*/11
O.L.D. (mm)	100	130	100	130	100	142
Wheel Size	700C	700C	622x15C	622x15C	622x17C	622x17C
Rim	Height (mm)	37	37	21	24	60
	Width (mm)	28	28	20.8	20.8	24
	Rim joint	-	-	Sleeved	Sleeved	-
	Brazed reinforcement	-	-	-	-	-
Spokes	Number	16	21	16	20	24
	Bladed	X	X	X	X	X
	Butted	X	X	X	X	X
Axle Fixing method	QR	QR	QR	QR	12mm E-thru	12mm E-thru
QR skewer length (mm)	129	-	-	-	-	-
	133	X	-	X	-	-
	161	-	-	-	-	-
	163	-	X	-	X	-
	166	-	-	-	-	-
	168	-	X	-	X	-
	170	-	-	-	-	-
173	-	-	-	-	-	
Axle Length (mm)	108	141	108	141	100	142
Axle Diameter (mm)	15	15	15	15	15	15
Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-
	100x12	-	-	-	-	X
	100x15	-	-	-	-	-
	110x20	-	-	-	-	-
	135x10	-	-	-	-	-
	135x12	-	-	-	-	-
	142x12	-	-	-	-	-
150x12	-	-	-	-	-	
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
	Center lock mount cover option	-	-	-	-	-
	140mm Disc rotor compatible	-	-	-	-	X
Optbal (2:1)	-	X	-	-	-	X
D2 rim	-	-	-	-	X	X
Offset rim	-	X	-	X	-	-
Digital adjustment system	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	Tubular	Tubular	Clincher	Clincher	Tubeless
	Recommended size	23-28"	23-28"	23-622	23-622	23-622
Rim	Material	Carbon	Carbon	Carbon+AL	Carbon+AL	Carbon
	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	Black	Black	Black	Black	Silver
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	-
	Finish	Anodized	Anodized	Anodized	Anodized	-
QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	-
	Finish	Anodized	Anodized	Anodized	Anodized	-
QR nut	Material	Aluminum	Aluminum	Aluminum	Aluminum	-
	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)	637g	747g	618g	835g	745g	902g
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

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.		WH-R9170-C60	WH-R9170-C60	WH-R9170-C40	WH-R9170-C40	WH-R9170-C40	WH-R9170-C40
SPEC		TU-F12	TU-R12	TL-F12	TL-R12	TU-F12	TU-R12
Color	1	Series color	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		700C	700C	622x17C	622x17C	700C	700C
Rim	Height (mm)	60	60	37	37	37	37
	Width (mm)	28	28	24	24	28	28
	Rim joint	-	-	-	-	-	-
	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	12mm E-thru	12mm E-thru
QR skewer length (mm)	129	-	-	-	-	-	-
	133	-	-	-	-	-	-
	161	-	-	-	-	-	-
	163	-	-	-	-	-	-
	166	-	-	-	-	-	-
	168	-	-	-	-	-	-
	170	-	-	-	-	-	-
173	-	-	-	-	-	-	
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)	100x8	-	-	-	-	-	-
	100x12	X	-	X	-	X	-
	100x15	-	-	-	-	-	-
	110x20	-	-	-	-	-	-
	135x10	-	-	-	-	-	-
	135x12	-	-	-	-	-	-
	142x12	-	X	-	X	-	X
150x12	-	-	-	-	-	-	
Bearing	Stainless ball	X	X	X	X	X	X
	Cup	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
Disc mount	Center lock	X	X	X	X	X	X
	Center lock mount cover option	-	-	-	-	-	-
	140mm Disc rotor compatible	X	-	X	-	X	-
Optbal (2:1)		-	X	-	X	-	X
D2 rim		X	X	-	-	-	-
Offset rim		-	-	-	X	-	X
Digital adjustment system		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	Freehub body	-	Contact	-	Contact	-	Contact
Internal grease sleeve		-	-	-	-	-	-
Requires rim tape		-	-	X	X	-	-
Tire	Type	Tubular	Tubular	Tubeless	Tubeless	Tubular	Tubular
	Recommended size	23-28"	23-28"	23-622	23-622	23-28"	23-28"
Rim	Material	Carbon	Carbon	Carbon	Carbon	Carbon	Carbon
	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	Silver	Silver	Black	Black	Black	Black
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	-	-	-	-	-	-
	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	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)		671g	829g	707g	856g	626g	774g
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

Series	ULTEGRA	ULTEGRA	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-6800	WH-6800	WH-RS81-C24	WH-RS81-C24	WH-RS81-C24	WH-RS81-C24
SPEC	TL-F	TL-R	CL-F	CL-R	TL-F	TL-R
Color	1	Series color	Series color	Black	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	622x15C	622x15C	622x15C	622x15C	622x15C	622x15C
Rim	Height (mm)	23	23	21	23	21
	Width (mm)	20.8	20.8	20.8	20.8	20.8
	Rim joint	Welded	Welded	Welded	Welded	Welded
	Brazed reinforcement	X	X	-	-	-
Spokes	Number	16	20	16	20	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	-
	166	-	-	-	-	-
	168	-	X	-	X	-
	170	-	-	-	-	-
	173	-	-	-	-	-
Axle Length (mm)	108	141	108	141	108	141
Axle Diameter (mm)	14	14	14	14	14	14
Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-
	100x12	-	-	-	-	-
	100x15	-	-	-	-	-
	110x20	-	-	-	-	-
	135x10	-	-	-	-	-
	135x12	-	-	-	-	-
	142x12	-	-	-	-	-
	150x12	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish
	Cone	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish
Disc mount	Center lock	-	-	-	-	-
	Center lock mount cover option	-	-	-	-	-
	140mm Disc rotor compatible	-	-	-	-	-
Optbal (2:1)	-	-	-	-	-	-
D2 rim	-	-	-	-	-	-
Offset rim	-	X	-	X	-	X
Digital adjustment system	X	X	X	X	X	X
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	Freehub body	-	Contact	-	Contact	-
Internal grease sleeve	X	X	X	X	X	X
Requires rim tape	-	-	X	X	-	-
Tire	Type	Tubeless	Tubeless	Clincher	Clincher	Tubeless
	Recommended size	23-622 - 28-622	23-622 - 28-622	23-622 - 28-622	23-622 - 28-622	23-622 - 28-622
Rim	Material	Aluminum	Aluminum	CFRP / Aluminum	CFRP / Aluminum	CFRP / Aluminum
	Finish	Standard	Standard	CFRP	CFRP	CFRP
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	Gray	Gray	Black	Black	Black
Freehub body	Material	-	Steel	-	Steel	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized
Axle	Material	Aluminium	Aluminium	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	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)	705g	944g	608g	871g	662g	901g
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

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

Wheel

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-RS81-C35	WH-RS81-C35	WH-RS81-C35	WH-RS81-C35	WH-RS81-C50	WH-RS81-C50
SPEC	CL-F	CL-R	TL-F	TL-R	CL-F	CL-R
Color	1	Black	Black	Black	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	622x15C	622x15C	622x15C	622x15C	622x17C	622x17C
Rim	Height (mm)	35	35	35	35	50
	Width (mm)	20.8	20.8	20.8	20.8	22.4
	Rim joint	Welded	Welded	Welded	Welded	Sleeved
	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	-
	166	-	-	-	-	-
	168	-	X	-	X	-
	170	-	-	-	-	-
173	-	-	-	-	-	
Axle Length (mm)	108	141	108	141	108	141
Axle Diameter (mm)	14	14	14	14	14	14
Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-
	100x12	-	-	-	-	-
	100x15	-	-	-	-	-
	110x20	-	-	-	-	-
	135x10	-	-	-	-	-
	135x12	-	-	-	-	-
	142x12	-	-	-	-	-
150x12	-	-	-	-	-	
Bearing	Stainless ball	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish
	Cone	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish
Disc mount	Center lock	-	-	-	-	-
	Center lock mount cover option	-	-	-	-	-
	140mm Disc rotor compatible	-	-	-	-	-
Optbal (2:1)	-	X	-	X	-	X
D2 rim	-	-	-	-	X	X
Offset rim	-	-	-	-	-	-
Digital adjustment system	X	X	X	X	X	X
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	Freehub body	-	Contact	-	Contact	-
Internal grease sleeve	X	X	X	X	X	X
Requires rim tape	X	X	-	-	X	X
Tire	Type	Clincher	Clincher	Tubeless	Tubeless	Clincher **
	Recommended size	23-622 - 28-622	23-622 - 28-622	23-622 - 28-622	23-622 - 28-622	23-622 - 28-622
Rim	Material	CFRP / Aluminum	CFRP / Aluminum	CFRP / Aluminum	CFRP / Aluminum	CFRP / Aluminum
	Finish	CFRP	CFRP	CFRP	CFRP	CFRP
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	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	Buffed / 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	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)	733g	910g	759g	963g	839g	1062g
Note		*The adapter is needed to use 10-speed CS		*The adapter is needed to use 10-speed CS	** Max tire pressure 8 bar	*The adapter is needed to use 10-speed CS ** Max tire pressure 8 bar

Wheel

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-RS610	WH-RS610	WH-RS330	WH-RS330	WH-RS21	WH-RS21
SPEC	TL-F	TL-R	CL-F	CL-R	CL-F	CL-R
Color	1	Black	Black	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)	22	24	30	30	22
	Width (mm)	20.8	20.8	20.8	20.8	20.8
	Rim joint	Welded	Welded	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	-	-	-	-	-
Spokes	Number	16	20	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	-
	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)	100x8	-	-	-	-	-
	100x12	-	-	-	-	-
	100x15	-	-	-	-	-
	110x20	-	-	-	-	-
	135x10	-	-	-	-	-
	135x12	-	-	-	-	-
	142x12	-	-	-	-	-
150x12	-	-	-	-	-	
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	-	-	-	-	-
	140mm Disc rotor compatible	-	-	-	-	-
Optbal (2:1)	-	-	-	X	-	-
D2 rim	-	-	-	-	-	-
Offset rim	-	X	-	X	-	X
Digital adjustment system	-	-	-	-	-	-
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 - 28-622	23-622 - 28-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black	Black	Painted	Painted	Black: 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	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	w/Plated Nut	w/Plated Nut	-	-	-
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)	774g	1055g	875g	1176g	777g	1062g
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

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

Wheel

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-RS11	WH-RS11	WH-RS010	WH-RS010	WH-R501-30	WH-R501-30
SPEC	CL-F	CL-R	CL-F	CL-F	CL-F	CL-R
Color	1	Black	Black	Black	Black	Black
	2	Silver	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	-	10*/11	-	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	30
	Width (mm)	20.8	20.8	20.8	20.8	20.8
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	-	-	-	-	-
Spokes	Number	16	20	20	24	20
	Bladed	X	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	-	-	-	-	X
	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)	100x8	-	-	-	-	-
	100x12	-	-	-	-	-
	100x15	-	-	-	-	-
	110x20	-	-	-	-	-
	135x10	-	-	-	-	-
	135x12	-	-	-	-	-
	142x12	-	-	-	-	-
150x12	-	-	-	-	-	
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	-	-	-	-	-
	140mm Disc rotor compatible	-	-	-	-	-
Optbal (2:1)	-	-	-	-	-	-
D2 rim	-	-	-	-	-	-
Offset rim	-	X	-	X	-	-
Digital adjustment system	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	Freehub body	-	Contact	-	Contact	-
Internal grease sleeve	-	X	-	-	-	-
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	Black: Anodized Silver: Anodized White: Painted	Black: Anodized Silver: Anodized White: Painted	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Color	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Brass	Brass	Brass
	Color	Black	Black	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	Anodized	Anodized	Painted	Painted	Painted
QR housing	Material	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Anodized	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)	816g	1087g	818g	1102g	893g	1143g
Note		*The adapter is needed to use 10-speed CS		*The adapter is needed to use 10-speed CS		

Wheel

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-R501-A	WH-R501-A	WH-R501	WH-R501	WH-RX830	WH-RX830
SPEC	CL-F	CL-R	CL-F	CL-R	TL-F	TL-R
Color	1	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	-
Front / Rear	Front	Rear	Front	Rear	Front	Rear
Brake Type	Rim brake	Rim brake	Rim brake	Rim brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds	-	8/9/10	-	8/9/10	-	10*/11
O.L.D. (mm)	100	130	100	130	100	135
Wheel Size	622x15C	622x15C	622x15C	622x15C	622x17C	622x17C
Rim	Height (mm)	24	24	24	24	35
	Width (mm)	20.8	20.8	20.8	20.8	23
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved	Welded
	Brazed reinforcement	-	-	-	-	-
Spokes	Number	20	24	20	24	24
	Bladed	X	X	-	-	X
	Butted	-	-	-	-	X
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	-	-	-	-	-	X
Axle Length (mm)	108	141	108	141	108	146
Axle Diameter (mm)	9	10	9	10	14	14
Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-
	100x12	-	-	-	-	-
	100x15	-	-	-	-	-
	110x20	-	-	-	-	-
	135x10	-	-	-	-	-
	135x12	-	-	-	-	-
	142x12	-	-	-	-	-
150x12	-	-	-	-	-	
Bearing	Stainless ball	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN/Polish
Disc mount	Center lock	-	-	-	-	X
	Center lock mount cover option	-	-	-	-	-
	140mm Disc rotor compatible	-	-	-	-	X
Optbal (2:1)	-	-	-	-	-	-
D2 rim	-	-	-	-	-	-
Offset rim	-	-	-	-	-	-
Digital adjustment system	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	Freehub body	-	Contact	-	Contact	-
Internal grease sleeve	-	-	-	-	X	X
Requires rim tape	X	X	X	X	-	-
Tire	Type	Clincher	Clincher	Clincher	Clincher	Tubeless
	Recommended size	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	25-622 - 38-622
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Carbon+AL
	Finish	Anodized	Anodized	Anodized	Anodized	painting
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Color	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Aluminum
	Color	Silver	Silver	Silver	Silver	Black
Freehub body	Material	-	Steel	-	Steel	Steel
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Aluminum
	Finish	-	-	-	-	Anodized
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Anodized
QR housing	Material	Steel	Steel	Steel	Steel	Aluminum
	Finish	Painted	Painted	Painted	Painted	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)	820g	1069g	820g	1069g	829g	993g
Note						*The adapter is needed to use 10-speed CS

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

Wheel

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-RX010	WH-RX010	WH-RX31-CL-F12	WH-RX31-CL-R12	WH-RX31-CL-F	WH-RX31-CL-R
SPEC		CL-F	CL-R	CL-F12	CL-R12	CL-F	CL-R
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	135	100	142	100	135
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	28	28	24	24	24	24
	Bladed	-	-	-	-	-	-
	Butted	-	-	-	-	-	-
Axle Fixing method		QR	QR	12mm E-thru	12mm E-thru	QR	QR
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	108	146
Axle Diameter (mm)		10	10	15	15	15	15
Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-	-
	100x12	-	-	X	-	-	-
	100x15	-	-	-	-	-	-
	110x20	-	-	-	-	-	-
	135x10	-	-	-	-	-	-
	135x12	-	-	-	-	-	-
	142x12	-	-	-	X	-	-
150x12	-	-	-	-	-	-	
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	-	-	-	-	-	-
	140mm Disc rotor compatible	X	-	X	-	X	-
Optbal (2:1)		-	-	-	-	-	
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
Requires rim tape		X	X	X	X	X	X
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size	25-622 - 38-622	25-622 - 38-622	25-622 - 38-622	25-622 - 38-622	25-622 - 38-622	25-622 - 38-622
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black:Anodized / White:Painting	Black:Anodized / White:Painting	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Color	Black	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Aluminum	Aluminum	Aluminum	Aluminum
	Color	Silver	Silver	Black	Black	Black	Black
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	Steel	Steel	Aluminum	Aluminum
	Finish	-	-	-	-	Anodized	Anodized
QR lever	Material	Aluminum	Aluminum	-	-	Aluminum	Aluminum
	Finish	Painted	Painted	-	-	Anodized	Anodized
QR housing	Material	Steel	Steel	-	-	Aluminum	Aluminum
	Finish	Painted	Painted	-	-	Anodized	Anodized
QR nut	Material	Resin	Resin	-	-	Resin	Resin
	Color	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	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)		982g	1177g	873g	1072g	899g	1093g
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

Series		SHIMANO	SHIMANO
Model no.		WH-RX05	WH-RX05
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		-	8/9/10*
O.L.D. (mm)		100	135
Wheel Size		622x17C	622x17C
Rim	Height (mm)	24	24
	Width (mm)	22.4	22.4
	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)	100x8	-	-
	100x12	-	-
	100x15	-	-
	110x20	-	-
	135x10	-	-
	135x12	-	-
	142x12	-	-
150x12	-	-	
Bearing	Stainless ball	-	-
	Cup	Polish	Polish
	Cone	CBN finish	CBN finish
Disc mount	Center lock	X	X
	Center lock mount cover option	-	-
	140mm Disc rotor compatible	X	-
Optbal (2:1)		-	-
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)		958g	1142g
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		101g
Note		

ST

ST

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URBAN SPORT

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Shift/Brake Lever (Hydraulic disc brake)

Series		METREA	METREA	
Model no.		ST-U5060-L	ST-U5060-R	
Color	1	Series color	Series color	
	2	-	-	
Shifter type		Dual Control Lever	Dual Control Lever	
Shift lever specifications	Front speeds		2	-
	Rear speeds		-	11
	2/3 mode converter		-	-
	Max. multiple shifts (Main lever/ rear)		-	2
	Compatible RD type		-	Road 11-speed RD
	I-spec compatible		-	-
	SL position adjust		-	-
	Release function	Multi release	-	-
		Instant release	-	-
		2-Way release	-	-
	SL cable adjust		-	-
	Optical Gear Display	with	-	-
		with (removable)	-	-
		without	X	X
	Multi-Bearing construction		-	-
	SL outer casing		SP41	SP41
	SL cable	Polymer-coated cable	-	-
		OPTISLICK cable	X	X
		SIL-TEC cable	-	-
Stainless		-	-	
Steel		-	-	
Brake lever specifications	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	Toolless	-
		Tool	X	X
	Funnel bleeding		X	X
Free stroke adjust		-	-	
Servo wave mechanism		-	-	
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
Stainless clamp bolt		X	X	
Average weight		-	-	
Note		Need 10mm spanner to fix the clamp bolt	Need 10mm 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 technology pad compatible caliper		-
Pad	Standard 1	K025-R
	Standard 2	-
	Option 1	-
	Option 2	-
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		161g/pc
Note		

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Brake Lever (Hydraulic disc brake)

Series		METREA	METREA	METREA
Model no.		BL-U5010-L	BL-U5000-L	BL-U5000-R
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		-	-	-
Servo wave mechanism		-	-	-
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		-	132.3g/pc	132.3g/pc
Note		Use with ST-U5060-R Need 10mm spanner to fix the clamp bolt		

Shift Lever

Series		METREA	METREA
Model no.		SL-U5000-L	SL-U5000-R
Color	1	Series color	Series color
	2	-	-
Shifter type		RAPIDFIRE Plus	RAPIDFIRE Plus
Front speeds		2	-
Rear speeds		-	11
Compatible RD Type		-	Road 11-speed RD
SL position adjust		-	-
SL cable adjust		X	X
Max. multiple shifts (Main lever/ rear)		-	4
Release function	Multi release	X	X**
	Instant release	X	X
	2-Way release	X	X
Optical Gear Display	with	-	-
	with (removable)	-	-
	without	X	X
Multi-Bearing construction		2	2
SL 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	-	-
SL cable	Material	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK
Recommended SL outer casing		OT-SP41	OT-SP41
Average weight		220g/pair	220g/pair
Note		*I-spec II	*I-spec II **pull:shingle, Push:double

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)		4arms	4arms
Chain ring combination		46-32T	42T
Q-factor		158	158
Crank arm length (mm)	165.0	-	-
	167.5	-	-
	170.0	X	X
	172.5	-	-
	175.0	X	X
	177.5	-	-
Optional chain guard	With chain guard	X	X
	Without chain guard	-	-
Crank arm fixing bolt	With	X	X
	Without	-	-
HOLLOWTECH II technology		-	-
2-piece crank construction		X	X
HOLLOWTECH technology		-	-
OCTALINK technology		-	-
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)		1036g	912g
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	-
Braze-On		X	
Cable adjust		-	
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		-	
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/ bolt)		94g	
Note			

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Rear Derailleur

Series		METREA
Model no.		RD-U5000
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 retainer	Steel
	Sunken type pulley bolt	X
Bracket	Material	-
	Finish	-
Bracket mount bolt	Hollow axle	-
	Material	SUS
Bracket pivot bolt	Finish	-
	Hollow axle	-
	Material	-
Bracket body	Finish	-
	Material	Aluminum
Plate axle	Finish	Painted
	Material	Steel
Plate body	Finish	Plated
	Material	Aluminum
Outer link	Finish	Painted
	Material	Aluminum
Inner link	Finish	Painted
	Material	Steel
Outer plate	Finish	Painted
	Material	Steel
Inner plate	Finish	Painted
	Material	Steel
Average weight		280.5g
Note		

Disc Rotor

Series		METREA
Model no.		SM-RT500-SS
CENTER LOCK		X
6-bolt (P.C.D. 44mm)		-
ICE TECHNOLOGIES		X
FREEZA (Radiator fin)		-
Outside diameter	203mm	-
	180mm	-
	160mm	-
	140mm	X
Alloy lock ring		X
Adapter	Material	Allminum
	Finish	Painted
Rotor	Material	Stainless steel/ Aluminum/ Stainless steel
	Finish	Polished
Pad compatibility	Metal	X
	Resin	X
Average weight* *W/O lock ring		102.9g
Note		

Wheel

Series		METREA	METREA	METREA	METREA	
Model no.		WH-U5000-CL-F	WH-U5000-CL-R	WH-U5000-CL-F12	WH-U5000-CL-R12	
Color	1	Series color	Series color	Series color	Series color	
	2	-	-	-	-	
Front / Rear		-	-	-	-	
Brake Type		Disc brake	Disc brake	Disc brake	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	40	
	Width (mm)	23	23	23	23	
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved	
	Brazed reinforcement	-	-	-	-	
Spokes	Number	24	24	24	24	
	Bladed	X	X	X	X	
	Butted	X	X	X	X	
Axle	Fixing method		QR	QR	E-thru	E-thru
	QR skewer length (mm)	129	-	-	-	-
		133	X	-	X	-
		161	-	-	-	-
		163	-	-	-	-
		166	-	-	-	-
		168	-	X	-	X
		170	-	-	-	-
	173	-	X	-	X	
	Length (mm)		108	146	100	142
	Diameter (mm)		9	10	12	12
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-
		100x15	-	-	-	-
		110x20	-	-	X	-
		135x10	-	-	-	-
135x12		-	-	-	-	
142x12		-	-	-	X	
150x12	-	-	-	-		
Bearing	Stainless ball		-	-	-	-
	Cup		Polish	Polish	Polish	Polish
	Cone		CBN finish	CBN finish	CBN finish	CBN finish
Disc mount	Center lock		X	X	X	X
	Center lock mount cover option		-	-	-	-
	140mm Disc rotor compatible		X	-	X	-
Optbal (2:1)		-	-	-	-	
D2 rim		-	-	-	-	
Offset rim		-	-	-	-	
Digital adjustment system		-	-	-	-	
Seal	Hub		Contact	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	Clincher
	Recommended size		25-622	25-622	25-622	25-622
			-	-	-	-
		38-622	38-622	38-622	38-622	
Rim	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized
Spoke	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Polished	Polished	Polished	Polished
Nipple	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized
Freehub body	Material		-	Steel	-	Steel
	Finish		-	-	-	-
Hub shell	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized
Axle	Material		Steel	Steel	Steel	Steel
	Finish		-	-	-	-
QR lever	Material		Aluminum	Aluminum	-	-
	Finish		Anodized	Anodized	-	-
QR housing	Material		Aluminum	Aluminum	-	-
	Finish		Anodized	Anodized	-	-
QR nut	Material		Resin	Resin	-	-
	Finish		Black	Black	-	-
Compatible Spoke protector		-	CP-W122 (11s and 10s)	-	CP-W122 (11s and 10s)	
Reflector	JIS/CPSC		CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS		CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN		CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)		1093g	1287g			
Note						

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GENERAL

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Power Modulator	205	PM
Hub Dynamo	206	DH
Light	213	LP
Light (SMRTX2)	217	LP (SMRTX2)
Cycle Computer	217	SC
E-thru axle (AX)	218	AX
Pedal (SPD)	219	PD
Pedal (CLICK'R)	220	PD
Pedal (Flat)	221	PD
Pedal (SPD-SL)	221	PD

Chain

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CN-HG901-11	CN-HG701-11	CN-HG601-11	CN-E6090-10	CN-HG95	CN-HG54
Type	HG-X11	HG-X11	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
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)	247g	257g	257g	276g	273g	273g
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
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)	267g	273g	299g	276g	299g	324g
Note		For triple				

Series	SHIMANO
Model no.	CN-HG40
Type	HG
Pin link plate	Gray
Roller link plate	Brown
Roller	-
Chromizing treatment link pin	-
Hollow pin	-
Average weight (114 links)	324g
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 Rotor

Series	XTR/SAINT	XTR/SAINT	XTR	SHIMANO	SAINT/DEORE XT	SAINT/DEORE XT
Model no.	SM-RT99	SM-RT99-A	SM-RT98	SM-RT900	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
FREEZA (Radiator fin)	X	X	-	X	-	-
Outside diameter	203mm	-	X	-	X	X
	180mm	X	-	X	X	X
	160mm	X	-	X	X	X
	140mm	X*	X*	X*	X	-
Alloy lock ring	X	X	X	X	X	X
Adapter	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Painted	Painted
Rotor	Material	Stainless steel+Aluminum+ Stainless steel	Stainless steel+Aluminum+ Stainless steel	Stainless steel+Aluminum+ Stainless steel	Stainless steel+Aluminum+ Stainless steel	Stainless steel+Aluminum+ Stainless steel
	Finish	Polished	Polished	Polished	Polished	Polished
Pad compatibility	Metal	X	X	X	X	X
	Resin	X	X	X	X	X
Average weight* *W/O lock ring	173.0g (203mm) 132.3g (180mm) 118.1g (160mm) 96.5g (140mm)	95.0g (140mm)	173.0g (203mm) 122.5g (180mm) 118.5g (160mm) 93.0g (140mm)	119g (160mm) 96g (140mm)	187.0g (203mm) 154.0g (180mm) 135.0g (160mm)	173.0g (203mm) 149.0g (180mm) 122.0g (160mm) 100.5g (140mm)
Note	w/Radiator fin *for rear only in MTB usage	w/Radiator fin *for rear only in MTB usage	*140mm for rear only		With anti loosen tightening plate	*for rear only in MTB usage

Series	DEORE XT	SHIMANO	SLX/DEORE	DEORE	SHIMANO	SHIMANO
Model no.	SM-RT76	SM-RT70	SM-RT66	SM-RT64	SM-RT56	SM-RT54
CENTER LOCK	-	X	-	X	-	X
6-bolt (P.C.D. 44mm)	X	-	X	-	X	-
ICE TECHNOLOGIES	-	X	-	-	-	-
FREEZA (Radiator fin)	-	-	-	-	-	-
Outside diameter	203mm	X	X	X	X	-
	180mm	X	X	X	X	X
	160mm	X	X	X	X	X
	140mm	-	-	-	-	-
Alloy lock ring	-	-	-	-	-	-
Adapter	Material	Aluminum	Alloy	-	Aluminum	-
	Finish	Painted	Painted	-	Painted	-
Rotor	Material	Stainless steel	Stainless steel/ Aluminum/ Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Polished	Polished	Polished	Polished	Polished
Pad compatibility	Metal	X	X	X	X	-
	Resin	X	X	X	X	X
Average weight* *W/O lock ring	209g (203mm) 169g (180mm) 141g (160mm)	197g (203mm) 163g (180mm) 133g (160mm)	-	-	-	-
Note	With anti loosen tightening plate		With anti loosen tightening plate		With anti loosen tightening plate	

CN

SMCN

RT

BH

RTAD

OT

CA

PM

DH

LP

LP (SMRTX2)

SC

AX

PD

PD

PD

PD

Disc Rotor

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-RT30	SM-RT26	SM-RT10	SM-RTC60
CENTER LOCK		X	-	X	-
6-bolt (P.C.D. 44mm)		-	X	-	-
ICE TECHNOLOGIES		-	-	-	-
FREEZA (Radiator fin)		-	-	-	-
Outside diameter	203mm	-	-	-	-
	180mm	X	X	X	-
	160mm	X	X	X	X
	140mm	-	-	-	-
Alloy lock ring		-	-	-	-
Adapter	Material	Stainless steel	-	Steel	Stainless steel
	Finish	Painted	-	Painted	Painted
Rotor	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Polished	Polished	Polished	Polished
Pad compatibility	Metal	-	-	-	-
	Resin	X	X	X	X
Average weight* *W/O lock ring		-	-	-	-
Note			With anti loosen tightening plate		Rotor is fixed by 5-bolts with 74mm 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							

Disc Brake Hose

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 Rotor Adapter

Series		SHIMANO
Model no.		SM-RTAD05
Color	1	Black
	2	-
	3	-
Lock ring	Type	Outer 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
Note	R10 QR	X
	<p>Use this disc rotor adapter to attach the 6-bolt mount type rotor to CENTER LOCK mount type hub.</p> <p>Cannot be used with the 6-bolt rotor that is installed with an Aluminum adapter. (SM-RT86/76)</p>	

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Outer Cable

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

Cable adjuster

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-CB90	SM-CB70	SM-CA70	SM-CA50
Shifting cable		-	-	X	X
Brake cable		X	X	-	-
Quick release function		X	-	-	-
Outer adjust bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Body	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	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)	-	-	-	-
	Canti 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 Japanese 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

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Hub Dynamo

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE LX	DEORE LX	
Model no.		DH-T8000-3D	DH-T785-1D	DH-T780	DH-T780-1N	DH-T675	DH-T670-3N	
Regulation	StVZO	X	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		Regular	Disc brake	Regular	Regular	Disc brake	Regular	
Center lock mount type		X	X	-	-	X	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		3	1.5	3	1.5	3	3	
Wheel size	26-28inch	X	-	X	-	X	X	
	20-28inch	-	X	-	X	-	-	
	18-28inch	-	-	-	-	-	-	
	16-28inch	-	-	-	-	-	-	
	24-28inch	-	-	-	-	-	-	
	20-24inch	-	-	-	-	-	-	
	16-20inch	-	-	-	-	-	-	
Compatible wheel size (mm)		(646-716)	(492-716)	(646-716)	(492-716)	(646-716)	(646-716)	
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	60	60	52.1	60	
Offset (mm)		4	3.1	0	0	4	0	
Hole P.C.D. (mm)		70	57	70	57	70	70	
Axle length (mm)		108	108	108	108	108	108	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	X	X	X	X	X	X	
Seal		Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	
Roller brake modulator grade	More than 26inch	High	-	-	-	-	-	
		Standard	-	-	-	-	-	
	20-24inch	-	-	-	-	-	-	
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	Anodized & Painted	
QR	Axle	Material	Aluminum	Steel	Aluminum	Steel	Steel	
		Finish	Chromating	Zinc plated	Chromating	Zinc plated	Zinc plated	Zinc plated
	QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
		Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
		Color	Black	Black	Black	Black	Silver	Silver
	QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
		Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	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		503g	425g	483g	425g	559g	550g	
Note								

Hub Dynamo

Series		DEORE LX	ALIVIO	ALIVIO	SHIMANO	SHIMANO	SHIMANO	
Model no.		DH-T670-2N	DH-T4050-1D	DH-T4000-1N	DH-3D72	DH-3D37-QR	DH-3D37-NT	
Regulation	StVZO	-	X	X	X	X	X	
	TPGBi	-	-	-	X	-	-	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Silver	Silver	Silver	Silver	Silver	Silver	
	2	Black	Black	Black	Black	Black	Black	
	3	-	-	-	-	-	-	
Type		Regular	Disc brake	Regular	Disc brake	Disc brake	Disc brake	
Center lock mount type		-	X	-	X	X	X	
Voltage (V)		6	6	6	6	6	6	
Output (W)		2.4	1.5	1.5	3	3	3	
Wheel size	26-28inch	X	-	-	X	-	-	
	20-28inch	-	-	X	-	-	-	
	18-28inch	-	X	-	-	-	-	
	16-28inch	-	-	-	-	X	X	
	24-28inch	-	-	-	-	-	-	
	20-24inch	-	-	-	-	-	-	
	16-20inch	-	-	-	-	-	-	
Compatible wheel size (mm)		(646-716)	(448-716)	(448-716)	(646-716)	(400-716)	(400-716)	
QR type		X	X	X	X	X	-	
Nut type		-	-	-	-	-	X	
O.L.D. (mm)		100	100	100	100	100	100	
Flange Distance (mm)		60	51	56.0	52.1	51	51	
Offset (mm)		0	1.9	0	3.8	4	3.6	
Hole P.C.D. (mm)		70	67	67	70	74	74	
Axle length (mm)		108	108	108	108	108	140	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	X	X	X	X	X	X	
Seal		Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	
Roller brake modulator grade	More than 26inch	High	-	-	-	-	-	
		Standard	-	-	-	-	-	
	20-24inch	-	-	-	-	-	-	
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	Painted	Painted	Anodized & Painted / Anodized	Painted	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	Steel	-
		Finish	Anodized	E-Coating	E-Coating	Anodized	Nickel plated	-
		Color	Silver	Black	-	Silver / Black	-	-
	QR housing	Material	Aluminum	Steel	Steel	Aluminum	Steel	-
		Finish	Anodized	E-Coating	E-Coating	Anodized	Nickel plated	-
	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		550g	565g	580g	559g	650g	680g	
Note								

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Hub Dynamo

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	CAPREO	SHIMANO	
Model no.		DH-3D32-QR	DH-3D32-NT	DH-3N80	DH-3N72	DH-F703	DH-F703-S	
Regulation	StVZO	X	X	X	X	X	X	
	TPGBi	-	-	X	-	-	-	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Clear	Clear	Silver	Silver	Silver	Silver	
	2	Black	Black	-	Black	-	-	
	3	-	-	-	-	-	-	
Type		Disc brake	Disc brake	Regular	Regular	Regular	Regular	
Center lock mount type		-	-	-	-	-	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		3	3	3	3	3	3	
Wheel size	26-28inch	-	-	X	X	-	-	
	20-28inch	-	-	-	-	-	-	
	18-28inch	-	-	-	-	-	-	
	16-28inch	X	X	-	-	-	-	
	24-28inch	-	-	-	-	-	-	
	20-24inch	-	-	-	-	-	-	
	16-20inch	-	-	-	-	X	X	
Compatible wheel size (mm)		(400-716)	(400-716)	(646-716)	(646-716)	(400-536)	(400-536)	
QR type		X	-	X	X	X	X	
Nut type		-	X	-	-	-	-	
O.L.D. (mm)		100	100	100	100	74	74	
Flange Distance (mm)		51.1	51.1	60.0	60.0	44.6	44.6	
Offset (mm)		4	3.6	0	0	0	0	
Hole P.C.D. (mm)		74	74	70	70	74	74	
Axle length (mm)		108	140	108	108	82	82	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	X	X	
	28H	-	-	-	-	-	X	
	32H	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 26inch	High	-	-	-	-	-	
		Standard	-	-	-	-	-	
	20-24inch	-	-	-	-	-	-	
Electric power output connector	J1 type	-	-	-	-	-	-	
	J2 type	-	-	-	-	-	-	
	E2 type	X	X	X	X	X	X	
	Others	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Anodized	Anodized & Painted	Anodized	Painted	
QR	Axle	Material	Steel	Steel	Aluminum	Steel	Steel	
		Finish	Zinc plated	Manganese Phosphate Coated	Chromating	Zinc plated	Zinc plated	Zinc plated
	QR lever	Material	Steel	-	Aluminum	Aluminum	Aluminum	Aluminum
		Finish	Nickel plated	-	Anodized	Anodized	Anodized	Anodized
		Color	-	-	Silver	Silver	Black	Black
	QR housing	Material	Steel	-	Aluminum	Aluminum	Aluminum	Aluminum
		Finish	Nickel plated	-	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		685g	705g	483g	560g	590g	590g	
Note								

Hub Dynamo

Series		ALFINE	ALFINE	NEXUS	NEXUS	NEXUS	NEXUS	
Model no.		DH-S701	DH-S501	DH-C6000-3R-QR	DH-C6000-3N-NT	DH-C6000-3R-NT	DH-C6000-2N-NT	
Regulation	StVZO	X	X	X	X	X	-	
	TPGBi	-	-	-	X	X	-	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Silver	Silver	Silver	Silver	Silver	Silver	
	2	Piano Black	Piano Black	Black	Black	Black	Black	
	3	-	-	-	-	-	-	
Type		Disc brake	Disc brake	Hub Roller Brake	Regular	Hub Roller Brake	Regular	
Center lock mount type		X	X	-	-	-	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		1.5	3	3	3.0	3	2.4	
Wheel size	26-28inch	-	X	X	-	X	-	
	20-28inch	X	-	-	-	-	-	
	18-28inch	-	-	-	-	-	-	
	16-28inch	-	-	-	X	-	X	
	24-28inch	-	-	-	-	-	-	
	20-24inch	-	-	-	-	-	-	
	16-20inch	-	-	-	-	-	-	
Compatible wheel size (mm)		(492-716)	(646-716)	(646-716)	(400-716)	(646-716)	(400-716)	
QR type		X	X	X	-	-	-	
Nut type		-	-	-	X	X	X	
O.L.D. (mm)		100	100	100	100	100	100	
Flange Distance (mm)		54	52.1	58.1	60.0	58.1	60.0	
Offset (mm)		3.1	3.8	5.2	1.0	4.7	1.0	
Hole P.C.D. (mm)		57	70	76	74	76	74	
Axle length (mm)		108	108	108	140	140	140	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	X	-	-	
	32H	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 26inch	High	-	X	-	X	-	
		Standard	-	-	X	-	X	-
	20-24inch	-	-	-	-	-	-	
Electric power output connector	J1 type	-	-	-	-	-	-	
	J2 type	-	-	-	-	-	-	
	E2 type	X	X	X	X	X	X	
	Others	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted	
QR	Axle	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Zinc plated	Zinc plated	Manganese Phosphate Coated	Manganese Phosphate Coated	Manganese Phosphate Coated	Manganese Phosphate Coated
	QR lever	Material	Aluminum	Aluminum	Steel	-	-	-
		Finish	Anodized	Anodized	Nickel plated	-	-	-
		Color	Silver	Silver	-	-	-	-
	QR housing	Material	Aluminum	Aluminum	Steel	-	-	-
		Finish	Anodized	Anodized	Nickel plated	-	-	-
	QR nut	Material	Resin & Steel	Resin & Steel	Resin & Steel	-	-	-
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	-	-	-	-	-	-
133		X	X	X	-	-	-	
Average weight		430g	564g	947g	712g	960g	712g	
Note								

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Hub Dynamo

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	
Model no.		DH-C6000-2R	DH-C6000-1R	DH-C6000-1N	DH-C3000-3N-QR	DH-C3000-3N-NT	DH-C3000-2N-QR	
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		Hub Roller Brake	Hub Roller Brake	Regular	Regular	Regular	Regular	
Center lock mount type		-	-	-	-	-	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		2.4	1.5	1.5	3.0	3.0	2.4	
Wheel size	26-28inch	X	X	-	-	-	-	
	20-28inch	-	-	X	-	-	-	
	18-28inch	-	-	-	-	-	-	
	16-28inch	-	-	-	X	X	X	
	24-28inch	-	-	-	-	-	-	
	20-24inch	-	-	-	-	-	-	
	16-20inch	-	-	-	-	-	-	
Compatible wheel size (mm)		(646-716)	(646-716)	(448-716)	(400-716)	(400-716)	(400-716)	
QR type		-	-	-	X	-	X	
Nut type		X	X	X	-	X	-	
O.L.D. (mm)		100	100	100	100	100	100	
Flange Distance (mm)		58.1	58.1	56.0	60.0	60.0	60.0	
Offset (mm)		4.7	4.7	0	0.6	1.0	0.6	
Hole P.C.D. (mm)		76	76	67	74	74	74	
Axle length (mm)		140	140	140	108	140	108	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	-	X	-	
	32H	X	X	X	X	X	X	
	36H	X	X	X	X	X	X	
Seal		Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	
Roller brake modulator grade	More than 26inch	High	X	X	-	-	-	
		Standard	X	X	-	-	-	
	20-24inch	-	-	-	-	-	-	
Electric power output connector	J1 type	-	-	-	-	-	-	
	J2 type	-	-	-	-	-	-	
	E2 type	X	X	X	X	X	X	
	Others	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminium	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	-	Steel
		Finish	-	-	-	Nickel plated	-	Nickel plated
		Color	-	-	-	-	-	-
	QR housing	Material	-	-	-	Steel	-	Steel
		Finish	-	-	-	Nickel plated	-	Nickel plated
	QR nut	Material	-	-	-	Resin & Steel	-	Resin & Steel
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	-	-	-	X	-	X
133		-	-	-	X	-	X	
Average weight		960g	960g	630g	700g	712g	700g	
Note								

Hub Dynamo

Series		NEXUS	NEXUS	NEXUS	NEXUS	Nexus	NEXUS	
Model no.		DH-C3000-2N-NT	DH-C3000-1N	DH-C2100-N	DH-C2100-NC	DH-C2100-N-QR	DH-2N40-J	
Regulation	StVZO	-	X	-	-	-	-	
	TPGBi	-	-	-	-	-	-	
	JIS	-	-	-	-	-	X	
	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	1.5	0.9	0.9	0.9	2.4	
Wheel size	26-28inch	-	-	-	-	-	-	
	20-28inch	-	X	-	-	-	-	
	18-28inch	-	-	-	-	-	-	
	16-28inch	X	-	-	-	-	-	
	24-28inch	-	-	X	-	X	X	
	20-24inch	-	-	-	X	X	-	
	16-20inch	-	-	-	-	-	-	
Compatible wheel size (mm)		(400-716)	(448-716)	-	-	-	-	
QR type		-	-	-	-	X	-	
Nut type		X	X	X	X	-	X	
O.L.D. (mm)		100	100	93	93	100	93	
Flange Distance (mm)		60.0	56.0	58	58	58	60.0	
Offset (mm)		1.0	0	0.5	0.5	0.5	0	
Hole P.C.D. (mm)		74	67	60	60	60	69	
Axle length (mm)		140	140	155	155	108	155 / 150	
Spoke size		#14	#14	#13/#14	#13/#14	#13 / #14	#13 / #14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	X	-	-	
	32H	X	X	-	-	X	-	
	36H	X	X	X	-	X	X	
Seal		Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	
Roller brake modulator grade	More than 26inch	High	-	-	-	-	-	
		Standard	-	-	-	-	-	
	20-24inch	-	-	-	-	-	-	
Electric power output connector	J1 type	-	-	-	-	-	-	
	J2 type	-	-	-	-	-	X	
	E2 type	X	X	-	-	-	-	
	Others	-	-	X (J2-A)	X (J2-A)	X (J2-A)	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum & Steel	
	Finish	Painted	Painted	Painted / Passivation	Painted / Passivation	Painted(Black) / Passivation(Silver)	Painted / Passivation	
QR	Axle	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Manganese Phosphate Coated	Manganese Phosphate Coated	Plating	Plating	-	Zinc plated
	QR lever	Material	-	-	-	-	Steel	-
		Finish	-	-	-	-	Plated	-
		Color	-	-	-	-	Black / Silver	-
	QR housing	Material	-	-	-	-	Steel	-
		Finish	-	-	-	-	Plated	-
	QR nut	Material	-	-	-	-	Resin & Steel	-
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	-	-	-	-	x	-
133		-	-	-	-	x	-	
Average weight		705g	600g	491g	491g	491g	630g	
Note							* Japanese market only	

- CN
- SMCN
- RT
- BH
- RTAD
- OT
- CA
- PM
- DH**
- LP
- LP (SMRTX2)
- SC
- AX
- PD
- PD
- PD
- PD

Hub Dynamo

Series		NEXUS	SHIMANO	SHIMANO	NEXUS	
Model no.		DH-2N40-JC	DH-2N40-JW	DH-2N40-JWC	DH-2R30-J	
Regulation	StVZO	-	-	-	-	
	TPGBi	-	-	-	-	
	JIS	X	X	X	X	
	Others	-	-	-	-	
Color	1	Silver	Silver	Silver	Silver	
	2	Black	Black	Black	-	
	3	-	-	-	-	
Type		Regular	Regular	Regular	Hub Roller Brake	
Center lock mount type		-	-	-	-	
Voltage (V)		6	6	6	6	
Output (W)		2.4	2.4	2.4	2.4	
Wheel size	26-28inch	-	-	-	X	
	20-28inch	-	-	-	-	
	18-28inch	-	-	-	-	
	16-28inch	-	-	-	-	
	24-28inch	-	X	-	-	
	20-24inch	X	-	X	-	
	16-20inch	-	-	-	-	
Compatible wheel size (mm)		-	-	-	-	
QR type		-	-	-	-	
Nut type		X	X	X	X	
O.L.D. (mm)		93	100	100	100	
Flange Distance (mm)		60.0	60.0	60.0	58.1	
Offset (mm)		0	3	3	4.8	
Hole P.C.D. (mm)		69	69	69	74	
Axle length (mm)		150	140	140	155	
Spoke size		#14	#14	#14	#13 / #14	
Spoke hole	24H	-	-	-	-	
	28H	X	-	-	-	
	32H	-	-	-	-	
	36H	-	X	X	X	
Seal		Single Contact	Single Contact	Single Contact	Single Contact	
Roller brake modulator grade	More than 26inch	High	-	-	-	
		Standard	-	-	X	
	20-24inch	-	-	-	-	
Electric power output connector	J1 type	-	-	-	-	
	J2 type	X	X	X	X	
	E2 type	-	-	-	-	
	Others	-	-	-	-	
Hub shell	Material	Aluminum & Steel	Aluminum & Steel	Aluminum & Steel	Aluminum	
	Finish	Painted / Passivation	Painted / Passivation	Painted / Passivation	Painted	
QR	Axle	Material	Steel	Steel	Steel	Steel
		Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated
	QR lever	Material	-	-	-	-
		Finish	-	-	-	-
		Color	-	-	-	-
	QR housing	Material	-	-	-	-
		Finish	-	-	-	-
	QR nut	Material	-	-	-	-
		Finish	-	-	-	-
	QR Skewer Length (mm)	129	-	-	-	-
133		-	-	-	-	
Average weight		630g	630g	630g	985g	
Note		* Japanese market only	* Japanese market only	* Japanese market only	* Japanese market only	

Light

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Function name		HILMO	HILMO	HILMO	HILMO	HILMO	HILMO
Model no.		LP-C2200-S	LP-C2200-B	LP-C2201-S	LP-C2201-B	LP-C2100-S	LP-C2100-B
Auto light		-	-	-	-	-	-
Type of light	Front	X	X	X	X	X	X
	Tail(Rear)	-	-	-	-	-	-
Hub dynamo output		0.9W	0.9W	0.9W	0.9W	6V-0.9W	6V-0.9W
Main light		1W LED	1W LED	1W LED	1W LED	1W High Poewr LED	1W High Poewr LED
Stand light (LED flashing) function		-	-	-	-	-	-
Reflector integration		X	X	X	X	X	X
Electric power input	Tab-on type	-	-	-	-	-	-
	Connector type	J2-A	J2-A	J2-A	J2-A	J2-A	J2-A
Light body material		Resin	Resin	Resin	Resin	Resin	Resin
Color	1	CP	CP	CP	CP	CP	CP
	2	Gray	Gray	Gray	Gray	Silver(Painted)	Silver(Painted)
	3	Black	Black	Black	Black	White	White
	4	Silver	Silver	Silver	Silver	Black	Black
	5	White	White	White	White	Gray	Gray
	6	-	-	-	-	-	-
Attachment position	Light stay	X	-	X	-	X	-
	Below basket	-	X	-	X	-	X
	Fork center	-	-	-	-	-	-
	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	-	-	-	-	-	-
	grey	X	X	X	X	X	X
Electric wire length(mm)	Tab-on type	-	-	-	-	-	-
	Connector type	405	715	405	715	410	675
EZ cable clamp		-	-	-	-	-	-
Cord length adjuster		-	-	-	-	-	-
compatible wheel size		-	-	-	-	-	-
Note		*Japanese market only *Difference between LP-C2200 & LP-C2201 is appearance design.	*Japanese market only *Difference between LP-C2200 & LP-C2201 is appearance design.	*Japanese market only *Difference between LP-C2200 & LP-C2201 is appearance design.	*Japanese market only *Difference between LP-C2200 & LP-C2201 is appearance design.	*Japanese market only *Difference between LP-C2100 & LP-C2101 is appearance design.	*Japanese market only *Difference between LP-C2100 & LP-C2101 is appearance design.

- CN
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- BH
- RTAD
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- CA
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- DH
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- LP (SMRTX2)
- SC
- AX
- PD
- PD
- PD
- PD

Light

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Function name		HILMO	HILMO	HILMO FLASH	HILMO FLASH		
Model no.		LP-C2101-S	LP-C2101-B	LP-C2111-S	LP-C2111-B	LP-X200	LP-X102-H
Auto light		-	-	-	-	X	X
Type of light	Front	X	X	X	X	X	X
	Tail(Rear)	-	-	-	-	-	-
Hub dynamo output		6V-0.9W	6V-0.9W	6V-0.9W	6V-0.9W	6V-2.4W	6V-2.4W
Main light		1W High Poewr LED	1W High Poewr LED	1W High Poewr LED	1W High Poewr LED	1W High Poewr LED x2	1W High Poewr LED
Stand light (LED flashing) function		-	-	X	X	-	-
Reflector integration		X	X	X	X	-	X
Electric power input	Tab-on type	-	-	-	-	X	X
	Connector type	J2-A	J2-A	J2A	J2A	X	X
Light body material		Resin	Resin	Resin	Resin	Resin	Resin
Color	1	CP	CP	CP	CP	Silver(Painted)	CP
	2	Silver(Painted)	Silver(Painted)	Silver(Painted)	Silver(Painted)	White(Painted)	Silver(Painted)
	3	White	White	White	White	Black	White(Painted)
	4	Black	Black	Black	Black	Gray	Black(Painted)
	5	Gray	Gray	Gray	Gray	-	-
	6	-	-	-	-	-	-
Attachment position	Light stay	X	-	X	-	X	X
	Below basket	-	X	-	X	-	-
	Fork center	-	-	-	-	-	-
	Handle bar	-	-	-	-	-	-
	on mud guard	-	-	-	-	-	-
	mud guard style stay	-	-	-	-	-	-
Compatible seat stay diameter (mm)	13	-	-	-	-	-	-
	16	-	-	-	-	-	-
	19	-	-	-	-	-	-
Compatible handle bar diameter (mm)	22.2	-	-	-	-	-	-
	25.4	-	-	-	-	-	-
	31.8	-	-	-	-	-	-
Switch	Auto	-	-	-	-	X	X
	Manual (on)	-	-	-	-	X	X
	Manual (off)	-	-	-	-	-	-
	Permanent	X	X	X	X	-	-
Electric wire color	Black	-	-	-	-	X	X
	grey	X	X	X	X	-	-
Electric wire length(mm)	Tab-on type	-	-	-	-	690	405
	Connector type	410	675	675	675	110	155
EZ cable clamp		-	-	-	-	-	-
Cord length adjuster		-	-	-	-	-	-
compatible wheel size		-	-	-	-	-	-
Note		*Japanese market only *Difference between LP-C2100 & LP-C2101 is appearance design.	*Japanese market only *Difference between LP-C2100 & LP-C2101 is appearance design.	*Japanese market only	*Japanese market only	*Japanese market only	*Japanese market only

Light

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Function name							
Model no.		LP-X102-HC	LP-X102	LP-X101-H	LP-X101	LP-X100	LP-NX60-R
Auto light		X	X	X	X	X	-
Type of light	Front	X	X	X	X	X	X
	Tail(Rear)	-	-	-	-	-	-
Hub dynamo output		6V-2.4W	6V-2.4W	6V-2.4W	6V-2.4W	6V-2.4W	6V-2.4W
Main light		1W High Poewr LED	1W High Poewr LED	1W High Poewr LED	1W High Poewr LED	1W High Poewr LED	Super Bright Red LED
Stand light (LED flashing) function		-	-	-	-	-	X (if used with LP-X103)
Reflector integration		X	-	X	-	-	-
Electric power input	Tab-on type	X	X	X	X	X	-
	Connector type	X	X	X	X	X	X
Light body material		Resin	Resin	Resin	Resin	Resin	Resin
Color	1	CP	Silver(Painted)	Silver(Painted)	Silver(Painted)	Silver(Painted)	Silver(Painted)
	2	Silver(Painted)	White(Painted)	White(Painted)	White(Painted)	White(Painted)	White(Painted)
	3	White(Painted)	Black(Painted)	Black	Black	Black	Black(Painted)
	4	Black(Painted)	-	Gray	Gray	Gray	-
	5	-	-	-	-	-	-
	6	-	-	-	-	-	-
Attachment position	Light stay	-	X	X	X	X	-
	Below basket	-	-	-	-	-	-
	Fork center	X	-	-	-	-	-
	Handle bar	-	-	-	-	-	-
	on mud guard	-	-	-	-	-	X *
	mud guard style stay	-	-	-	-	-	-
	seat stay	-	-	-	-	-	-
Compatible seat stay diameter (mm)	13	-	-	-	-	-	-
	16	-	-	-	-	-	-
	19	-	-	-	-	-	-
Compatible handle bar diameter (mm)	22.2	-	-	-	-	-	-
	25.4	-	-	-	-	-	-
	31.8	-	-	-	-	-	-
Switch	Auto	X	X	X	X	X	-
	Manual (on)	X	X	X	X	X	-
	Manual (off)	-	-	-	-	-	-
	Permanent	-	-	-	-	-	X
Electric wire color	Black	X	X	X	X	X	X
	grey	-	-	-	-	-	X
Electric wire length(mm)	Tab-on type	565	405	410	400	675	-
	Connector type	155	155	160	120	125	Available
EZ cable clamp		-	-	-	-	-	-
Cord length adjuster		-	-	-	-	-	-
compatible wheel size		-	-	-	-	-	22/24/26/27 inch
Note		*Japanese market only	*Japanese market only	*Japanese market only	*Japanese market only	*Japanese market only	*Japanese market only, (attached with special stay. 2 kinds of stays are available. One for IHG, another for RH/FH)

CN

SMCN

RT

BH

RTAD

OT

CA

PM

DH

LP

LP (SMRTX2)

SC

AX

PD

PD

PD

PD

Light

Series		TOURNEY	TOURNEY
Function name			
Model no.		LP-RTX2	LP-RTX2
Auto light		-	-
Type of light	Front	-	-
	Tail(Rear)	X	X
Hub dynamo output		6V-2.4W	6V-2.4W
Main light		Super Bright Red LED	Super Bright Red LED
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	Black	Black
	2	-	-
	3	-	-
	4	-	-
	5	-	-
	6	-	-
Attachment position	Light stay	-	-
	Below basket	-	-
	Fork center	-	-
	Handle bar	-	-
	on mud guard	-	-
	mud guard style stay	X	-
	seat stay	-	X
Compatible seat stay diameter (mm)	13	-	X
	16	-	X
	19	-	X
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
Electric wire length(mm)	Tab-on type	-	-
	Connector type	910	1140 / 1240
EZ cable clamp		3	5
Cord length adjuster		X	X
compatible wheel size		20/22/24 inch CTB	-
Note		*Japanese market only	*Japanese market only

Light (SMRTX2)

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

Cycle Computer

Series		TOURNEY
Model no.		SC-TX35
Compatible system		Mechanical
Attachment position		Handle Bar
Battery type		CR2032
Charging for cycle computer		-
Rear speeds		-
Front speeds		-
Number of programmable wheel size		1
Wheel size range		20"-22"-24"-26"-27"-28"-700C
Remote switch		-
Communications		Wired
Memory capacity		-
PC software available		-
Detachable		X
Display spec	Size (Active Area)	42.5mm (1.7 inch)
	Font type	Segment
	Panel type	LCD
	Back light	-
Display function	Touch panel	-
	Gear indicator	-
	Speed	X
	Cadence	-
	Trip distance	-
	Odometer	X
	Heart rate	-
	Power	-
	Time/Clock	X
	Altitude/Slope	-
	Temperature	-
	Lap time	-
Setting function	Auto display start	X
	Display customizing	-
	Unit setting	-
	Language choice	-
	Beep on/off	-
For Di2 system	Changing data sampling rate	-
	Di2 battery indicator	-
	Adjust indicator	-
	System diagnosis	-
	Multi shifting speed setting	-
	Speeds switching	-
	Saver reset (crash recovery mode)	-
	E-tube connector	-
	Charging connector for built-in battery	-
	Compatible charger	-
	Power current indicator	-
	Light on/off indicator	-
Assist mode display	-	
Regenerator mode display	-	
Note		Use with SM-TX35-A

CN

SMCN

RT

BH

RTAD

OT

CA

PM

DH

LP

LP (SMRTX2)

SC

AX

PD

PD

PD

PD

E-thru axle (AX)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-AX720	SM-AX720	SM-AX78	SM-AX78-B	SM-AX58	SM-AX58-B
Axle type	135x10mm	-	-	-	-	-	-
	100x12mm	X	-	-	-	-	-
	135x12mm	-	-	-	-	-	-
	142x12mm	-	X	X	-	X	-
	148x12mm	-	-	-	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	M12x1.5	M12x1.5	M12x1.5	M12x1.5	M12x1.5	M12x1.5
	Length (mm)	121	163	166	172	166	172
	Hollow axle	X	X	X	X	X	X
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black anodized	Black anodized	Black anodized	Black anodized	Silver anodized	Silver anodized
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black anodized	Black anodized	Black anodized	Black anodized	Black painted	Black painted
Housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black anodized	Black anodized	Black anodized	Black anodized	Black anodized	Black anodized
Fixing nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight		65g	74g	77g	78g	81g	82g
Note							

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-AX76	SM-AX76-B	SM-AX56	SM-AX56-B
Axle type	135x10mm	-	-	-	-
	100x12mm	-	-	-	-
	135x12mm	-	-	-	-
	142x12mm	X	-	X	-
	148x12mm	-	X	-	X
Lever position adjust type		Right fixing nut	Right fixing nut	Right fixing nut	Right fixing nut
Axle	Thread pitch	M12x1.5	M12x1.5	M12x1.5	M12x1.5
	Length (mm)	171	177	171	177
	Hollow axle	X	X	X	X
	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black anodized	Black anodized	Silver anodized	Silver anodized
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black anodized	Black anodized	Black painted	Black painted
Housing	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black anodized	Black anodized	Black painted	Black painted
Fixing nut	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black anodized	Black anodized	Black anodized	Black anodized
Average weight		69g	71g	75g	77g
Note					

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-SH56	SM-SH51	SM-SH51	SM-SH51
Optional cleat	SM-SH56	SM-SH56	SM-SH51	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) / Painted (White)
Cage	Material	-	-	-	-	-
Average weight (pair)	310g	379g	343g	408g	352g	383g
Note			1.0mm cleat spacer included	1.0mm cleat spacer included		

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.	PD-M520	PD-M505	PD-M647	PD-M545	PD-M424	PD-M324	
Color 1	Silver	Silver	Black	Silver	Black	Silver	
Color 2	Black	Black	-	-	-	-	
Color 3	White	-	-	-	-	-	
Type	Off-Road (SPD)	Off-Road (SPD)	Off-Road/BMX (SPD)	Off-Road/BMX (SPD)	Off-Road/BMX (SPD)	Multi-purpose (SPD/Flat)	
Binding	Dual Sided	Dual Sided	Dual Sided	Dual Sided	Dual Sided	Single Sided	
Pedal axle material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	
Cartridge axle	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	-	-	-	-	-	-	
Offset binding	-	-	-	-	-	-	
Oval shape axle body housing	-	-	-	-	-	-	
Cleat included	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH56	
Optional cleat	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH51	
Reflector	SM-PD22	SM-PD22	SM-PD60	SM-PD40	SM-PD40	Y41B98010	
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Polished (Silver) / Painted (Black) / Painted (White)	Polished (Silver) / Painted (Black)	Painted	Painted	Polished	Painted
Cage	Material	-	-	Resin	Aluminum	Resin	Steel
Average weight (pair)	380g	443g	568g	567g	472g	533g	
Note							

- CN
- SMCN
- RT
- BH
- RTAD
- OT
- CA
- PM
- DH
- LP
- LP (SMRTX2)
- SC
- AX
- PD
- PD
- PD

Pedal (SPD)

Series	DEORE XT	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-T8000	PD-A600	PD-A530	PD-A520
Color 1	Black	Gray	Silver	Silver
Color 2	-	-	Black	-
Color 3	-	-	-	-
Type	Trekking (SPD/Flat)	Road (SPD)	Multi-purpose (SPD/Flat)	Road (SPD)
Binding	Single Sided	Single Sided	Single Sided	Single Sided
Pedal axle material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartridge axle	X	X	X	X
Sealed mechanism	X	X	X	X
Cleat retention adjuster	X	X	X	X
Pop-up cage	-	-	-	-
Integrated cage	-	-	-	-
Offset binding	-	-	-	-
Oval shape axle body housing	-	-	-	-
Cleat included	SM-SH56	SM-SH51	SM-SH51	SM-SH51
Optional cleat	SM-SH51	SM-SH56	SM-SH56	SM-SH56
Reflector	Integrated	SM-PD62	SM-PD61	SM-PD59
Pedal body	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Polished/Painted	Painted
Cage	Material	-	-	-
Average weight (pair)	392g	286g	383g	315g
Note				

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)	498g	418g	507g
Note			

Pedal (Flat)

Series	SAINT	
Model no.	PD-MX80	
Color 1	Black	
Color 2	-	
Color 3	-	
Type	Off-Road(Flat Pedal)	
Binding	-	
Pedal axle material	Chromoly Steel	
Cartridge axle	X	
Sealed mechanism	X	
Cleat retention adjuster	-	
Pop-up cage	-	
Integrated cage	-	
Offset binding	-	
Oval shape axle body housing	-	
Cleat included	-	
Optional cleat	-	
Reflector	SM-PD64	
Pedal body	Material	Aluminum
	Finish	Painted
Cage	Material	-
Average weight (pair)		500g
Note		

Pedal (SPD-SL)

Series	DURA-ACE	ULTEGRA	105	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-R9100	PD-6800	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	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	Painted
Body cover material	Polished Special Stainless	Special Stainless	Stainless	Stainless	Resin	Resin
Wide platform	X	X	X	X	-	-
Road clearance	35°	32°	32°	32°	34°	34°
Average weight (pair)	228g	260g	285g	310g	330g	330g
Note	4mm longer axle available Hollow Cleat bolts	4mm longer axle available (NEW)		Wider spring tension range	Lighter spring tension	

Di2 spec

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Shifting Switch

Series	XTR	XTR	SHIMANO DEORE XT	SHIMANO DEORE XT
Model no.	SW-M9050-L	SW-M9050-R	SW-M8050-L	SW-M8050-R
Switch type	FIREBOLT	FIREBOLT	FIREBOLT	FIREBOLT
Position	Clamp band, Left	Clamp band, Right	Clamp band, Left	Clamp band, Right
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	66g/pc	66g/pc	93g/pc	93g/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	

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	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	Painted
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	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted
P-axle	Material	Steel	Steel	Steel
	Finish	-	-	-
Plate body	Material	CFRP	CFRP	CFRP
	Finish	Painted	Painted	-
Outer link	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted
Inner link	Material	Aluminum	Aluminum	Stainless steel
	Finish	Anodized	Anodized	-
Outer plate	Material	CFRP	CFRP	Aluminum
	Finish	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted
E-tube port (QTY)		1	1	1
Average weight		295g	290g	320g
Note		*w/o bracket spec available. ** The Di2 system limits cross chain to prevent a chain from getting loose.	*w/o bracket spec available. ** The Di2 system limits cross chain to prevent a chain from getting loose.	*w/o bracket spec available. ** The Di2 system limits cross chain to prevent a chain from getting loose.

SW

RD

FD

SMAD

SC

SG

MU

SW

ST

ST

SW

RD

FD

SMAD

WU

EW

EWC

GM

JC

JC

BT

BM

SMBT

SMBC

PCE

BCC

WU

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 (Band type: L size, direct type w/ bolt)		125g	112g	134g	
Note			*Compatible with the special crankset which chain line is 3mm outboard.The special frame is required.	* for FC 3mm outboard spec,51.8mm **Compatible with the special crankset which chain line is 3mm outboard.The special frame is required.	

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
	Finish	-	-	Painted
FC Top gear teeth	40-34T	40-34T	40-34T	40-34T
Average weight	33g	42.1g	21.1g	27.1g
Note	*W/Multi Clamp Band	*W/Multi Clamp Band	Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.	Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.

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
	Gear indicator (Front)	1/2/3
	Shifting mode (Manual/Synchronized)	X
	Suspension mode	X
	Shifting adjust mode	X
	Battery charge level	X
Setting function	Shifting adjust	X
For Di2 system	Shifting adjust indicator	X
	System diagnosis	X
	Charging port for built-in battery	X
	Compatible charger	SM-BCR2
	Synchronized shifting mode change	X
Master unit	-	-
Firmware update by E-tube Project	X	X
E-tube port (QTY)	3	3
Average weight	30g	30g
Note	*2 Spec of clamp band diameter 31.8 and 35.	* ANT private has compatibility with ANT+ cycle computer but not freely open profile **2 Spec of clamp band diameter. 31.8 and 35.0 ***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-S705	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 Type	Center Lock Type	Inter-M	V-BRAKE	Coaster Brake	Center Lock Type
	Recommended Model	BR-S700	-	-	-	-	-
Speeds		11	8	8	8	8	8
Gear ratio	Total	409%	307%	307%	307%	307%	307%
	1	0.527	0.527	0.527	0.527	0.527	0.527
	2	0.681	0.644	0.644	0.644	0.644	0.644
	3	0.770	0.748	0.748	0.748	0.748	0.748
	4	0.878	0.851	0.851	0.851	0.851	0.851
	5	0.995	1	1	1	1	1
	6	1.134	1.223	1.223	1.223	1.223	1.223
	7	1.292	1.419	1.419	1.419	1.419	1.419
	8	1.462	1.615	1.615	1.615	1.615	1.615
	9	1.667	-	-	-	-	-
	10	1.888	-	-	-	-	-
Top-Normal		-	-	-	-	-	-
Silent clutch		X	X	X	X	X	X
Gear change support mechanism		X	X	X	X	X	X
Shifting power modulator		X	X	X	X	X	X
Driving efficiency		High	High	High	High	High	High
w/ Left hand dust cap		-	-	-	X	-	-
O.L.D. (mm)		135	135	135	135	135	135
Spoke size		#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14
Spoke hole	28H	-	-	-	-	-	-
	32H	X	X	-	-	X	X
	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		1665g	1670g	1660g	1685g	2040g	1680g
Note							

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
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	-
Top-Normal		-
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		2080g
Note		

SW

RD

FD

SMAD

SC

SG

MU

SW

ST

ST

SW

RD

FD

SMAD

WU

EW

EWC

GM

JC

JC

BT

BM

SMBT

SMBC

PCE

BCC

WU

Motor Unit

Series	ALFINE
Model no.	MU-S705
Compatible internal geared hub	SG-S705 SG-C6060
Compatible speed	11/8-speed
Electric power connector	E-tube (EW-SD50)
Average weight	147g
Note	

Shifting Switch

Series	ALFINE
Model no.	SW-S705
Lever type	Shifting switch
Right SW	X
Left SW	-
Manual shifting switch	X
Display mode change	-
Shift mode (Auto/Manual) change	-
Auto mode select switch	-
SC integration	-
Electric power connector	E-tube (EW-SD50)
Compatible SG	SG-S705
Compatible brake lever	BL-S700
Average weight	44g
Note	

Shift/Brake Lever

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.		ST-R9160-L	ST-R9160-R	ST-R9150-L	ST-R9150-R	ST-9070	ST-9071
Lever type		Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	TT/Triathlon Dual Control Lever
Shift lever specifications	Front speeds	Synchronized Shift	Synchronized Shift	2	-	2	2
	Rear speeds	Inward (default)	Outward (default)	-	11	11	11
	Remote switch	-	-	X	X	X	-
Brake lever specifications	Reach adjust	X	X	X	X	X	X
	Clamp band (mm)	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	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	GFRP	GFRP	CFRP	CFRP	CFRP	CFRP
	Finish	-	-	-	-	-	-
Electric button	Material	CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Lever	Material	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
	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	2	2	4	0
E-tube connector (pcs)		0	0	0	0	0	2
Port for remote sprinter shifter (pcs)		0	0	1	1	2	0
Average weight		124g/pair	124g/pair	230g/pair	230g/pair	240g/pair	128g/pair
Note							

Series		ULTEGRA	ULTEGRA
Model no.		ST-6870	ST-6871
Lever type		Dual Control Lever	TT/Triathlon Dual Control Lever
Shift lever specifications	Front speeds	2	2
	Rear speeds	11	11
	Remote switch	-	-
Brake lever specifications	Reach adjust	X	X
	Clamp band (mm)	23.8 / 24.2	INNER DIA. 19.0 - 22.5
	SLR-EV	X	X
Bracket	Material	GFRP	CFRP
	Finish	-	-
Electric button	Material	GFRP	GFRP
	Finish	-	-
Lever	Material	Aluminum	Aluminum
	Finish	Painted	Anodized
Master unit		-	-
Firmware update by E-tube Project		X	X
E-tube port (pcs)		4	0
E-tube connector (pcs)		0	2
Port for remote sprinter shifter (pcs)		2	0
Average weight		303.2g/pair	148g/pair
Note			

Shift/Brake Lever (Hydraulic disc brake)

Series		DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-R9180-L	ST-R9180-R	ST-R9170-L	ST-R9170-R	ST-R785	
Color	1	Series color	Series color	Series color	Series color	Gray	
	2	-	-	-	-	-	
Shifter type		Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	
Shift lever specifications	Front speeds	2	-	2	-	2	
	Rear speeds	-	11	-	11	11	
	Remote switch	-	-	-	-	-	
	Master unit	-	-	-	-	-	
	Firmware update by E-tube Project	X	X	X	X	X	
	Compatible RD type	Road 11speed	Road 11speed	Road 11speed	Road 11speed	Road 11speed	
	SL position adjust	-	-	-	-	-	
	Multiple input	2 step	-	-	-	-	-
		Hold	X	X	X	X	X
Suspension switch	-	-	-	-	-		
Brake lever specifications	Lever size (Finger)	-	-	-	-	-	
	Brake hose (Kit)	SM-BH90-JK-SS	SM-BH90-JK-SS	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH59SB	
	Hose joint	Straight	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black	Black
		2	-	-	-	-	White
	Recommended brake caliper	BR-R9170	BR-R9170	BR-R9170	BR-R9170	BR-R785 BR-RS785	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	
	Reach adjust	Tool-less	-	-	-	-	-
		Tool	X	X	X	X	X
	Funnel bleeding	X	X	X	X	X	
	Free stroke adjust	X	X	X	X	X	
Servo wave mechanism	X	X	X	X	X		
Clamp band	Open clamp	-	-	-	-	-	
	Inner diameter	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	23.8-24.2	23.8-24.2	23.8-24.2	
Bracket	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum	
	Finish	-	-	Painted	Painted	Painted	
Brake lever	Material	Carbon	Carbon	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	
Electric button	Material	GFRP	GFRP	GFRP	GFRP	GFRP	
	Finish	-	-	-	-	-	
Shifter Lever body	Main	CFRP	CFRP	GFRP	GFRP	GFRP	
	Release	-	-	-	-	-	
Lever	Material	CFRP	CFRP	Carbon	Carbon	CFRP	
	Finish	Painted	Painted	Painted	Painted	Painted	
Master cylinder	Material	-	-	Aluminum	Aluminum	Aluminum	
	Finish	-	-	-	-	-	
E-tube connector (pcs)		0	0	0	0	0	
E-tube port (pcs)		1	1	2	2	1 (each ST R/L)	
Port for remote sprinter shifter (pcs)		0	0	0	0	0	
Average weight		-	-	360g/pair	360g/pair	500g/pair	
Note							

Shifting Switch

Series	SHIMANO	DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	SHIMANO
Model no.	SW-R9150	SW-R9160	SW-9071	SW-R671	SW-R610	SW-R600
Switch type	Option SW, pair	Bar-end SW for TT, pair	Remote TT/Time trial shifter New 1 button design	Remote Triathlon shifter Current 2 button design	Remote sprinter shifter	Remote satellite shifter (Climbing shifter)
Position	On road Bar	DH Bar	DH Bar	DH Bar	Anywhere	Anywhere
Compatible EW	-	-	EW-SD50	EW-SD50	-	EW-SD50
Master unit	-	-	-	-	-	-
Firmware update by E-tube project	X	X	X	X	X	X
E-tube port (pcs)	0	1	0	0	0	0
E-tube connector (pcs)	1	0	2	2	0	1
Connector for remote sprinter shifter (pcs)	0	0	0	0	2	0
Port for remote sprinter shifter (pcs)	0	0	0	0	0	0
Average weight	-	-	118g/pair	100g/pair	5.8g/pair	21g
Note						

Rear Derailleur

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		RD-R9150	RD-9070-SS	RD-6870-SS	RD-6870-GS	RD-6770-SS
Pulley cage		SS	SS	SS	G5	SS
Rear speeds		11	11	11	11	10
Max front difference		16T	16T	16T	16T	16T
Total capacity		35T	33T	33T	37T	33T
Max. low sprocket		30T	28T	28T	32T	28T
Min. low sprocket		25T	23T	23T	28T	23T
Max. top sprocket		14T	14T	14T	12T	12T
Min. top sprocket		11T	11T	11T	11T	11T
Mount	Riveted adapter available	-	-	-	-	-
	Direct attachment	X	X	X	X	X
Fluoric coated link bushing		4	4	4	4	4
11T pulley		X	X	X	X	X
Sealed bearing guide pulley		X	X	X	X	-
Sealed bearing tension pulley		X	X	X	X	X
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted
Plate body	Material	CFRP	CFRP	CFRP	CFRP	CFRP
	Finish	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Anodized	Painted	Painted	Painted
Outer plate	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Master unit		-	-	-	-	-
Firmware update by E-tube Project		X	X	X	X	X
E-tube port (pcs)		1	1	1	1	1
E-tube connector (pcs)		0	0	0	0	0
Average weight		204g	217g	257g	268g	270g
Note		w/o bracket spec available				

Front Derailleur

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA
Model no.		FD-R9150	FD-9070-F	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		46-55T	50-56T	46-53T	50-56T
Total capacity		16T	16T	16T	16T
Link bushings		4	4	4	4
Front clamp band	Material	-	-	-	-
	Finish	-	-	-	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted
Outer link	Material	CFRP	CFRP	Resin	Aluminum
	Finish	Plated / Painted	Plated / Painted	Painted	Painted
Inner link	Material	Titanium	Titanium	Steel	Steel
	Finish	-	-	Plated	Plated
Chain guide	Material	Aluminum	Aluminum	Steel	Steel
	Finish	Nickel plated	Nickel 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 (Band type: L size, direct type w/ bolt)		104g	110g	138.5g	160g
Note					

Front Derailleur (Adapter)

Series		DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-AD91-L	SM-AD91-MS	SM-AD90-L	SM-AD90-M	SM-AD90-MS	SM-AD67-L
Front Clamp Band	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Rear Clamp Band	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Clamp band diameter	28.6mm	-	X*	-	-	X*	-
	31.8mm	-	X	-	X	X	-
	34.9mm	X	-	X	-	-	X
Note			*W/Multi Clamp Band		*W/Multi Clamp Band	*W/Multi Clamp Band	

Series		SHIMANO	SHIMANO
Model no.		SM-AD67-M	SM-AD67-MS
Front Clamp Band	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Rear Clamp Band	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Clamp band diameter	28.6mm	-	X*
	31.8mm	X	X
	34.9mm	-	-
Note			*W/Multi Clamp Band

Wireless Unit

Series		SHIMANO
Model no.		EW-WU111
Wireless system		ANT private* Bluetooth(R) LE
Master unit		-
Firmware update by E-tube Project		X
E-tube port (pcs)		2
E-tube connector (pcs)		0
Compatible system		Bluetooth(R) LE corresponding master unit
Function	Gear position	X
	Di2 Battery level	X
	Adjust mode display	X **
Average weight		-
Note		* ANT private has compatibility with ANT+ cycle computer but not freely open profile ** PRO cycle computer has no "Adjust mode display" function.

Electric Wire

Series	SHIMANO	SHIMANO
Model no.	EW-SD50	EW-SD50-I
Type	For External routing	For Built-in routing
Position	-	-
Wireless system	-	-
Compatible system	E-tube system	E-tube system
Compatible EW	-	-
Master unit	-	-
Firmware update by E-tube Project	-	-
E-tube port (QTY)	0	0
E-tube connector (QTY)	2	2
Connector for remote sprinter shifter (QTY)	0	0
Port for remote sprinter shifter (QTY)	0	0
Charging port (QTY)	0	0
Function	Gear position	-
	Di2 Battery level	-
	Adjust mode display	-
	E-tube connection	-
Note		

Cord Cover

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

Grommet

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

Junction-A

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-RS910	EW-RS911	SM-EW90-A	SM-EW90-B
Type	Built-in type	External type	External type	External type
Position	In side of frame or handle	On bike	Under stem	Under stem
Wireless system	-	-	-	-
Compatible system	E-tube system	E-tube system	E-tube system	E-tube system
Compatible EW	EW-SD50	EW-SD50	EW-SD50	EW-SD50
Master unit	-	-	-	-
Firmware update by E-tube Project	X	X	X	X
E-tube port (QTY)	2	3	3	5
E-tube connector (QTY)	0	0	0	0
Connector for remote sprinter shifter (QTY)	0	0	0	0
Port for remote sprinter shifter (QTY)	0	0	0	0
Charging port (QTY)	1	1	1	1
Function	Gear position	X	X	X
	Di2 Battery level	X	X	X
	Adjust mode display	X	X	X
	E-tube connection	X	X	X
Average weight	11g	-	10g	-
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	-	-	-	-	4.1g	8.6g
Note		Cable length 250mm 350mm 50mm	Cable length 450mm 350mm 50mm	Cable length 550mm 550mm 50mm	For built-in type	For External spec (fixed on frame with screw)

Battery

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	BT-DN110-1	BT-DN110-2	BT-DN110-3	SM-BTR1 type1	SM-BTR1 type2
Type	Built-in battery	Built-in battery	Built-in battery	External	External
Chemistry	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Rated voltage (V)	7.4	7.4	7.4	7.4	7.4
Rated capacity (Ah)	0.5	0.5	0.5	0.5	0.5
Rated capacity (Wh)	3.7	3.7	3.7	3.7	3.7
Compatible charger	SM-BCR2	SM-BCR2	SM-BCR2	SM-BCR1	SM-BCR1
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	0	0
Average weight	50g	50g	50g	70g	70g
Note	With recycle mark	Without recycle mark	For Korean market	With recycle mark	Without 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
Average weight	-	-	-
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	SM-BTR2
	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	SM-BTR2	SM-BTR1
Charging cord	Including SM-BCR2	SM-BCC1
Note	PC linkage device with limited function	

PC Linkage Device

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

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
Typical example country / Region	Europe	USA Canada	Japan	Australia New Zealand	China	U.K
Rated power input (V)	220	120	100	240	220	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
Typical example country / Region	Korea	Taiwan	South-Africa	Argentina	Brazil	Brazil
Rated power input (V)	220	110	220/230	220	230	127/220
Cable length (m)	1	1	1	1	1	1
Note						

Wireless Unit

Series	SHIMANO	
Model no.	EW-WU101	
Wireless system	ANT private* Bluetooth(R) LE	
Master unit	-	
Firmware update by E-tube Project	X	
E-tube port (pcs)	2	
E-tube connector (pcs)	0	
Compatible system	Bluetooth(R) LE corresponding master unit	
Function**	Gear position	X
	Di2 Battery level	X
	Adjust mode display	X
	Suspension mode	X
	Shift mode	X
Average weight	-	
Note	<p>* ANT private has compatibility with ANT+ cycle computer but not freely open profile</p> <p>** Display function depends on the specification of cycle computer.</p>	

SW

RD

FD

SMAD

SC

SG

MU

SW

ST

ST

SW

RD

FD

SMAD

WU

EW

EWC

GM

JC

JC

BT

BM

SMBT

SMBC

PCE

BCC

WU

E-BIKE

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Switch Unit

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

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 (11spd)	*X (8/11spd)	*X (8/11spd)
	Start mode	-	X	X
	Automatic shift mode	-	X	X
	Maximum speed (MAX)	** X	** X	** X
	Average speed (AVG)	** X	** X	** X
	Trip distance (DST)	X	X	X
	Trip time (TIME)	** X	** X	** X
	Odometer (ODO)	X	X	X
	Estimated range (RANGE)	X	X	X
	Range overview	X	X	X
	Assist power indicator	X	X	-
	Error Message	X	X	X
	Cadence (rpm)	X	-	-
	Human Out put Power	X	X	-
Calorie	X	-	-	
Setting menu	Trip Distance reset	X	X	X
	Odometer reset	-	-	-
	km / mile	X	X	X
	Clock adjustment	X	X	X
	Back Light on/off	X	X	X
	Back light setting	X	X	-
	Beep on/off	X	X	X
	Setting Clear	X	X	X
	Calorie setting	X	-	-
RD Adjusting	X	-	-	
Language	English	X	X	X
	German	X	X	X
	Dutch	X	X	X
	French	X	X	X
	Spanish	X	X	X
Average weight	-	-	-	
Note	2 Spec of clamp band diameter. φ31.8 and φ35.0 * In case of SEIS ** Option by E-tube project	* In case of SEIS ** Option by E-tube project	* In case of SEIS ** Option by E-tube project	

SW

SC

DU

SMDU

SMDU

SMDU

FC

CRE

CD

BT

BM

EC

EWEX

Drive Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-E8000	DU-E6001	DU-E6010	DU-E6050
Color	1	Standard	Black	Black	Black
	2	-	Gray	-	Gray
	3	-	-	-	-
Compatible Brake type		Disc brake	V-BRAKE, Roller brake, Disc brake	Coaster brake	V-BRAKE, Roller brake, Disc brake
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position		Mid ship	Mid ship	Mid ship	Mid ship
Compatible Wheel Size (mm)		1300-3000	1300-2400	1300-2400	1300-2400
Maximum Rated Power (Watt)		250	250	250	250
Maximum torque (Nm)		70	50	50	50
Rated Voltage		DC 36V	DC 36V	DC 36V	DC 36V
Assist Mode (Maximum ratio %)	BOOST	X (300)	-	-	-
	HIGH	-	230	230	230
	Trail	X (-)	-	-	-
	NORMAL	-	150	150	150
	ECO	X (-)	70	70	70
Power supply for front light		DC 6V	* X	* X	* X
Power supply for rear light		DC 6V	* X	* X	* X
Maximum Current supply Front and Rear light total		2A	1A	1A	1A
Communication		E-tube	E-tube	E-tube	E-tube
Master unit		X	X	X	X
Firmware update by E-tube Project		X	X	X	X
E-tube port (pcs)		2	2	2	2
E-tube connector (pcs)		0	0	0	0
Port for Light (pcs)		0	2	2	2
Terminal for Light (pcs)		1	0	0	0
Port for Speed Sensor (pcs)		1	1	1	1
Chain case compatible		-	X	X	X
Chain Device compatible		X	-	-	-
Torque sensor		X	X	X	X
Crank arm position sensor		X	X	X	X
Bike speed sensor		X	X	X	X
Cadence sensor		X	X	X	X
Walk assist function	Standard	X	X	X	X
	Intelligent	X	-	-	-
	Quick	X	-	-	-
Automatic shift		-	X	X	X
Compatible BB type		24mm Axle Serration	Square type	Square type	Square type
DU fixing bolt (pcs)		-	-	-	-
Note			* By using SM-DUE01	* By using SM-DUE01	* By using SM-DUE01 Speed Limit: 20mph

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	Standard	Standard	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
Model no.		SM-DUE10
Color	1	Standard
	2	-
	3	-
Cable Length(mm)	340	X
	540	X
	1400	X
Note		

Adapter for Light

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

Crankarm

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

Chainring

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-CRE80-B	SM-CRE80	SM-CRE60	SM-CRE60	SM-CRE60
Color	1	Standard	Standard	Black / Silver	Black / Silver	Black / Silver
	2	-	-	Black / Gray	Black / Gray	-
	3	-	-	-	-	-
Gear speed		1	1	1	1	1
Rear speed	11-speed	X	X	X	-	-
	10-speed	X	X	X	-	-
	9-speed	-	-	X	-	-
	Single	-	-	X	X	X
Chain ring teeth	44T	-	-	X	X	X
	38T	X	X	X	X	X
	34T	X	X	-	-	-
	Others	-	-	-	-	-
Chain guard type	Double	-	-	X	-	-
	Single	-	-	-	X	-
	W/O CG	X	X	-	-	X
Chain ring fixing lock nut		Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit
Chain ring cover outer diameter (mm)		-	-	-	-	95.5
Chain case compatible		-	-	-	X	X
Chain line (mm)	53	X	-	-	-	-
	50	-	X	-	-	-
	46.5	-	-	X	X	X
P.C.D. (mm)		104	104	-	-	-
Chain ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Plating	Plating	Painted	Painted	Painted
Spider arm	Material	Aluminum	Aluminum	-	-	-
	Finish	Anodized	Anodized	-	-	-
Fixing bolt	Material	Stainless steel	Stainless steel	-	-	-
	Finish	-	-	-	-	-
Gear arms		4 arm	4 arm	-	-	-
Note						

Chain Device

Series		SHIMANO	SHIMANO
Model no.		SM-CDE80	SM-CDE80
Color	1	Standard	Standard
	2	-	-
	3	-	-
Mount	Drive unit	X	-
	Frame	-	X
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	11-36T	X	X
	11-40T	X	X
	11-42T	X	X
	11-46T	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 53mm frame or 50 mm frame

SW

SC

DU

SMDU

SMDU

SMDU

FC

CRE

CD

BT

BM

EC

EWEX

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-E8010	BT-E6001	BT-E8020	BT-E6000	BT-E6010
Color	1	Black	Black	Black	Gray	Gray
	2	-	Gray	-	Black	Black
	3	-	-	-	-	-
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Down tube	Rear carrier	Down tube	Rear carrier	Down tube
Rated voltage (V)		36	36	36	36	36
Rated capacity (Ah)		14	14	14	11.6	11.6
Rated capacity (Wh)		504	504	504	418	418
Cyclelife span for charge (times)		1000 (more than 60%)	1000 (more than 60%)	1000 (more than 60%)	1000 (more than 60%)	1000 (more than 60%)
Time to charge (hour)		*5	*5	*5	*4	*4
Charge level display		X	X	X	X	X
Error signal		X	X	X	X	X
Charging port		X	-	X	-	-
Tail light / Reflector integration		-	-	-	-	-
Lock system		X	X	X	X	X
Key hole		-	-	-	-	-
System on/off switch		X	X	X	X	X
Compatible battery mount		BM-E8010	SM-BME60 /BM-E6000	BM-E8020	BM-E6000 /SM-BME60	BM-E6010 /SM-BME61
Compatible charger		EC-E6000	SM-BCE60 /EC-E6000	EC-E6000	EC-E6000	EC-E6000
Note		*By EC-E6000	*By EC-E6000	*By EC-E6000	*By EC-E6000	*By EC-E6000

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	Gray	Gray	-
	2	-	-	Black	Black	Black
	3	-	-	-	-	-
Position		Down tube	Down tube	Rear carrier	Rear carrier	Down tube
Charging port		-	-	X	X	X
Lock system		X	X	-	-	-
Key hole		-	-	X	X	X
System on/off switch		-	-	-	-	-
Battery cable		X	X	X	X	X
Battery cable length	250	X	X	-	-	X
	300	X	-	-	-	X
	600	X	-	-	-	-
	900	-	-	-	-	-
	920	-	-	X	X	-
	1000	-	-	-	-	-
	1020	-	-	X	X	-
Compatible battery		BT-E8010	BT-E8020	BT-E6000	BT-E6000	BT-E6010
Note		*By EC-E6000	*By EC-E6000			

Battery Charger

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EC-E6000-1	EC-E6000-2	EC-E6000-4	EC-E6000-6	EC-E6000-7
Color	1	Standard	Standard	Standard	Standard	Standard
	2	-	-	-	-	-
	3	-	-	-	-	-
Typical example country / Region		Europe	USA / Canada	Australia / New Zealand	UK	Korea
Compatible battery		BT-E6000/BT-E6010	BT-E6000/BT-E6010	BT-E6000/BT-E6010	BT-E6000/BT-E6010	BT-E6000/BT-E6010
Compatible battery mount		BM-E6000/BM-E6010	BM-E6000/BM-E6010	BM-E6000/BM-E6010	BM-E6000/BM-E6010	BM-E6000/BM-E6010
Compatible voltage		AC100V-240V 50-60Hz	AC100V-240V 50-60Hz	AC100V-240V 50-60Hz	AC100V-240V 50-60Hz	AC100V-240V 50-60Hz
CE standard		X	X	X	X	X
UL standard		X	X	X	X	X
Korea standard		-	-	-	-	X
Time to full charge (hour)		*4	*4	*4	*4	*4
Time to 80% charge (hour)		2	2	2	2	2
Charging Level Display		-	-	-	-	-
Plug in charging type		X	X	X	X	X
Charging temperature		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
Error signal		X	X	X	X	X
Adapter for battery connector		X	X	X	X	X
Compatible AC power cable		-	-	-	-	-
Built in AC cable		X	X	X	X	X
Built in AC cable length (m)		1	2	1	1	1
Note		*In case of BT-E6000 & BT-E6010	*In case of BT-E6000 & BT-E6010	*In case of BT-E6000 & BT-E6010	*In case of BT-E6000 & BT-E6010	*In case of BT-E6000 & BT-E6010

Di2 Adapter

Series	SHIMANO
Model no.	EW-EX010
Type of Di2 component	Master unit
E-tube connector QTY	-
E-tube port QTY	2
Compatible EW	EW-SD50
Note	Di2 adapter B (for BOSCH e-bike system)

SW

SC

DU

SMDU

SMDU

SMDU

FC

CRE

CD

BT

BM

EC

EWEX

SHIMANO