

ARCHIVE

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SHIMANO

2015-2016

SPEC. HANDBOOK

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

REMARKS Mark X : available / Mark - : not available

All information in this spec. handbook is confidential and has been given to you for the sole use of your product development staff.

This information should not be photo copied.

Word definitions

BB	Bottom bracket	GM	Grommet
BC	Brake cable	HB	Front hub
BCC	Battery cable	HP	Head parts
BCR	Battery charger	HRB	Hub roller brake
BH	Disc brake hose	I-spec	Integration mounting system of brake and shift lever
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	P.C.D.	Pitch circle diameter
CG	Chain guard	PD	Pedal
CJ	Cassette joint	PM	Power modulator
CN	Chain	QR	Quick release
CP	Spoke protector	RD	Rear derailleur
CR	Chainring	RT	Disc brake rotor
CS	Cassette sprocket	RTAD	Disc brake rotor adapter
CT	Chain tensioner	SB	Revo shifter integrated with brake lever
DH	Hub dynamo	SC	Cycle computer
DU	Drive unit	SF	Single free
EC	Battery charger	SG	Internal geared hub
EW	Electric wire	SL	Shift lever
EWC	Cord cover	SPD	Shimano pedaling dynamics
EWEX	Di2 adapter	SPD-SL	Shimano pedaling dynamics-SL
EWV	Wireless unit	ST	Dual control lever / Shift lever integrated with brake lever
FC	Crankset	SW	Switch
FD	Front derailleur	WH	Wheel
FH	Freehub		

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Note: The blue cells are shown new products.

MTB / Shift Lever

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		SL-M9000-R	SL-M9000-L	SL-M9000-IR	SL-M9000-IL	SL-M980-A-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-specII 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			

MTB / 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-R	SL-M8000-L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus
Front speeds		-	-	-	-	-	2/3
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-specII 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	244g/pair	244g/pair
Note				*pull:single, push:double	*pull:single, push:double **I-spec B-type	*pull:single, push:double	

MTB / Shift Lever

Series	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.	SL-M8000-IR	SL-M8000-IL	SL-M8000-B-IR	SL-M8000-B-IL	SL-M780-B-IL	SL-M780-B-IR
Color	1	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
	2-Way release	X	X	X	X	X
Optical Gear Display	With	-	-	-	-	-
	With (removable)	-	-	-	-	-
	Without	X	X	X	X	X
Multi-Bearing construction	2	2	2	2	2	2
SL bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	Painted	Painted	Painted	Painted	Painted
SL cable	Material	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)	230g/pair	230g/pair	-	-	106g	114g
Note	*pull:single, push:double		*pull:single, push:double			

MTB / 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-M670-B-IL	SL-M670-B-IR
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus
Front speeds		2/3	-	3	-	2/3	-
Rear speeds		-	10	-	9	-	10
Compatible RD type		-	MTB 10-speed RD	-	MTB 9-speed RD	-	MTB 10-speed RD
I-spec B-type compatible		-	-	-	-	X	X
I-specII compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	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)		-	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	-	-
	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	-	-
	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	-	-	-	-	-	-
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	116g	121g
Note							

MTB / Shift Lever

Series		SLX	SLX	ZEE	DEORE	DEORE	DEORE
Model no.		SL-M670-L	SL-M670-R	SL-M640	SL-M610-L	SL-M610-R	SL-M610-IL
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus
Front speeds		2/3	-	-	2/3	-	2/3
Rear speeds		-	10	10	-	10	-
Compatible RD type		-	MTB 10-speed RD	MTB 10-speed RD	-	MTB 10-speed RD	-
I-spec B-type compatible		-	-	-	-	-	X
I-specII compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL rotation adjust		-	-	-	-	-	-
SL cable adjust		X	X	X	X	X	X
2/3 mode converter		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	-
	With (removable)	X	X	-	-	-	-
	Without	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	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)		265g/pair	265g/pair	127g	-	-	-
Note							

MTB / Shift Lever

Series	DEORE	DEORE	DEORE	ALIVIO	ALIVIO	ACERA
Model no.	SL-M610-IR	SL-M590-L	SL-M590-R	SL-M4000-L	SL-M4000-R	SL-M3000-L
Color	1	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	10	-	9	-	9	-
Compatible RD type	MTB 10-speed RD	-	MTB 9-speed RD	-	MTB 9-speed RD	-
I-spec B-type compatible	X	-	-	-	-	-
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	X	X	X
Optical Gear Display	With	-	X	X	X	X
	With (removable)	-	-	-	-	-
	Without	X	-	-	-	-
Multi-Bearing construction	-	-	-	-	-	-
SL bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	Stainless steel	Stainless steel	Stainless steel	Stainless Steel
	Finish	-	-	-	-	-
Main lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	Resin & Steel	Steel & Resin
	Finish	-	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	Resin & Steel	Steel & Resin
	Finish	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	Resin	Resin
	Finish	-	-	-	-	-
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel*
	Finish	-	-	-	Standard	Standard
Recommended SL outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP40	OT-SP40	OT-SP40
Average weight (pc)	-	-	-	-	-	-
Note						*Stainless steel option available

MTB / Shift Lever

Series		ACERA	ACERA	ACERA	ALTUS	ALTUS	SHIMANO
Model no.		SL-M3000-R	SL-M360-L	SL-M360-R	SL-M370-L	SL-M370-R	SL-M310-L
Color	1	Series color	Series color	Series color	Black	Black	Series color
	2	-	-	-	Silver	Silver	-
Shifter type		RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus	RAPIDFIRE Plus
Front speeds		-	3	-	3	-	3
Rear speeds		9	-	8	-	9	-
Compatible RD type		MTB 9-speed RD	-	MTB 8-speed RD	-	MTB 9-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	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Main lever body	Material	Steel & Resin	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	Steel & Resin	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-SP40
Average weight (pc)		-	-	-	-	-	-
Note		*Stainless steel option available					

MTB / Shift Lever

Series		SHIMANO	SHIMANO	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-M310-8R	SL-M310-7R	SL-RS47-L	SL-RS47-8R	SL-RS47-7R	SL-RS45-L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE Plus	RAPIDFIRE Plus	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front speeds		-	-	3	-	-	3
Rear speeds		8	7	-	8	7	-
Compatible RD type		MTB 8-speed RD	MTB 7-speed RD	-	MTB 8-speed RD	MTB 7-speed RD	-
I-spec B-type compatible		-	-	-	-	-	-
I-specII 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	-	7	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	Aluminum	Aluminum	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 & Steel	Resin & Steel	-	-	-	-
	Finish	-	-	-	-	-	-
Release lever body	Material	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-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	OGD frame :Chrome plating Compatible with CI-DECK	Compatible with CI-DECK

MTB / Shift Lever

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-RS45-8R	SL-RS45-7R	SL-RS45-6R	SL-RS36-L	SL-RS36-LN	SL-RS36-7R
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 (Friction)	-
Rear speeds		8	7	6	-	-	7
Compatible RD type		MTB 8-speed RD	MTB 7-speed RD	MTB 6-speed RD	-	-	MTB 7-speed RD
I-spec B-type compatible		-	-	-	-	-	-
I-specII compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL rotation adjust		-	-	-	-	-	-
SL cable adjust		X	X	X	X	X	-
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		7	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	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		Compatible with CI-DECK	Compatible with CI-DECK	Compatible with CI-DECK	w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option

MTB / Shift Lever

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-RS36-6R	SL-RS35-L	SL-RS35-LN	SL-RS35-7R	SL-RS35-6R	SL-RS34-LN
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 (Friction)	-	-	3 (Friction)
Rear speeds		6	-	-	7	6	-
Compatible RD type		MTB 6-speed RD	-	-	MTB 7-speed RD	MTB 6-speed RD	-
I-spec B-type compatible		-	-	-	-	-	-
I-specII compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL rotation adjust		-	-	-	-	-	-
SL cable adjust		-	X	X	-	-	X
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		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	Resin	Resin	Resin	Resin	Steel
	Finish	Painted	Resin	Resin	Resin	Resin	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		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	with LED position light, Electric wire length 160mm (both black /gray color spec available) / for Japanese market only

MTB / Shift Lever

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-RS34-6R	SL-RS34-7R	SM-RS34-L	SM-RS34-R	SL-TX50-L	SL-TX50-LN
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	3 (Friction)
Rear speeds		6	7	-	-	-	-
Compatible RD type		MTB 6-speed RD	MTB 7-speed RD	-	-	-	-
I-spec B-type compatible		-	-	-	-	-	-
I-specII compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL rotation adjust		-	-	-	-	-	-
SL cable adjust		-	-	-	-	X	X
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		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	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
	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		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 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		

MTB / Shift Lever

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-TX50-7R	SL-TX50-6R	SL-TX30-LN	SL-TX30-7R	SL-TX30-6R	SL-TZ20-LN
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter
Front speeds		-	-	3 (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-specII compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
SL rotation adjust		-	-	-	-	-	-
SL cable adjust		-	-	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	-
	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							

MTB / Shift Lever

Series		TOURNEY	TOURNEY	TOURNEY
Model no.		SL-TZ20-7R	SL-TZ20-6R	SL-FT55-7R
Color	1	Series color	Series color	Series color
	2	-	-	-
Shifter type		Thumb Shifter	Thumb Shifter	Thumb shifter Plus
Front speeds		-	-	-
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-specII compatible		-	-	-
SL position adjust		-	-	-
SL rotation adjust		-	-	-
SL cable adjust		-	-	-
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
	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	-	-	Resin
	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				

MTB / 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

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MTB / Brake Lever (Hydraulic Disc Brake)

Series	XTR	XTR	SAINT	DEORE XT	DEORE XT	SLX
Model no.	BL-M9000	BL-M9020	BL-M820-B	BL-M8000	BL-M785-B	BL-M675-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	Black	Series color
	2 -	-	-	-	Silver	-
	3 -	-	-	-	-	-
Brake hose (Kit)	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SB	SM-BH90-SB
Hose joint	Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1 Black	Black	Black	Black	Black	Black
	2 -	-	White	-	White	White
Recommended brake caliper	BR-M9000	BR-M9020	BR-M820	BR-M8000	BR-M785	BR-M675
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	X
	Tool	X	-	-	-	-
Free stroke adjust	-	X	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*
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
J-kit option available	X	X	-	X	X	X
Average weight	316g**	360g**	103.2g	399.9g**	117.8g	118.2g
Note	*I-spec II **Kit for front	*I-spec II **Kit for front	*I-spec B-type	*I-spec II **Kit for front	J-Kit spec available *I-spec B-type	J-Kit spec available *I-spec B-type

MTB / Brake Lever (Hydraulic Disc Brake)

Series	ZEE	DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	BL-M640-B	BL-M615	BL-M506	BL-M445	BL-M425	BL-M396
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	Black	Black	Black	Black	Black
	2	-	-	White	Silver	White
	3	-	-	-	White	-
Brake hose (Kit)	SM-BH90-SBS	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
	2	White	White	-	White	-
Recommended brake caliper	BR-M640	BR-M615	BR-M447	BR-M447	BR-M395	BR-M395
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	X	-	-	-
Clamp band	Open clamp	X	X	X	-	-
	I-spec	X*	X*	X*	-	-
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
J-kit option available	-	X	X	X	X	X
Average weight	116.7g	-	-	-	-	-
Note	*I-spec B-type	*I-spec B-type	*I-spec B-type			

MTB / Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO
Model no.		BL-M355
Brake type		Hydraulic Disc brake
Lever size (Finger)		3
Color	1	Black
	2	White
	3	-
Brake hose (Kit)		SM-BH59-JK-SS
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
Recommended brake caliper		BR-M355
Oil		SHIMANO Mineral
Funnel bleeding		X
Reach adjust	Toolless	-
	Tool	X
Free stroke adjust		-
Servo wave mechanism		-
Clamp band	Open clamp	-
	I-spec	-
Brake lever	Material	Steel
	Finish	Painted
Master cylinder	Material	Aluminum
	Finish	Painted
J-kit option available		X
Average weight		-
Note		

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MTB / 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

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MTB / 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	-	-	-	-		
Clamp band	Open clamp	-	-	-	-	
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	
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	
		Finish	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		

MTB / 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 with switch	
		Mechanical disc brake (MTB)	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	

MTB / 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	EZ FIRE Plus	
	Front speeds	-	-	3	-	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	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	-	-	-	-	-	-	
	Main lever body	Material	Resin & Steel	Resin & Steel	Resin	Resin	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
	Release lever body	Material	Resin & Steel	Resin & Steel	Resin	Resin	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-SIS40	OT-SIS40	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
	Recommended power modulator	CANTI brake	-	X with switch	-	-	-	X with switch
		Roller brake	-	X with switch	-	-	-	X with switch
	Clamp band	V-BRAKE	-	SM-PM40	-	-	-	SM-PM40
		Mechanical disc brake (MTB)	-	SM-PM50	-	-	-	SM-PM50
Internal bumper stop	-	-	-	-	X	X		
Lever size (Finger)	2	4	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	Steel/Resin	Steel/Resin	Aluminum	Aluminum	
	Finish	Anodized	Anodized	-	-	Anodized	Anodized	
Bracket	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight		-	-	-	-	-	-	
Note		-	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	-	-	-	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	

MTB / 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	7
	Compatible RD Type		MTB 9-speed RD	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	X	X	X	X	X
	2/3 mode converter		-	-	-	-	-	-
	Max. multiple shifts(Main lever / rear)		3	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 & 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	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
	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	X
	Lever size (Finger)		2	4	2	4	2	4
	Brake cable type		T-type	T-type	T-type	T-type	T-type	T-type
Power adjuster		-	-	-	-	-	-	
Servo-Wave 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	Anodized	Anodized	Anodized	Anodized	
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight		-	-	-	-	-	-	
Note		-	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	-	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	-	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	

MTB / Shift/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		ST-EF51-L (2A)	ST-EF51-L (4A)	ST-EF51-9R(2A)	ST-EF51-9R (4A)	ST-EF51-8R (2A)	ST-EF51-8R (4A)
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	9	8
	Compatible RD Type		-	-	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
	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	Resin & Steel	Resin & Steel
		Finish		-	-	-	-
	Release lever body	Material		Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish		-	-	-	-
	SL cable	Material		Steel	Steel	Steel	Steel
Finish		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
		Mechanical disc brake (MTB)		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
		CANTI 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	4	2
	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	
	Finish		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	Material		Aluminum	Aluminum	Aluminum	Aluminum	
	Finish		Painted	Painted	Painted	Painted	
Clamp bolt	Material		Steel	Steel	Steel	Steel	
	Finish		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	

MTB / Shift/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		ST-EF51-7R (2A)	ST-EF51-7R (4A)	ST-EF51-AL(2A)	ST-EF51-AL(4A)	ST-EF51-A9R(2A)	ST-EF51-A9R (4A)
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		7	7	-	-	9
	Compatible RD Type		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
	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	Resin & Steel	Resin & Steel
		Finish		-	-	-	-
	Release lever body	Material		Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish		-	-	-	-
	SL cable	Material		Steel	Steel	Steel	Steel
Finish		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
		Mechanical disc brake (MTB)		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
		CANTI 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	4	2
	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	
Brake lever	Material		Aluminum	Aluminum	Aluminum	Aluminum	
	Finish		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	Material		Aluminum	Aluminum	Aluminum	Aluminum	
	Finish		Painted	Painted	Painted	Painted	
Clamp bolt	Material		Steel	Steel	Steel	Steel	
	Finish		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	

MTB / Shift/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-EF51-A8R(2A)	ST-EF51-A8R (4A)	ST-EF51-A7R(2A)	ST-EF51-A7R (4A)	ST-EF41-L	ST-EF41-7R	
Color	1	Black	Black	Black	Black	Black	Black	
	2	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	8	8	7	7	-	7	
	Compatible RD Type	MTB 8-speed RD	MTB 8-speed RD	MTB 7-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	Resin
		Finish	-	-	-	-	-	-
	Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	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-SIS40	OT-SIS40		
Brake lever	Compatible brake type	V-BRAKE	X	X with switch	X	X with switch	X	
		Mechanical disc brake (MTB)	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	-	
		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	4	2	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	Steel/Resin	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)	-	-	
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	
		Finish	Painted	Painted	Painted	Painted	Painted	
	Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Plated	Plated	Plated	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				

MTB / Shift/Brake Lever

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

MTB / Rear Derailleur

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		RD-M9000-SGS	RD-M9000-GS	RD-M981-GS	RD-M981-SGS	RD-M986-GS	RD-M986-SGS
Pulley cage		SGS	GS	GS	SGS	GS	SGS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		11	11	10	10	10	10
Compatible chain		HG-X11	HG-X11	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	-	-	X	X
	Double servo	-	-	-	-	-	-
Direct attachment (Conventional)		X	X	X	X	X	X
Direct mount compatible		X*	X*	X*	X*	X*	X*
Riveted adapter	Road type	-	-	-	-	-	-
	BMX-Track type	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		18T	10T	18T	18T	18T	18T
Total capacity		45T	37T	35T	41T	35T	41T
Low sprocket	Max.	40/42T**	40/42T**	36T	36T	36T	36T
	Min.	40T	40T	32T	32T	32T	32T
Top sprocket	Max.	11T	11T	11T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		4	4	4	4	4	4
Pulley	G pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Sunken type pulley bolt		X	X	X	X	X	X
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
B-Axle	Hollow axle	X	X	X	X	X	X
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
B-Axle 2	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Plate body	Material	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Outer plate	Material	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Stroke adjusting Screw	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Average weight (pc)		224g	221g	179g	181g	211g	213g
Note		*w/o bracket spec available **42T for 1x11 only	*w/o bracket spec available **42T for 1x11 only	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available

MTB / Rear Derailleur

Series		SAINT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		RD-M820-SS	RD-M8000-SGS	RD-M8000-GS	RD-M781-GS	RD-M781-SGS	RD-M786-GS
Pulley cage		SS	SGS	GS	GS	SGS	GS
Color	1	Series color	Series color	Series color	Silver	Silver	Silver
	2	-	-	-	Black	Black	Black
Rear speeds		10	11	11	10	10	10
Compatible chain		HG-X 10-speed	HG-X11	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Top-Normal spring type	SHADOW RD	-	-	-	X	X	-
	SHADOW RD+	X	X	X	-	-	X
	Double servo	-	-	-	-	-	-
Direct attachment (Conventional)		X	X	X	X	X	X
Direct mount compatible		X	X*	X*	X*	X*	X*
Riveted adapter	Road type	-	-	-	-	-	-
	BMX-Track type	-	-	-	-	-	-
Mode converter		X	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		Single	18T	10T	18T	22T	18T
Total capacity		25T	47T	39T	35T	43T	35T
Low sprocket	Max.	28/36T*	40/42T**	40/42T**	36T	36T	36T
	Min.	23T	40T	40T	32T	32T	32T
Top sprocket	Max.	12T	11T	11T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		5	4	4	4	4	4
Pulley	G pulley bearing	-	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Sunken type pulley bolt		X	X	X	X	X	X
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
B-Axle	Hollow axle	X	X	X	X	X	X
	Material	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
B-Axle 2	Material	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	-	-	-	-	-
Bracket body	Hollow axle	X	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
P-Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Plate body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	-	-	-	-	-
Stroke adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average weight (pc)		280g (w/o mode converter)	275g	271g	234g	238g	262g
Note		*w/o bracket spec available	*w/o bracket spec available **42T for 1x11 only	*w/o bracket spec available **42T for 1x11 only	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available

MTB / Rear Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX
Model no.		RD-M786-SGS	RD-M772-GS	RD-M772-SGS	RD-M771-GS	RD-M771-SGS	RD-M670-GS
Pulley cage		SGS	GS	SGS	GS	SGS	GS
Color	1	Silver	Series color	Series color	Series color	Series color	Series color
	2	Black	-	-	-	-	-
Rear speeds		10	9	9	9	9	10
Compatible chain		HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG-X 10-speed
Top-Normal spring type	SHADOW RD	-	X	X	-	-	X
	SHADOW RD+	X	-	-	-	-	-
	Double servo	-	-	-	X	X	-
Direct attachment (Conventional)		X	X	X	X	X	X
Direct mount compatible		X*	-	-	-	-	X*
Riveted adapter	Road type	-	-	-	-	-	-
	BMX-Track type	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		22T	22T	22T	22T	22T	18T
Total capacity		43T	35T	45T	35T	45T	35T
Low sprocket	Max.	36T	36T	36T	34T	34T	36T
	Min.	32T	32T	32T	32T	32T	32T
Top sprocket	Max.	11T	11T	11T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		4	4	4	4	4	3
Pulley	G pulley bearing	Sealed Bearing	-	-	-	-	-
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	-
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Sunken type pulley bolt		X	X	X	X	X	X
Bracket	Material	Aluminum	Steel	Steel	-	-	Steel
	Finish	Painted	Painted	Painted	-	-	Painted
B-Axle	Hollow axle	X	X	X	X	X	X
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
B-Axle 2	Hollow axle	-	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	-	-	Stainless steel
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Plate body	Material	Aluminum	Aluminum	Aluminum	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	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stroke adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average weight (pc)		266g	227g	229g	228g	238g	278g
Note		*w/o bracket spec available					*w/o bracket spec available

MTB / Rear Derailleur

Series	SLX	SLX	SLX	ZEE	DEORE	DEORE	
Model no.	RD-M670-SGS	RD-M675-GS	RD-M675-SGS	RD-M640-SS	RD-M610-GS	RD-M610-SGS	
Pulley cage	SGS	GS	SGS	SS	GS	SGS	
Color	1	Series color	Series color	Series color	Series color	Black	Black
	2	-	-	-	-	Silver	Silver
Rear speeds	10	10	10	10	10	10	
Compatible chain	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	
Top-Normal spring type	SHADOW RD	X	-	-	-	X	X
	SHADOW RD+	-	X	X	X	-	-
	Double servo	-	-	-	-	-	-
Direct attachment (Conventional)	X	X	X	X	X	X	
Direct mount compatible	X*	X*	X*	X	X*	X*	
Riveted adapter	Road type	-	-	-	-	-	-
	BMX-Track type	-	-	-	-	-	-
Mode converter	-	-	-	-*	-	-	
Cable adjuster	-	-	-	-	-	-	
Max. front difference	22T	18T	22T	Single	18T	22T	
Total capacity	43T	35T	43T	25T	35T	43T	
Low sprocket	Max.	36T	36T	36T	36T(Freeride spec) 28T(DH spec)	36T	36T
	Min.	32T	32T	32T	23T	32T	32T
Top sprocket	Max.	11T	11T	11T	12T	11T	11T
	Min.	11T	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	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	X	X	X	X	X	X
Bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
B-Axle	Hollow axle	X	X	X	X	X	X
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
B-Axle 2	Hollow axle	-	-	-	-	X	X
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Plate body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Steel	Steel	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
	Finish	-	-	-	-	Plated	Plated
Stroke adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average weight (pc)	281g	306g	313g	275g	299g	308g	
Note	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available	*Freeride spec and DH spec available	*w/o bracket spec available	*w/o bracket spec available	

MTB / Rear Derailleur

Series		DEORE	DEORE	DEORE	DEORE	ALIVIO	ACERA
Model no.		RD-M615-GS	RD-M615-SGS	RD-M592-SGS	RD-M591-SGS	RD-M4000	RD-M3000
Pulley cage		GS	SGS	SGS	SGS	SGS	SGS
Color	1	Black	Black	Series color	Silver	Series color	Series color
	2	Silver	Silver	-	Black	-	-
Rear speeds		10	10	9	9	9	9
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Top-Normal spring type	SHADOW RD	-	-	X	-	X	X
	SHADOW RD+	X	X	-	-	-	-
	Double servo	-	-	-	X	-	-
Direct attachment (Conventional)		X	X	X	X	X	X
Direct mount compatible		X*	X*	-	-	X*	X*
Riveted adapter	Road type	-	-	-	-	-	-
	BMX-Track type	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	X	X
Max. front difference		18T	22T	22T	22T	22T	22T
Total capacity		35T	43T	45T	45T	45T	45T
Low sprocket	Max.	36T	36T	36T	34T	36T	36T
	Min.	32T	32T	32T	28T	32T	32T
Top sprocket	Max.	11T	11T	12T	12T	12T	12T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		3	3	3	3	2	1
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel
Sunken type pulley bolt		X	X	X	X	X	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	Stainless steel
	Finish	-	-	-	-	-	-
B-Axle 2	Hollow axle	X	X	-	-	X	-
	Material	Stainless steel	Stainless steel	Stainless steel	-	Steel	Stainless steel
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	Painted	Painted
Plate body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Resin	Resin
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	CFRP	PA+GF
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Stainless steel	Stainless steel
	Finish	Plated	Plated	Plated	Plated	-	-
Stroke adjusting Screw	Material	Steel	Steel	Steel	Steel	Stainless steel	Steel
	Finish	Plated	Plated	Plated	Plated	-	Zinc plated
Average weight (pc)		330g	339g	-	-	-	-
Note		*w/o bracket spec available	*w/o bracket spec available	-	-	* w/o bracket spec available	* w/o bracket spec available

MTB / Rear Derailleur

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

MTB / Rear Derailleur

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		RD-TX55-SGS	RD-TX35-SGS	RD-FT55-SS	RD-FT35-SS	RD-TZ50-GS	RD-TY21-A-SS
Pulley cage		SGS	SGS	SS	SS	GS	SS
Color	1	Series color	Series color	Series color	Series color	Black	Silver
	2	-	-	-	-	-	-
Rear speeds		7/6	7/6	7/6	7/6	6	6
Compatible chain		HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 6-speed	HG-UG 6-speed
Top-Normal spring type	SHADOW RD	-	-	-	-	-	-
	SHADOW RD+	-	-	-	-	-	-
	Double servo	X	X	-	-	-	-
Direct attachment (Conventional)		X	X	X	X	X	X
Direct mount compatible		-	-	-	-	-	-
Riveted adapter	Road type	X	X	X	X	X	X
	BMX-Track type	X	X	X	X	X	X
Mode converter		-	-	-	-	-	-
Cable adjuster		X	X	X	X	X	X
Max. front difference		20T	20T	Single	Single	20T	13T
Total capacity		43T	43T	17T	17T	34T	28T
Low sprocket	Max.	34T	34T	28T	28T	28T	28T
	Min.	28T	28T	28T	28T	28T	28T
Top sprocket	Max.	14T	14T	14T	14T	14T	14T
	Min.	11T	11T	11T	11T	14T	14T
Fluoric coated link bushings		-	-	-	-	-	-
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	13/13T	13/13T	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
B-Axle 2	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Bracket body	Material	Resin	Resin	Resin	Resin	Steel	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	Painted	Painted	Chrome Plating + Name Plate	Painted	Painted	Zinc plated
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Painted	Zinc plated
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Nickel Plating	Chrome Plating	Painted	Painted	Zinc plated
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	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			

MTB / Rear Derailleur

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

MTB / 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)
		31.8mm	X (w/ M size adapter)	X (w/ M size adapter)	-	-	X (w/ M size adapter)
		34.9mm	X	X	-	-	X
	E-type	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)		130.0g	112.0g	117.0g	102g	129g	111g
Note							

MTB / 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	BB Plate	-	-	-	-	-
		Without BB Plate	-	X	-	-	-
Direct Mount		X	-	-	-	X	-
Cable route type	Dual-Pull	-	-	X	-	X	-
	Top-Pull exclusive	-	-	X	-	X	-
	Down-Pull exclusive	-	-	-	X	-	X
	Front-Pull	X	X	-	-	-	-
Chain line (mm)		48.8*	48.8*	48.8	48.8	48.8*	48.8*
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth		34-38T	34-38T	34-38T	34-38T	34-38T	34-38T
Total capacity		10T	10T	10T	10T	10T	10T
Applicable Top-Mid tooth difference		-	-	-	-	-	-
Multi access cable fixing bolt		-	-	-	-	-	-
Angled stroke adjust bolt		X	X	X	X	X	X
Angled clamp band design		-	-	X	X	-	-
Link bushings		6	6	8	2	8	2
Front clamp band	Material	-	-	Aluminum	Aluminum	-	-
	Finish	-	-	Painted	Painted	-	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	-	Stainless steel	Stainless steel	-	-
	Finish	-	-	-	-	-	-
BB plate	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum	Steel	Aluminum	Steel
	Finish	Painted	Painted	Anodized	Painted	Anodized	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stroke Adjusting Screw	Material	Steel	Steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	-	-	-	-
Average weight (pc)		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.

MTB / Front Derailleur

Series		XTR	XTR	XTR	XTR	XTR	XTR	
Model no.		FD-M980	FD-M980-E	FD-M981	FD-M981-D	FD-M985	FD-M985-E	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	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	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	BB Plate	-	X	-	-	-	X
		Without BB Plate	-	X	-	-	-	-
Direct Mount		-	-	-	X	-	-	
Cable route type	Dual-Pull	X	X	X	X	X	X	
	Top-Pull exclusive	-	-	X	X	-	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	-	-	-	
Chain line (mm)		50	50	50	50	46.8 for 38T 48.8 for 40-44T	48.8 for 40-44T	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		42T	42T	42T	42T	38-44T	40-44T	
Total capacity		18T	18T	18T	18T	14T	14T	
Applicable Top-Mid tooth difference		10T	10T	10T	10T	-	-	
Multi access cable fixing bolt		X	X	-	-	X	X	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	-	X	-	X	-	
Link bushings		2	2	8	8	2	2	
Front clamp band	Material	Aluminum	-	Aluminum	-	Aluminum	-	
	Finish	Anodized	-	Anodized	-	Anodized	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Painted	Anodized	Anodized	
Clamp bolt	Material	Stainless steel	-	Stainless steel	-	Stainless steel	-	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	Aluminum	-	-	-	Aluminum	
	Finish	-	Painted	-	-	-	Painted	
Outer link	Material	Steel	Steel	Aluminum	Aluminum	Steel	Steel	
	Finish	Painted	Painted	Anodized	Anodized	Painted	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 Plated	Nickel Plated	Nickel Plated	Nickel Plated	Nickel Plated	Nickel Plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Aluminum	Aluminum	Aluminum	Aluminum	Stainless steel	Stainless steel	
	Finish	Anodized	Anodized	Anodized	Anodized	-	-	
Average weight (pc)		125g	142g (w / o BB plate)	148g	143g	135g	155g	
Note		*Outer cable stopper integrated design					*Outer cable stopper integrated design *new FD mount position is required when used for 44T	

MTB / Front Derailleur

Series		XTR	XTR	XTR	DEORE XT	DEORE XT	DEORE XT	
Model no.		FD-M985-E2	FD-M986	FD-M986-D	FD-M8000-H	FD-M8000-L	FD-M8000-D	
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	11	11	11	
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X11	HG-X11	HG-X11	
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	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)		46.8 for 38T 48.8 for 40-44T	46.8 for 38T 48.8 for 40-44T	46.8 for 38T 48.8 for 40-44T	50	50	50	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		38-44T	38-44T	38-44T	40T	40T	40T	
Total capacity		14T	14T	14T	18T	18T	18T	
Applicable Top-Mid tooth difference		-	-	-	10T	10T	10T	
Multi access cable fixing bolt		X	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		-	X	-	X	X	-	
Link bushings		2	8	8	6	6	6	
Front clamp band	Material	-	Aluminum	-	Aluminum	Aluminum	-	
	Finish	-	Anodized	-	Painted	Painted	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted	
Clamp bolt	Material	-	Stainless steel	-	Stainless steel	Stainless steel	-	
	Finish	-	-	-	-	-	-	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Anodized	Anodized	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Aluminum	Aluminum	Steel	Steel	Steel	
	Finish	Nickel Plated	Nickel Plated	Nickel 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	Aluminum	Aluminum	Steel	Steel	Steel	
	Finish	-	Anodized	Anodized	Black	Black	Black	
Average weight (pc)		125g	127g	122g	151g	135g	136g	
Note								

MTB / Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		FD-M8000-E	FD-M8020-H	FD-M8020-L	FD-M8020-D	FD-M8020-E	FD-M8025-H	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	2	2	2	2	2	
	Rear	11	11	11	11	11	11	
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	
Action	Top Swing	-	-	-	-	-	-	
	Down Swing	-	-	-	-	-	X	
	Side Swing	X	X	X	X	X	-	
Mount	Clamp Band	28.6mm	-	X (w/ S size adapter)	X (w/ S size adapter)	-	X (w/ S size adapter)	
		31.8mm	-	X (w/ M size adapter)	X (w/ M size adapter)	-	X (w/ M size adapter)	
		34.9mm	-	X	X	-	X	
	E-type	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		40T	34-38T	34-38T	34-38T	34-38T	34-38T	
Total capacity		18T	10T	10T	10T	10T	10T	
Applicable Top-Mid tooth difference		10T	-	-	-	-	-	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		-	X	X	-	-	X	
Link bushings		6	6	6	6	6	8	
Front clamp band	Material	-	Aluminum	Aluminum	-	-	Aluminum	
	Finish	-	Painted	Painted	-	-	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	-	Stainless steel	Stainless steel	-	-	Stainless steel	
	Finish	-	-	-	-	-	Black	
BB plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Plated	Plated	Plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	Black	
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Steel	Steel	Stainless steel	
	Finish	Black	Black	Black	Black	Black	-	
Average weight (pc)		121g	145g	129g	134g	120g	149g	
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.		

MTB / Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		FD-M8025-L	FD-M8025-D	FD-M8025-E	FD-M780-A-B	FD-M780-A-E	FD-M781-A-B	
Color	1	Series color	Series color	Series color	Black	Black	Black	
	2	-	-	-	-	-	Silver	
Speeds	Front	2	2	2	3	3	3	
	Rear	11	11	11	10	10	10	
Compatible chain		HG-X11	HG-X11	HG-X11	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)	-	
		31.8mm	X (w/ M size adapter)	-	-	X (w/ M size adapter)	-	
		34.9mm	X	-	-	X	-	
	E-type	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		34-38T	34-38T	34-38T	40-42T	40-42T	40-42T	
Total capacity		10T	10T	10T	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	
	Finish	Black	-	-	-	-	-	
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	Plated	Plated	Plated	Chrome Plated	Chrome Plated	Chrome Plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	-	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Average weight (pc)		131g	139g	124g	152g	141g	151g (Dual pull) 147g (Top pull)	
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.				

MTB / Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		FD-M781-A-D	FD-M785	FD-M785-E2	FD-M786	FD-M786-D	FD-M770	
Color	1	Black	Black	Black	Black	Black	Series color	
	2	Silver	-	-	Silver	Silver	-	
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	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	66-69	
Top gear teeth		40-42T	38-44T	38-44T	38-44T	38-44T	44/48T	
Total capacity		18T	14T	14T	14T	14T	22T	
Applicable Top-Mid tooth difference		10T	-	-	-	-	12T	
Multi access cable fixing bolt		-	X	X	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		-	X	-	X	-	X	
Link bushings		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	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	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)		143g (Dual pull) 139g (Top pull)	136g	127g	155g	146g	152g	
Note			*Outer cable stopper integrated design				*Outer cable stopper integrated design	

MTB / Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX	
Model no.		FD-M770-E	FD-M771	FD-M771-D	FD-M772A	FD-M773	FD-M672-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	9	9	9	9	10	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG-X 10-speed	
Action	Top Swing	X	-	-	X	-	-	
	Down Swing	-	X	X	-	X	-	
	Side Swing	-	-	-	-	-	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	BB Plate	X	-	-	-	-	-
		Without BB Plate	X	-	-	-	-	-
Direct Mount	-	-	X	-	-	-		
Cable route type	Dual-Pull	X	X	X	X (w/AdapterM)	X (w/AdapterM)	-	
	Top-Pull exclusive	-	-	-	X	X	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	-	-	X	
Chain line (mm)		50	50	50	50	50	50	
Chain stay angle		66-69	66-69	66-69	63-66	66-69	66-69	
Top gear teeth		44T	44T	44T	44/48T	44/48T	40-42T	
Total capacity		22T	22T	22T	22T	22T	18T	
Applicable Top-Mid tooth difference		12T	12T	12T	12T	12T	10T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	-	-	X	
Angled clamp band design		-	X	-	X	X	X	
Link bushings		2	8	8	2	7	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	
	Finish	Painted	Painted	-	Painted	Painted	Painted	
Clamp bolt	Material	-	Stainless steel	-	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
BB plate	Material	Aluminum	-	-	-	-	-	
	Finish	Painted	-	-	-	-	-	
Outer link	Material	Steel	Aluminum	Aluminum	Steel	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	
	Finish	-	-	-	-	-	Black	
Average weight (pc)		166g	155g	147g	160g	174g	152.1g	
Note								

MTB / Front Derailleur

Series		SLX	SLX	SLX	SLX	SLX	SLX	
Model no.		FD-M672-L	FD-M672-D	FD-M672-E	FD-M677-H	FD-M677-L	FD-M677-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	10	10	10	
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	
Action	Top Swing	-	-	-	-	-	-	
	Down Swing	-	-	-	-	-	-	
	Side Swing	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)	
		31.8mm	X (w/ M size adapter)	-	-	X (w/ M size adapter)	X (w/ M size adapter)	
		34.9mm	X	-	-	X	X	
	E-type	BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	X	-	-	-
Direct Mount	-	X	-	-	-	-	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	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	36-38T	36-38T	36-38T	
Total capacity		18T	18T	18T	14T	14T	14T	
Applicable Top-Mid tooth difference		10T	10T	10T	-	-	-	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		X	-	-	X	X	-	
Link bushings		6	6	6	6	6	6	
Front clamp band	Material	Aluminum	-	-	Aluminum	Aluminum	-	
	Finish	Painted	-	-	Painted	Painted	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp 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	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	Steel	Steel	Steel	
	Finish	Black	Black	Black	Black	Black	Black	
Average weight (pc)		136.5g	140.5g	126.5g	149g	133g	141g	
Note							*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.	

MTB / Front Derailleur

Series		SLX	SLX	SLX	SLX	SLX	SLX	
Model no.		FD-M677-E	FD-M670-A-B	FD-M670-A-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	3	3	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	X	-	-	X	
	Down Swing	-	-	-	X	X	-	
	Side Swing	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	BB Plate	-	-	-	-	-	-
		Without BB Plate	X	-	X	-	-	-
Direct Mount	-	-	-	-	X	-		
Cable route type	Dual-Pull	-	X	X	X	X	X	
	Top-Pull exclusive	-	-	-	X	X	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	X	-	-	-	-	-	
Chain line (mm)		48.8	50	50	50	50	50	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		36-38T	40-42T	40-42T	40-42T	40-42T	44T	
Total capacity		14T	18T	18T	18T	18T	22T	
Applicable Top-Mid tooth difference		-	10T	10T	10T	10T	12T	
Multi access cable fixing bolt		-	X	X	-	-	-	
Angled stroke adjust bolt		X	X	X	X	X	X	
Angled clamp band design		-	X	-	X	-	X	
Link bushings		6	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	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	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	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	-	-	-	-	-	
Average weight (pc)		124g	153g	142g	155g	145g	-	
Note		*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.					*Outer cable stopper integrated design	

MTB / 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	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)		170g	-	150g	-	-	-	
Note								

MTB / 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	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)		-	-	-	-	-	-	
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.		

MTB / 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)	-	
		31.8mm	X (w/ M size adapter)	-	-	X (w/ M size adapter)	-	
		34.9mm	X	-	-	X	-	
	E-type	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)		-	-	-	-	-	-	
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.				

MTB / 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	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)		-	-	-	-	-	-	
Note								

MTB / 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	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)		-	-	-	-	-	-	
Note		* Slits are required on the right side edge of BB shell						

MTB / 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	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)		-	-	-	-	-	-	
Note								

MTB / 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	
	E-type	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)		-	-	-	-	-	-	
Note								

MTB / 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	
	E-type	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)		-	-	-	-	-	-	
Note								

MTB / Front Derailleur

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	
Model no.		FD-TY500-TS3	FD-TY500-TS6	FD-TY510-TS3	FD-TY510-TS6	FD-TY300-DS6	FD-TY300-DS6	
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	-	-	
	Down Swing	-	-	-	-	X	X	
	Side Swing	-	-	-	-	-	-	
Mount	Clamp Band	28.6mm	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X	
		31.8mm	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X	
		34.9mm	X	X	X	X	-	
	E-type	BB Plate	-	-	-	-	-	-
		Without BB Plate	-	-	-	-	-	-
Direct Mount		-	-	-	-	-	-	
Cable route type	Dual-Pull	X	X	X	X	-	-	
	Top-Pull exclusive	-	-	-	-	X	X	
	Down-Pull exclusive	-	-	-	-	X	X	
	Front-Pull	-	-	-	-	-	-	
Chain line (mm)		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	66-69	66-69	
Top gear teeth		42T	42T	48T	48T	42T	42T	
Total capacity		18T	18T	20T	20T	18T	18T	
Applicable Top-Mid tooth difference		8T	8T	10T	10T	8T	8T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		-	-	-	-	-	-	
Angled clamp band design		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	Painted	Painted	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Painted	Painted	
Clamp 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 / Resin	Steel / Resin	
	Finish	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Zinc Plated	Zinc Plated	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome Plated / Painted	Chrome Plated / Painted	Chrome Plated / Painted	Chrome Plated / Painted	Zinc Plated	Zinc Plated	
Cable fixing 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)		-	-	-	-	-	-	
Note								

MTB / Front Derailleur

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	
Model no.		FD-TX51-3	FD-TX51-6	FD-TY10	FD-TZ30	FD-TZ31	
Color	1	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	
Speeds	Front	3	3	3	3 (friction)	3 (friction)	
	Rear	7/6	7/6	7/6	7/6	7/6	
Compatible chain		HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	
Action	Top Swing	X	X	-	-	-	
	Down Swing	-	-	X	X	X	
	Side Swing	-	-	-	-	-	
Mount	Clamp Band	28.6mm	X (w/ S size adapter)	X (w/ S size adapter)	X	X	
		31.8mm	X (w/ M size adapter)	X (w/ M size adapter)	X	X	
		34.9mm	X	X	X*	-	-
	E-type	BB Plate	-	-	-	-	-
		Without BB Plate	-	-	-	-	-
Direct Mount	-	-	-	-	-		
Cable route type	Dual-Pull	X	X	-	-	-	
	Top-Pull exclusive	-	-	-	X	X	
	Down-Pull exclusive	-	-	-	X	X	
	Front-Pull	-	-	-	-	-	
Chain line (mm)		47.5 / 50	47.5 / 50	47.5	47.5	47.5	
Chain stay angle		63-66	66-69	66-69	66-69	66-69	
Top gear teeth		48T	48T	42T	42T	48T	
Total capacity		20T	20T	18T	18T	20T	
Applicable Top-Mid tooth difference		10T	10T	8T	8T	10T	
Multi access cable fixing bolt		-	-	-	-	-	
Angled stroke adjust bolt		-	-	-	-	-	
Angled clamp band design		X	X	-	-	-	
Link bushings		-	-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Painted	Painted	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel Plated	Nickel Plated	Zinc plated	Zinc plated	Zinc plated	
BB plate	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel / Resin	Steel / Resin	
	Finish	Zinc plated	Zinc plated	Zinc plated	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Zinc plated	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated / Painted	Zinc plated / Painted	Zinc plated / Painted	Painted	Painted	
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel Plated	Nickel Plated	Nickel Plated	Nickel Plated	Nickel 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							

MTB / Brake (Disc Brake)

Series	XTR	XTR	SAINT	DEORE XT	DEORE XT	SLX	
Model no.	BR-M9000	BR-M9020	BR-M820	BR-M8000	BR-M785	BR-M675	
Color	1	Series color	Series color	Series color	Black	Series color	
	2	-	-	-	Silver	-	
	3	-	-	-	-	-	
Brake type	Hydraulic Disc Brake	Hydraulic Disc Brake	Hydraulic Disc Brake	Hydraulic Disc Brake	Hydraulic Disc Brake	Hydraulic Disc Brake	
Brake hose (kit)	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBL5	SM-BH90-SBM	SM-BH90-SB	SM-BH90-SB	
Hose joint	Banjo	Banjo	Banjo	Banjo	Banjo	Banjo	
Brake hose color (kit)	1	Black	Black	Black	Black	Black	
	2	-	-	White	-	White	
ICE TECHNOLOGY pad compatible caliper	X	X	X	X	X	X	
Brake pad	Standard 1	G02A Resin	J02 A Resin	H01A Resin	G02A Resin	G01A Resin	G01S Resin
	Standard 2	G04Ti Metal	J04C Metal	H03C Metal	J02 A Resin	F03C Metal	F03C Metal
	Option 1	J02 A Resin	G02A Resin	-	G04S Metal	G03S Metal	G03S Metal
	Option 2	J04C Metal	G04Ti Metal	-	J04C Metal	F01A Resin	F01A Resin
Recommended brake lever	BL-M9000	BL-M9020	BL-M820	BL-M8000	BL-M785/BL-T785	BL-M675	
Recommended brake rotor	*SM-RT99	*SM-RT99	SM-RT99 SM-RT86	SM-RT81 SM-RT86	SM-RT81 SM-RT86	SM-RT68 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	2	
Piston material	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	
Caliper	Mono-body	-	X	-	-	-	
	Material	Magnesium	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Paint	Paint	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Ti	Ti	Stainless steel	Stainless steel	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 (Resin pad w / radiator fin)	399.9g	414.2g	427.8g	
Note	J-Kit spec available *140mm for rear only **Titanium	J-Kit spec available *140mm for rear only **Titanium		J-Kit spec available	J-Kit spec available	J-Kit spec available	

MTB / Brake (Disc Brake)

Series		ZEE	DEORE	DEORE	SHIMANO	SHIMANO	ALIVIO
Model no.		BR-M640	BR-M615	BR-M615	BR-M447	BR-M446	BR-M4050
Color	1	Series color	Black	Black	Black	Black	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-SB5	SM-BH90-SS	SM-BH90-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose joint		Banjo	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	White	White	White	White	White	-
ICE TECHNOLOGY pad compatible caliper		X	X	X	-	-	-
Brake pad	Standard 1	D01S Resin	G01S Resin	G01S Resin	B01S Resin	B01S Resin	B01S Resin
	Standard 2	D02S Metal	G03S Metal	G03S Metal	-	-	-
	Option 1	H01A Resin	F01A Resin	F01A Resin	-	-	-
	Option 2	-	-	-	-	-	-
Recommended brake lever		BL-M640	BL-M615	BL-M615	BL-M445 / BL-M506	BL-T445	ST-M4050
Recommended brake rotor		SM-RT68 SM-RT66	SM-RT64 SM-RT66	SM-RT64 SM-RT66	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		4	2	2	2	2	2
Piston material		Ceramic	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	Stainless 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)		314g (Resin pad)	-	-	-	-	-
Note				J-Kit spec available	J-Kit spec available SHIMANO logo	SHIMANO logo	J-Kit spec available

MTB / Brake (Disc Brake)

Series		ACERA	SHIMANO	SHIMANO	SHIMANO	TOURNEY TX
Model no.		BR-M3050	BR-M395	BR-M375	BR-M355	BR-TX805
Color	1	Series color	Black	Black	Black	Black
	2	-	White	Silver	White	-
	3	-	-	-	-	-
Brake type		Hydraulic Disc Brake	Hydraulic Disc Brake	Mechanical Disc-brake	Hydraulic Disc Brake	Mechanical Disc-brake
Brake hose (kit)		SM-BH59-JK-SS	SM-BH59-JK-SS	Cable	SM-BH59-JK-SS	Cable
Hose joint		Straight	Straight	-	Straight	-
Brake hose color (kit)	1	Black	Black	-	Black	-
	2	-	-	-	-	-
ICE TECHNOLOGY pad compatible caliper		-	-	-	-	-
Brake pad	Standard 1	B01S Resin	B01S Resin	B01S Resin	B01S Resin	B01S Resin
	Standard 2	-	-	-	-	-
	Option 1	-	-	-	-	-
	Option 2	-	-	-	-	-
Recommended brake lever		ST-M3050	BL-M425 / BL-M395	V-BRAKE BL (1.5-2.5 finger)	BL-M355	V-BRAKE BL (1.5-2.5 finger)
Recommended brake rotor		SM-RT54 SM-RT56	SM-RT30 SM-RT54 SM-RT56	SM-RT30 SM-RT54 SM-RT56	SM-RT30 SM-RT54 SM-RT56	SM-RT20 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	2	1	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	J-Kit spec available SHIMANO logo	-	J-Kit spec available	-

MTB / 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		

ARCHIVE

MTB / Crankset

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		FC-M9020-3	FC-M9020-2	FC-M9020-1	FC-M9020-B1	FC-M9000-2	FC-M9000-1
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		11	11	11	11	11	11
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11
Chain line (mm)		50	48.8	50.4	53.4	48.8	50.4
P.C.D. (mm)		96/64	96/64	96	96	96/64	96
Gear arms		4arm ***	4arm ***	4arm ***	4arm ***	4arm ***	4arm ***
Arm adapter		Integrate	Integrate	Integrate	Integrate	Integrate	Integrate
Chain ring combination		40-30-22T	38-28T 36-26T 34-24T	36, 34, 32, 30T (SM-CRM90)	32, 30T (SM-CRM90)	38-28T 36-26T 34-24T	36, 34, 32, 30T (SM-CRM90)
Q-factor (mm)		168	168	168	174	158	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	-	-	-	-	-	-
	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	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum/CFRP	Titanium / Aluminum / CFRP	Stainless steel / Aluminum / CFRP **	Stainless steel / Aluminum / CFRP **	Titanium / Aluminum / CFRP	Stainless steel / Aluminum / CFRP **
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	Titanium/CFRP	-	-	-	-	-
	Finish	Shot Blasting	-	-	-	-	-
Inner ring	Material	Aluminum	Aluminum	-	-	Aluminum	-
	Finish	Plated	Plated	-	-	Plated	-
Outer / middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	Aluminum	Aluminum	-	-	Aluminum	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		-	-	-	-	-	-
Average weight (175mm, w/o BB)		655.6g	666.7g (38-28T) 648.6g (36-26T) 629.0g (34-24T)	634.4g (36T) 618.3g (34T) 615.7g (32T) 603.9g (30T)	-	639.9g (38-28T) 621.8g (36-26T) 602.2g (34-24T)	607.6g (36T) 591.5g (34T) 588.9g (32T) 577.1g (30T)
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.	* 36/34T is hollow ,32/30T is not hollow ** 32T/30T is Stainless steel/Aluminum *** Spider arm angle is special.

MTB / Crankset

Series		XTR	XTR	XTR	SAINT	SAINT	DEORE XT
Model no.		FC-M980	FC-M980	FC-M985	FC-M820	FC-M825	FC-M8000-3
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		10	10	10	10	10	11
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X11
Chain line (mm)		50	46.8	48.8	50.4	57.9	50
P.C.D. (mm)		104/64	104/64	88	104	104	96/64
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Arm adapter		X	X	X	-	-	-
Chain ring combination		42-32-24T	38-26T	44-30T 42-30T 40-28T	38, 36, 34T (SM-CR82)	38, 36, 34T (SM-CR82)	40-30-22T
Q-factor (mm)		168	168	162	178	193	176
Crank arm length (mm)	165.0	X	X	-	X	X	X
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	X	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	180.0	X	X	X	-	-	X
	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
Crank arm fixing bolt	Without chain / bash guard	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)	SM-BB93	SM-BB93	SM-BB93	SM-BB80	SM-BB80	BB-MT800
	Threaded (E-type)	SM-BB93	SM-BB93	SM-BB93	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB71-41A	SM-BB71-41C	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
	73mm	X	X	X	X	-	X
	83mm	-	-	-	-	X	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	Aluminum	Aluminum	Aluminum
	Finish	-	-	-	Painted	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	-	Aluminum	-	-	Aluminum /GFRP
	Finish	Painted/Plated	-	Painted/Plated	-	-	Anodized(teeth,body)
Middle ring	Material	Titanium/CFRP	Aluminum	-	Aluminum	Aluminum	Steel/CFRP
	Finish	Shot blasting	Painted/Plated	-	Anodized	Anodized	Plated(teeth)
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	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing bolt	Material	Aluminum	Aluminum	-	-	-	Stainless steel
	Finish	Anodized	Anodized	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		-	-	-	-	-	-
Average weight (175mm, w/o BB)		678.6g	648.6g	647.7g (44-30T) 631.1g (42-30T) 623.6g (40-28T)	847g (38T) 837g (36T) 827g (34T)	858g (38T) 849g (36T) 838g (34T)	773.9g
Note						for 83mm BB shell width	

MTB / Crankset

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX
Model no.		FC-M8000-2	FC-M8000-1	FC-M780	FC-M782	FC-M785	FC-M677
Color	1	Series color	Series color	Black	Black	Black	Series color
	2	-	-	Silver	Silver	Silver	-
Rear speeds		11	11	10	10	10	10
Compatible chain		HG-X11	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Chain line (mm)		48.8	50.4	50	50	48.8	48.8
P.C.D. (mm)		96/64	96	104/64	96/64	104/64	104/64
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Arm adapter		-	-	-	-	-	-
Chain ring combination		38-28T 36-26T 34-24T	34, 32, 30T (SM-CRM80)	42-32-24T	40-30-22T	40-28T 38-26T 38-24T	38-24T 36-22T
Q-factor (mm)		176	176	175	175	175	175
Crank arm length (mm)	165.0	X	X	X	X	X	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain / bash guard	X	X	X	X	X	X
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	SM-BB70	SM-BB70	SM-BB70	SM-BB70
	Threaded (E-type)	-	-	SM-BB70	SM-BB70	SM-BB70	SM-BB70
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	BB-MT800-PA	BB-MT800-PA	SM-BB71-41A	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	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 / CFRP	Stainless steel/CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Plated(teeth), Painted(body)	Painted(body)	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	-	-	Steel +CF composite	Steel +CF composite	-	-
	Finish	-	-	Plated	Plated	-	-
Inner ring	Material	Aluminum	-	Aluminum	Aluminum	Aluminum	Steel
	Finish	Plated	-	Plated	Plated	Plated	Painted
Outer / middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Stainless steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
Inner ring fixing bolt	Material	Stainless steel	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		-	-	-	-	-	-
Average weight (175mm, w/o BB)		738.9g (38-28T) 718.1g (36-26T) 695.5g (34-24T)	699.8g (34T) 694.5g (32T) 680.0g (30T)	767.6g	778g	727.6g (40-28T) 717.6g (38-26T) 715.8g (38-24T)	743g 722g
Note			w/o chain ring spec available for OTC. Chain ring is sold separately(SM-CRM80)		FD-M780-A/M781-A		

MTB / Crankset

Series		SLX	SLX	SLX	ZEE	ZEE	SHIMANO
Model no.		FC-M670	FC-M670	FC-M672	FC-M640	FC-M645	FC-M627
Color	1	Series color	Series color	Series color	Series color	Series color	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	50	50	50.4	57.9	48.8
P.C.D. (mm)		104/64	104/64	96/64	104	104	104/64
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Arm adapter		-	-	-	-	-	X
Chain ring combination		42-32-24T	48-36-26T	40-30-22T	38, 36, 34T	38, 36, 34T	38-24T 36-22T
Q-factor (mm)		175	175	175	174.7	189.7	176
Crank arm length (mm)	165.0	-	-	-	X	X	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	X	X	-	-	-	-
	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	-	-	-
2-piece crank construction		-	-	-	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-BB70	SM-BB70	SM-BB70	SM-BB52	SM-BB52	SM-BB52
	Threaded (E-type)	SM-BB70	-	SM-BB70	SM-BB52	SM-BB52	SM-BB52
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	SM-BB71-41A	SM-BB71-41A	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	-	X
	73mm	X	X	X	X	-	X
	83mm	-	-	-	-	X	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
	Finish	Painted	Painted	Painted	-	-	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
	Finish	Anodized	Anodized	Anodized	-	-	Anodized
Middle ring	Material	Steel +GF composite	Aluminum	Steel +GF composite	Aluminum	Aluminum	-
	Finish	Plated	Plated	Plated	Anodized	Anodized	-
Inner ring	Material	Steel	Steel	Steel	-	-	Steel
	Finish	Painted	Painted	Plated	-	-	Painted
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	-	-	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		-	-	-	-	-	-
Average weight (175mm, w/o BB)		812.6g	843.4g	798g	828g (38T) 817g (36T) 807g (34T)	858g (38T) 847g (36T) 837g (34T)	-
Note				FD-M670-A/M671-A		for 83mm BB shell width	-

MTB / Crankset

Series		SHIMANO	SHIMANO	DEORE	DEORE	DEORE	DEORE
Model no.		FC-M627-B	FC-M622	FC-M617	FC-M610	FC-M610	FC-M612
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	Silver	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
Chain line (mm)		51.8	50	48.8	50	50	50
P.C.D. (mm)		104/64	96/64	104/64	104/64	104/64	96/64
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Arm adapter		X	X	X	X	X	X
Chain ring combination		36-22T	40-30-22T	38-24T 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	180.0	-	-	-	-	-	-
	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	X	-
Crank arm fixing bolt	Without chain / bash guard	X	X	X	X	X	X
	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	BB-MT500-PA	SM-BB71-41A	BB-MT500-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	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		-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					

MTB / Crankset

Series		DEORE	SHIMANO	SHIMANO	SHIMANO	DEORE	SHIMANO
Model no.		FC-M615	FC-M552	FC-M523	FC-M522	FC-M591	FC-M4000
Color	1	Black	Black	Black	Black	Black	Series color
	2	Silver	Silver	Silver	Silver	Silver	-
Rear speeds		10	10	10	10	9	9
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
Chain line (mm)		48.8	50	50	50	50	50
P.C.D. (mm)		104/64	104/64	96/64	104/64	104/64	96/64
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Arm adapter		X	-	X	X	-	X
Chain ring combination		40-28T 38-26T 38-24T	42-32-24T	40-30-22T	42-32-24T	44-32-22T 48-36-26T	40-30-22T
Q-factor (mm)		176	176	182.8	177.8	181.2	179.8
Crank arm length (mm)	165.0	-	-	-	-	-	X
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	X	X	X	X	X
	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	-
HOLLOWTECH crank arm		-	-	X	X	-	-
OCTALINK technology		-	-	X	X	-	X
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	-	-	X	-
	Octalink	-	-	X	X	-	X
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	SM-BB52	SM-BB52	BB-ES300	BB-ES300	SM-BB52	BB-ES300
	Threaded (E-type)	SM-BB52	SM-BB52	BB-ES300-E	BB-ES300-E	-	BB-ES300-E
	Threaded (chain case)	-	-	-	-	SM-BB52	-
	Pressfit	SM-BB71-41A	-	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	118	113	-	118
	Threaded (E-type)	-	-	-	-	-	118-E
	Threaded (chain case)	-	-	-	-	-	-
Threaded BB shell width	68mm	X	X	X	X	X	X
	73mm	X	X	-	-	X	-
	83mm	-	-	-	-	-	-
Chain case compatible		-	-	-	-	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	Aluminum	-	Aluminum	Aluminum	-	Aluminum
	Finish	Painted	-	Painted	Painted	-	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Middle ring	Material	-	Steel +GF composite	Steel +GF composite	Steel +GF composite	Steel	Steel
	Finish	-	Plated	Plated	Plated	Painted	Painted
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		-	-	X	X	-	X
Average weight (175mm, w/o BB)		-	-	-	-	-	-
Note							

MTB / Crankset

Series		ALIVIO	ALIVIO	ACERA	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-M4050	FC-M4060	FC-M3000-8	FC-M3000	FC-M371	FC-M351
Color	1	Series color	Series color	Series color	Series color	Black	Black
	2	-	-	-	-	Silver	Silver
Rear speeds		9	9	9	9	9	9
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG for 9-speed	HG for 9-speed
Chain line (mm)		50	50	50	50	50	50
P.C.D. (mm)		96/64	104/64	96/64	96/64	Riveted	Riveted
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Arm adapter		X	X	-	-	-	-
Chain ring combination		40-30-22T	48-36-26T	40-30-22T	40-30-22T	44-32-22T 48-36-26T	44-32-22T
Q-factor (mm)		176	176	180.1	179.1	180.5	186.4
Crank arm length (mm)	165.0	X	X	X	X	X	X
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	X	X	X	X	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	X	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK technology		-	-	X	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible BB type	Outboard	X	X	-	-	-	-
	Octalink	-	-	X	-	-	-
	Square	-	-	-	X	X	X
Recommended BB	Threaded (normal)	SM-BB52	SM-BB52	BB-ES300	BB-UN26	BB-UN26	BB-UN26
	Threaded (E-type)	-	-	BB-ES300-E	BB-UN26-E	-	-
	Threaded (chain case)	-	-	-	-	BB-UN26-K	BB-UN26-K
	Pressfit	SM-BB71-41A	SM-BB71-41A	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	118	LL113	LL123	LL123
	Threaded (E-type)	-	-	118-E	LL113-E	-	-
	Threaded (chain case)	-	-	-	-	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
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	-	-	-	-
	Finish	Plated	Plated	-	-	-	-
Spider arm	Material	Aluminum	Aluminum	-	-	-	-
	Finish	Painted	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
Average weight (175mm, w/o BB)		-	-	-	-	-	-
Note						SHIMANO logo	SHIMANO logo

MTB / Crankset

Series		ACERA	ALTUS	TOURNEY TX	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-M361	FC-M311	FC-TX801	FC-TY701	FC-TY701	FC-TY501
Color	1	Black	Black	Black	Light Grey Metallic	Metallic Black	Black
	2	Silver	Silver	Silver	Silver	Silver	-
Rear speeds		8/7	8/7	8/7	8/7/6	8/7/6	8/7/6
Compatible chain		HG for 8/7-speed	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
Chain line (mm)		50	50	50	47.5 / 47.5+t	47.5 / 47.5+t	47.5 / 47.5+t
P.C.D. (mm)		104/64	Riveted	Riveted	Riveted	Riveted	Riveted
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
Arm adapter		-	-	-	-	-	-
Chain ring combination		48-38-28T 42-32-22T	48-38-28T 42-32-22T	48-38-28T 42-32-22T	48-38-28T 42-34-24T	42-34-24T	42-34-24T
Q-factor (mm)		185.9	187.9	187.9	185.5	185.5	185.5
Crank arm length (mm)	165.0	-(48-38-28T) X* (42-32-22T)	-	X	X	X	X
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	X	X	X	X (separate type)	X (separate type)	X (integrated type)
	Without chain / bash guard	X	X	X	X	X	X
Crank arm fixing bolt	With	X	X	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	X
Recommended BB	Threaded (normal)	BB-UN26	BB-UN26	BB-UN100	BB-UN100	BB-UN100	BB-UN100
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	BB-UN26-K	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	LL123	D-NL	D-NL	D-NL
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	LL123-K	LL123-K	LL123-K	D-NL K	D-NL K	D-NL K
Threaded BB shell width	68mm	X	X	X	X	X	X
	73mm	X	X	X	X	X	X
	83mm	-	-	-	-	-	-
Chain case compatible		X	X	X	X	X	X
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	Resin	Resin	Resin	Resin	Resin
	Finish	-	Resin	Resin	Painted	Painted	-
Outer ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted_Black (Light Grey Metallic) Painted_Silver (Silver)	Painted (Black)	Painted
Middle ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted_Silver	Painted (Black)	Painted
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted_Black (Light Grey Metallic) Painted_Silver (Silver)	Painted (Black)	Painted
Outer / middle ring fixing bolt	Material	Stainless steel	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	-	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		X	X	X	X	X	X (option)
Average weight (175mm, w/o BB)		-	-	-	-	-	-
Note		SHIMANO logo, * 48-38-28 Silver with CG spec		SHIMANO logo			

MTB / Crankset

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-TY501	FC-TY501	FC-TY501	FC-TY301	FC-TY301	FC-M171-A
Color	1	-	Black	-	Black	Black	4 color variations
	2	Silver	-	Silver	-	-	-
Rear speeds		8/7/6	8/7/6	8/7/6	8/7/6	8/7/6	8/7/6
Compatible chain		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	HG/UG for 8/7/6-speed	HG for 8/7-speed
Chain line (mm)		47.5 / 47.5+t	47.5 / 47.5+t	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
Arm adapter		-	-	-	-	-	-
Chain ring combination		42-34-24T	48-38-28	48-38-28	42-34-24T	48-38-28	48-38-28T
Q-factor (mm)		185.5	185.5	185.5	181.5	181.5	180.5
Crank arm length (mm)	165.0	X	X	X	-	-	X*
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	180.0	-	-	-	-	-	-
	With bash guard	-	-	-	-	-	-
	With chain guard	X (integrated type)	X (integrated type)	X (integrated type)	X (integrated type)	X (integrated type)	X
Crank arm fixing bolt	Without chain / bash guard	X	X	X	X	X	X
	With	X	X	X	-	-	-
Without		X	X	X	X	X	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	X
Recommended BB	Threaded (normal)	BB-UN100	BB-UN100	BB-UN100	BB-UN100	BB-UN100	BB-UN100
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	BB-UN100-K	BB-UN100-K	BB-UN100-K	BB-UN100-K	BB-UN100-K	BB-UN100-K
	Pressfit	-	-	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	D-NL	D-NL	D-NL	D-NL	D-NL	D-NL
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	D-NL K	D-NL K	D-NL K	D-NL K	D-NL K	D-NL K
Threaded BB shell width	68mm	X	X	X	X	X	X
	73mm	X	X	X	X	X	X
	83mm	-	-	-	-	-	-
Chain case compatible		X	X	X	X	X	X
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	Painted	-	Painted	-	-	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	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		X (option)	X (option)	X (option)	-	-	-
Average weight (175mm, w/o BB)		-	-	-	-	-	-
Note							SHIMANO logo, * available for standard color spec

MTB / Crankset

Series		SHIMANO	SHIMANO	DXR
Model no.		FC-M171	FC-M131	FC-MX71
Color	1	4 color variations	Series color	Series color
	2	-	-	-
Rear speeds		8/7/6	8/7/6	1
Compatible chain		HG for 8/7-speed	HG for 8/7-speed	Single speed
Chain line (mm)		47.5 / 47.5+t	47.5 / 47.5+t	44
P.C.D. (mm)		Riveted	Riveted	104/64
Gear arms		4arm	4arm	4arm
Arm adapter		-	-	-
Chain ring combination		48-38-28T 42-34-24T	48-38-28T 42-34-24T	34/38/41/42/ 43/44/46T
Q-factor (mm)		180.5	180.5	173
Crank arm length (mm)	165.0	X*	-	X
	167.5	-	-	-
	170.0	X	X	X
	172.5	-	-	-
	175.0	X	-	X
	177.5	-	-	-
	180.0	-	-	X
Optional chain guard	With bash guard	-	-	-
	With chain guard	X	X	-
	Without chain / bash guard	X	X	X
Crank arm fixing bolt	With	-	-	-
	Without	X	X	X
HOLLOWTECH II Technology		-	-	X
2-piece crank construction		-	-	X
HOLLOWTECH crank arm		-	-	X
OCTALINK technology		-	-	-
HOLLOWGLIDE		-	-	-
Compatible BB type	Outboard	-	-	X
	Octalink	-	-	-
	Square	X	X	-
Recommended BB	Threaded (normal)	BB-UN100	BB-UN100	SM-BB70
	Threaded (E-type)	-	-	-
	Threaded (chain case)	BB-UN100-K	BB-UN100-K	-
	Pressfit	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	D-NL	D-NL	-
	Threaded (E-type)	-	-	-
	Threaded (chain case)	D-NL K	D-NL K	-
Threaded BB shell width	68mm	X	X	X
	73mm	X	X	X
	83mm	-	-	-
Chain case compatible		X	X	-
Crank arm	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Polished	Anodized
Crank axle	Material	-	-	Steel
	Finish	-	-	Plated
Spider arm	Material	-	-	Aluminum
	Finish	-	-	Anodized
Spider arm cover	Material	Resin	Resin	-
	Finish	Resin	Resin	-
Outer ring	Material	Steel	Steel	Aluminum
	Finish	Painted	Painted	Anodized
Middle ring	Material	Steel	Steel	-
	Finish	Painted	Painted	-
Inner ring	Material	Steel	Steel	-
	Finish	Painted	Painted	-
Outer / middle ring fixing bolt	Material	-	-	Aluminum
	Finish	-	-	Anodized
Inner ring fixing bolt	Material	-	-	-
	Finish	-	-	-
Stainless chain guard fixing bolt		-	-	-
Crank fixing bolt included		-	-	-
Average weight (175mm, w/o BB)		-	-	-
Note		SHIMANO logo, * available for standard color spec	SHIMANO logo	BMX racing 68mm BB shell width

MTB / 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
	84.5	-	-	-	-	-	-
Press-Fit BB shell width (mm)	89.5	-	X	-	X	X	-
	92.0	-	X	-	X	X	-
	104.5	-	-	-	-	-	-
	107.0	-	-	-	-	-	-
	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							

ARCHIVE

MTB / Bottom Bracket (HOLLOWTECH II)

Series	SAINT/ZEE	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	SM-BB71-41C	SM-BB70	SM-BB70-S	SM-BB52	BB-MT500-PA
HOLLOWTECH II BB	Threaded BB type	-	X	X	X
	Press-Fit type	X	-	-	-
Threaded BB shell width (mm)	68	-	X	X	-
	73	-	X	-	X
	83	-	-	-	-
	84.5	-	-	-	-
Press-Fit BB shell width (mm)	89.5	-	-	-	X
	92.0	-	-	-	X
	104.5	X	-	-	-
	107.0	X	-	-	-
Small ball bearing	-	-	-	-	-
Adapter	Material	Resin	Aluminum	Aluminum	Aluminum
	Finish	-	Anodized	Anodized	Painted
Spacer	Material	Resin	Resin	Resin	Resin
	Finish	-	-	-	-
Average weight	73g	-	-	-	71.6g
Note			For BMX		

ARCHIVE

MTB / 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)	-	-	-	-	-	
	MM110	68 (BC1.37)	-	-	-	-	-	
		70 (M36)	-	-	-	-	-	
	LL113	68 (BC1.37)	-	-	-	-	-	
		70 (M36)	-	-	-	-	-	
	113	68 (BC1.37)	X	-	-	-	X	X
		70 (M36)	-	-	-	-	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
	Average weight		-	-	-	-	-	-
	Note					For FC-M521 Only	-	-

MTB / 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	-	-	
	MM110	73 (BC1.37)	-	-	X	-	-	
		68 (BC1.37)	-	-	X	X*	X	X
		70 (M36)	-	-	X	X	-	-
	LL113	73 (BC1.37)	-	-	X	X	-	-
		68 (BC1.37)	-	-	X	X*	X	-
		70 (M36)	-	-	X	X	-	-
	113	73 (BC1.37)	-	-	X	X	X	-
		68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
	D-H	68 (BC1.37)	-	-	X	-	-	-
		70 (M36)	-	-	X	-	-	-
	YL117	68 (BC1.37)	-	-	-	X* (CL:47.5) X (CL:45)	X* (CL:47.5)	X* (CL:47.5)
	117.5	68 (BC1.37)	-	-	-	X	-	X
	118	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	XL118	68 (BC1.37)	-	-	X	-	-	-
		70 (M36)	-	-	X	-	-	-
		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	
Average weight		-	-	-	-	-	-	
Note		* with 0.7mm spacer	* with 1.8mm spacer version also available for FC-M521		*w/Fixing Bolts	*w/Fixing Bolts	*w/Fixing Bolts	

MTB / 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	-	-
Average weight		-	-
Note		*w/crank arm fixing Bolts spec available	*w/crank arm fixing Bolts spec available

MTB / Cassette Sprocket

Series	XTR	XTR	DEORE XT	DEORE XT	XTR	XTR	
Model no.	CS-M9000	CS-M9001	CS-M8000	CS-M8000	CS-M980	CS-M980	
Type	HG	HG	HG	HG	HG	HG	
Speeds	11-speed	11-speed	11-speed	11-speed	10-speed	10-speed	
Combination *Titanium gear **Aluminum gear	11th	40**	40**	40**	42**	-	
	10th	35*	35*	35	37	34*	36*
	9th	31*	31*	31	32	30*	32*
	8th	27*	27*	27	28	26*	28*
	7th	24*	24*	24	24	23*	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	
Group	bs	bs	bs	bt	bj	bk	
Compatible chain	HG-X11	HG-X11	HG-X11	HG-X11	HG-X 10-speed	HG-X 10-speed	
Carbon Spider arm	QTY (pcs)	2	2	-	-	-	
	Finish	-	-	-	-	-	
Aluminum Spider arm	QTY (pcs)	2	2	2	2	3	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Steel Spider arm	QTY (pcs)	-	-	-	-	-	
	Finish	-	-	-	-	-	
Titanium gear	Finish	Shot	Shot	-	-	Shot	
Steel gear	Finish	Shot-Ni	Shot-Ni	Shot-Ni	Shot-Ni	Shot-Ni	
Lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Average weight	330g	330g	411g	447g	255g	272g	
Note	For 2/1x11-speed	For 3x11-speed					

ARCHIVE

MTB / Cassette Sprocket

Series	DEORE XT	DEORE XT	DEORE XT	SHIMANO	SHIMANO	SHIMANO	
Model no.	CS-M771-10	CS-M771-10	CS-M771-10	CS-HG81-10	CS-HG81-10	CS-HG81-10	
Type	HG	HG	HG	HG	HG	HG	
Speeds	10-speed	10-speed	10-speed	10-speed	10-speed	10-speed	
Combination *Titanium gear **Aluminum gear	11th	-	-	-	-	-	
	10th	32	34	36	32	34	36
	9th	28	30	32	28	30	32
	8th	25	26	28	25	26	28
	7th	22	23	24	22	23	24
	6th	20	21	21	20	21	21
	5th	18	19	19	18	19	19
	4th	16	17	17	16	17	17
	3rd	14	15	15	14	15	15
	2nd	12	13	13	12	13	13
1st	11	11	11	11	11	11	
Group	bL	bJ	bK	bL	bJ	bK	
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	
Carbon Spider arm	QTY (pcs)	-	-	-	-	-	
	Finish	-	-	-	-	-	
Aluminum Spider arm	QTY (pcs)	2	2	2	1	1	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Steel Spider arm	QTY (pcs)	-	-	-	-	-	
	Finish	-	-	-	-	-	
Titanium gear	Finish	Shot	Shot	Shot	Shot	Shot	
Steel gear	Finish	Shot-Cr	Shot-Cr	Shot-Cr	Shot-Cr/ Shot-Ni	Shot-Cr/ Shot-Ni	
Lock ring	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	
	Finish	Anodized	Anodized	Anodized	Cr plated	Cr plated	
Average weight	294g	323g	343g	317g	351g	369g	
Note				Use CN-6701 with Road double FC			

ARCHIVE

MTB / Cassette Sprocket

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.	CS-HG50-10	CS-HG80-9	CS-HG80-9	CS-HG80-9	CS-HG400-9	CS-HG400-9	
Type	HG	HG	HG	HG	HG	HG	
Speeds	10-speed	9-speed	9-speed	9-speed	9-speed	9-speed	
Combination *Titanium gear **Aluminum gear	11th	-	-	-	-	-	
	10th	36	-	-	-	-	
	9th	32	28	32	34	28	32
	8th	28	24	28	30	24	28
	7th	24	21	24	26	21	24
	6th	21	18	21	23	18	21
	5th	19	16	18	20	16	18
	4th	17	14	16	17	14	16
	3rd	15	13	14	15	13	14
	2nd	13	12	12	13	12	12
1st	11	11	11	11	11	11	
Group	bk	bg	ar	au	bg	ar	
Compatible chain	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	
Carbon Spider arm	QTY (pcs)	-	-	-	-	-	
	Finish	-	-	-	-	-	
Aluminum Spider arm	QTY (pcs)	-	1	1	1	-	
	Finish	-	Anodized	Anodized	Anodized	-	
Steel Spider arm	QTY (pcs)	1	-	-	-	-	
	Finish	Ni plated	-	-	-	-	
Titanium gear	Finish	-	Shot	Shot	Shot	-	
Steel gear	Finish	Ni plated	Shot-Cr/ Shot-Ni	Shot-Cr/ Shot-Ni	Shot-Cr/ Shot-Ni	Ni-Ni plated	
Lock ring	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Cr plated	Cr plated	Cr plated	Cr plated	Ni-Ni plated	
Average weight	-	231g	292g	315g	-	-	
Note							

ARCHIVE

MTB / Cassette Sprocket

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

ARCHIVE

MTB / Cassette Sprocket

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

ARCHIVE

MTB / Cassette Sprocket

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

ARCHIVE

MTB / Cassette Sprocket

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	DXR	
Model no.	CS-HG41-7	CS-HG200-7	CS-HG200-7	CS-HG20-7	CS-HG20-7	CS-MX66	
Type	HG	HG	HG	HG	HG	Single sprocket for FH-MX70	
Speeds	7-speed	7-speed	7-speed	7-speed	7-speed	Single	
Combination *Titanium gear **Aluminum gear	11th	-	-	-	-	-	
	10th	-	-	-	-	-	
	9th	-	-	-	-	-	
	8th	-	-	-	-	-	
	7th	28	28	32	28	32	
	6th	24	24	26	24	26	
	5th	21	21	21	21	21	
	4th	18	18	18	18	18	
	3rd	15	16	16	16	16	
	2nd	13	14	14	14	14	
1st	11	12	12	12	12		
Group	ac	bm	bp	bm	bp	-	
Compatible chain	IG/HG	IG/HG	IG/HG	IG/HG	IG/HG	1/2" x 3/32"	
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	Brown / Black	Brown / Black	Shot-Cr / Shot-Ni
Lock ring	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Manganese phosphate	Zinc phosphate	Zinc phosphate	Zinc phosphate	Zinc phosphate	Chrome plated
Average weight	-	-	-	-	-	-	
Note						For BMX racing	

ARCHIVE

MTB / Multiple Freewheel

Series	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
Rear speeds	7-speed	7-speed	7-speed	7-speed	7-speed	6-speed
Combination	10th	-	-	-	-	-
	9th	-	-	-	-	-
	8th	-	-	-	-	-
	7th	28	34	34	28	28
	6th	24	24	24	24	24
	5th	21	22	22	22	22
*Steel cog on spider	4th	19	20	20	20	21
	3rd	17	18	18	18	18
**Titanium cog on spider	2nd	15	16	16	16	16
	1st	13	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
Average weight	-	-	-	-	-	-
Note		With chain protector		With chain protector		With chain protector

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MTB / Multiple Freewheel

Series		TOURNEY	TOURNEY	TOURNEY
Model no.		MF-TZ30	MF-TZ20-CP	MF-TZ20
Type		HG/UG	HG/UG	HG/UG
Rear speeds		6-speed	6-speed	6-speed
Combination	10th	-	-	-
	9th	-	-	-
	8th	-	-	-
	7th	-	-	-
	6th	34	28	28
	5th	24	24	24
*Steel cog on spider	4th	21	21	21
	3rd	18	18	18
**Titanium cog on spider	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
Average weight		-	-	-
Note			With chain protector	

ARCHIVE

MTB / Freehub

Series		XTR	XTR	DXR	SAINT	SAINT	SAINT
Model no.		FH-M9000	FH-M9010	FH-MX71	FH-M820	FH-M825	FH-M828
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Brake Type		Center Lock Disc	Center Lock Disc	Rim	Center Lock Disc	Center Lock Disc	Center Lock Disc
Speeds		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	8-10 speed MTB 11-speed
O.L.D. (mm)		135	142	112	135	150	142
Spoke hole	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	-	-	X	X	X	X
Fixing method		QR	12mm E-Thru	Nut	Thru	Thru	Thru
Axle	QR skewer length (mm)	166	-	-	-	-	-
		168	X	-	-	-	-
		170	-	-	-	-	-
		173	X	-	-	-	-
	Length (mm)	146	142	-	-	-	-
	Diameter (mm)	16	16	-	-	-	-
	Thru Axle Length x Inner Diameter (mm)	135x10	-	-	-	X	-
135x12		-	-	-	X	-	-
142x12		-	X	-	-	-	X
150x12		-	-	-	-	X	-
Flange distance (mm)		57.4	57.4	57.4	57.4	72.4	57.4
Offset (mm)		6.6	6.6	0	6.4	6.6	6.4
P.C.D. Left/Right (mm)		44/45	44/45	45	44/45	44/45	44/45
Flange diameter Left/Right (mm)		52.8/53.8	52.8/53.8	53.8	52.8/ 53.8	52.8/ 53.8	52.8/ 53.8
Quick engagement		X (36points/360°)	X (36points/360°)	X (36points/360°)	X (36points/360°)	X (36points/360°)	X (36points/360°)
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	Freehub body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		X	X	X	X	X	X
Bearing	Stainless ball	X	X	X	X	X	X
	Cup	Grinding	Grinding	Grinding	Grinding	Grinding	Grinding
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Disc mount	Center lock	X	X	X	X	X	X
	Outer serration rotor lock ring	X	X	-	-	-	-
	Center lock mount cover option	-	-	-	X	X	X
Freehub body	6-bolt	-	-	-	-	-	-
	Material	Titanium	Titanium	Steel	Steel	Steel	Steel
Hub shell	Finish	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Axle	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
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 ring		271g	268g	448g (w/ fixing bolt)	347g (φ10) 333g (φ12)	348g	336g
Note				For BMX			

MTB / Freehub

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX	SLX	
Model no.		FH-M8000	FH-M8010	FH-M785	FH-M756	FH-M675	FH-M678	
Color	1	Series color	Series color	Black	Black	Series color	Series color	
	2	-	-	Silver	Silver	-	-	
Brake Type		Center Lock Disc	Center Lock Disc	Center Lock Disc	6-bolt 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)		135	142	135	135	135	142	
Spoke hole	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	-	-	X	X	X	-	
Fixing method		QR	12mm E-Thru	QR	QR	QR	12mm E-Thru	
Axle	QR skewer length (mm)	166	-	-	-	-	-	
		168	X	-	X	X	-	
		170	-	-	-	-	-	-
		173	X	-	X	X	X	-
	Length (mm)	146	142	146	146	146	-	
	Diameter (mm)	15	14	14	10	10	-	
	Thru Axle Length x Inner Diameter (mm)	135x10	-	-	-	-	-	-
135x12		-	-	-	-	-	-	
142x12		-	X	-	-	-	X	
150x12		-	-	-	-	-	-	
Flange distance (mm)		57.4	57.4	57.4	57.1	57.4	57.4	
Offset (mm)		6.6	6.4	6.6	6.8	6.6	6.4	
P.C.D. Left/Right (mm)		44/45	44/45	44/45	61	44/45	44/45	
Flange diameter Left/Right (mm)		52.8/53.8	52.8/53.8	52.8/ 53.8	70.6	52.8/ 53.8	52.8/ 53.8	
Quick engagement		X (more than 36times/ 360degree)	X (more than 36times/ 360degree)	X (36points/360°)	-	X (32points/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	-	-	-	-	-	-	
	Cup	-	-	-	-	-	-	
	Cone	CBN	CBN	CBN	CBN	CBN	CBN	
Disc mount	Center lock	X	X	X	-	X	X	
	Outer serration rotor lock ring	X (Aluminum)	X (Aluminum)	-	-	-	-	
	Center lock mount cover option	-	-	X	X	X	X	
Freehub body	6-bolt	-	-	-	X	-	-	
	Material	Steel	Steel	Steel	Steel	Steel	Steel	
Hub shell	Finish	-	-	-	-	-	-	
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
Axle	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel	
QR lever	Material	Aluminum	-	Aluminum	Aluminum	Aluminum	-	
	Finish	Anodized	-	Anodized	Anodized	Anodized	-	
	Color	Series color	-	Series color	Series color	Black	-	
QR housing	Material	Aluminum	-	Aluminum	Aluminum	Aluminum	-	
	Finish	Anodized	-	Anodized	Anodized	Anodized	-	
QR nut	Material	Resin & Steel	-	Resin & Steel	Resin & Steel	Resin & Steel	-	
	Finish	-	-	-	-	-	-	
Average weight* *w/o axle, QR nor lockring		328g	359g	330g	426g	384g	357g	
Note					Spoke hole 24H spec available			

MTB / Freehub

Series		ZEE	ZEE	ZEE	DEORE	DEORE	SHIMANO	
Model no.		FH-M640	FH-M645	FH-M648	FH-M615	FH-M618	FH-M525A	
Color	1	Series color	Series color	Series color	Black	Black	Black	
	2	-	-	-	Silver	-	Silver	
Brake Type		Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc	6-bolt 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)		135	150	142	135	142	135	
Spoke hole	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	X	X	X	X	-	X	
Fixing method		Thru	Thru	Thru	QR	12mm E-Thru	QR	
Axle	QR skewer length (mm)	166	-	-	-	-	-	
		168	-	-	-	X	-	
		170	-	-	-	-	-	-
		173	-	-	-	X	-	X
	Length (mm)	-	-	-	146	-	146	
	Diameter (mm)	-	-	-	10	-	10	
	Thru Axle Length x Inner Diameter (mm)	135x10	X	-	-	-	-	-
	135x12	X	-	-	-	-	-	
	142x12	-	-	X	-	X	-	
	150x12	-	X	-	-	-	-	
Flange distance (mm)		57.4	72.4	57.4	57.4	57.4	57.1	
Offset (mm)		6.4	6.4	6.4	8.6	6.4	6.8	
P.C.D. Left/Right (mm)		44/45	44/45	44/45	45	44/45	61	
Flange diameter Left/Right (mm)		52.8/ 53.8	52.8/ 53.8	52.8/ 53.8	53.8	52.8/ 53.8	70.6	
Quick engagement		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	-	
Bearing	Stainless ball	X	X	X	-	-	-	
	Cup	-	-	-	-	-	-	
	Cone	CBN	CBN	CBN	CBN	CBN	CBN	
Disc mount	Center lock	X	X	X	X	X	-	
	Outer serration rotor lock ring	-	-	-	-	-	-	
	Center lock mount cover option	X	X	X	X	X	-	
Freehub body	6-bolt	-	-	-	-	-	X	
	Material	Steel	Steel	Steel	Steel	Steel	Steel	
Hub shell	Finish	-	-	-	-	-	-	
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
Axle	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
	Material	Steel	Steel	Steel	Steel	Steel	Steel	
QR lever	Material	-	-	-	Aluminum	-	Aluminum	
	Finish	-	-	-	Painted	-	Anodized	
	Color	-	-	-	Black	-	Black	
QR housing	Material	-	-	-	Aluminum	-	Aluminum	
	Finish	-	-	-	Painted	-	Anodized	
QR nut	Material	-	-	-	Resin & Steel	-	Resin & Steel	
	Finish	-	-	-	-	-	-	
Average weight* *w/o axle, QR nor lockring		375g (φ10) 350g (φ12)	363g	357g	372g	357g	-	
Note								

MTB / Freehub

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-M4050	FH-M475	FH-M3050	FH-RM35	FH-RM33	FH-TX800-QR
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	-	-	-	Silver
Brake Type		Center Lock Disc	6-bolt Disc	Center lock	Center Lock Disc	Center Lock Disc	Rim
Speeds		8-10 speed MTB 11-speed	8-10 speed	8-10 speed	8-10 speed	8-10 speed	8-10 speed
O.L.D. (mm)		135	135	135	135	135	135
Spoke hole	28H	-	-	-	X*	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
Fixing method		QR	QR	QR	QR	QR	QR
Axle	QR skewer length (mm)	166	-	X	X	X	X
		168	X	-	-	-	-
		170	-	X	X	X	X
		173	X	X	-	-	-
	Length (mm)	146	146	146	146	146	146
	Diameter (mm)	10	10	10	10	10	10
	Thru Axle Length x Inner Diameter (mm)	135x10	-	-	-	-	-
135x12		-	-	-	-	-	-
142x12		-	-	-	-	-	-
150x12		-	-	-	-	-	-
Flange distance (mm)		57.4	57.1	57.4	57.4	57.4	59.2
Offset (mm)		6.6	6.8	6.6	6.6	6.6	7.7
P.C.D. Left/Right (mm)		45 / 45	61	45 / 45	45 / 45	45 / 45	45 / 45
Flange diameter Left/Right (mm)		53.8	70.6	53.8	53.8	53.8	53.8
Quick engagement		-	-	-	-	-	-
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Contact	-	-	-
	Freehub body	Contact	-	-	-	-	-
Internal grease sleeve		X	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	-	-	-	-	-
Disc mount	Center lock	X	-	X	X	X	-
	Outer serration rotor lock ring	-	-	-	-	-	-
	Center lock mount cover option	-	-	-	X	X	-
Freehub body	6-bolt	-	X	-	-	-	-
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Hub shell	Finish	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Axle	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted (Black) Shiny (Silver)
	Material	Steel	Steel	Steel	Steel	Steel	Steel
QR lever	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Barrel	Plated	Plated	Plated	Plated	Plated
	Color	Black	Black	Black	Black	Black	Black (Black color spec) Silver (Silver color spec)
QR housing	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
QR nut	Material	Steel + Resin	Steel + Resin	Steel + Resin	Steel + Resin	Steel + Resin	Steel + Resin
	Finish	-	-	-	-	-	-
Average weight* *w/o axle, QR nor locking ring		-	-	-	-	-	-
Note					* 166mm QR spec	Spoke hole 24H spec available	

MTB / Freehub

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		FH-TX800-NT	FH-TX505-8	FH-RM30-7-QR	FH-RM30-7-NT	
Color	1	Black	Black	Black	Black	
	2	Silver	-	Silver	Silver	
Brake Type		Rim	Center Lock Disc	Rim	Rim	
Speeds		8-10 speed	8-10 speed	7-speed	7-speed	
O.L.D. (mm)		135	135	130/135	135	
Spoke hole	28H	-	-	-	-	
	32H	X	X	-	-	
	36H	X	X	X	X	
Axle	Fixing method		Nut	QR	QR	Nut
	QR skewer length (mm)	166	-	X	X	-
		168	-	-	-	-
		170	-	X	X	-
		173	-	-	-	-
	Length (mm)		185	146	141/146	185
	Diameter (mm)		10	10	10	10
	Thru Axle Length x Inner Diameter (mm)	135x10	-	-	-	-
135x12		-	-	-	-	
142x12		-	-	-	-	
150x12		-	-	-	-	
Flange distance (mm)		59.2	57.4	59.2	59.2	
Offset (mm)		7.5	6.6	135:5.5	135:5.5	
P.C.D. Left/Right (mm)		45 / 45	45 / 45	45 / 45	45 / 45	
Flange diameter Left/Right (mm)		53.8	53.8	53.8	53.8	
Quick engagement		-	-	-	-	
Seal	Hub	-	-	-	-	
	Freehub body	-	-	-	-	
Internal grease sleeve		-	-	-	-	
Bearing	Stainless ball	-	-	-	-	
	Cup	-	-	-	-	
	Cone	-	-	-	-	
Disc mount	Center lock	-	X	-	-	
	Outer serration rotor lock ring	-	-	-	-	
	Center lock mount cover option	-	X (depending on request)	-	-	
	6-bolt	-	-	-	-	
Freehub body	Material	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum/2pcs	Aluminum/2pcs	
	Finish	Painted (Black) Shiny (Silver)	Painted	Painted (Black) Shiny (Silver)	Painted (Black) Shiny (Silver)	
Axle	Material	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	
QR lever	Material	-	Steel	Steel	-	
	Finish	-	Plated	Plated	-	
	Color	-	Black	Silver	-	
QR housing	Material	-	Steel	Steel	-	
	Finish	-	Plated	Plated	-	
QR nut	Material	-	Steel + Resin	Steel + Resin	-	
	Finish	-	-	-	-	
Average weight* *w/o axle, QR nor locking		-	-	-	-	
Note			create 24/28 hole spec depending on request			

MTB / 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	
	32H	X	X	-	
	36H	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
Average weight	-	-	-	-	
Note		For 6 / 7-speed multifree wheel	For 6 / 7-speed multifree wheel		

MTB / Front Hub

Series		XTR	SAINT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		HB-M9010	HB-M820	HB-M8000	HB-M8010	HB-M785	HB-M756	
Color	1	Series color	Series color	Series color	Series color	Black	Black	
	2	-	-	-	-	Silver	Silver	
Brake Type		Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc	6-bolt Disc	
O.L.D. (mm)		100	110	100	100	100	100	
Spoke hole	32H	X	X	X	X	X	X	
	36H	-	X	-	-	X	X	
Axle	Fixing method		15mm E-Thru	20mm Thru	QR	15mm E-Thru	QR	
	QR skewer length (mm)	129	-	-	-	-	-	
		133	-	-	-	-	X	
	Length (mm)		100	110	108	100	108	108
	Diameter (mm)		17.5	20	14	17.5	14	10
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-	-
		100x15	X	-	-	X	-	-
110x20		-	X	-	-	-	-	
Flange distance (mm)		60.2	61.6	60.4	60.2	60.6	59.4	
Offset (mm)		5.4	5.6	5.8	5.3	6	5.5	
P.C.D. Left / Right (mm)		44 / 44	52	44/41	44/44	44/41	61	
Flange diameter (mm)		52.8	59.6	52.8/51.4	52.8	52.8/51.4 (L/R)	70.6	
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	X	-	-	-	-	
	Cup	Grinding	CBN	-	-	-	-	
	Cone	CBN	CBN	CBN	CBN	CBN	CBN	
Disc mount	Outer serration rotor lock ring	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)	-	-	
	Center lock mount cover option	-	-	-	-	X	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-	
QR lever	Material	-	-	Aluminum	-	Aluminum	Aluminum	
	Finish	-	-	Anodized	-	Anodized	Anodized	
	Color	-	-	Series color	-	Black	Black	
QR housing	Material	-	-	Aluminum	-	Aluminum	Aluminum	
	Finish	-	-	Anodized	-	Anodized	Anodized	
QR nut	Material	-	-	Resin & Steel	-	Resin & Steel	Resin & Steel	
	Finish	-	-	-	-	-	-	
Average weight		136g	216g	164g	148g	166g	239g	
Note			Axle is supplied with front fork		Axle is supplied with front fork		Spoke hole 24H spec available	

MTB / Front Hub

Series		DXR	SLX	SLX	ZEE	DEORE	DEORE	
Model no.		HB-MX71	HB-M675	HB-M678	HB-M640	HB-M615	HB-M618	
Color	1	Series color	Series color	Series color	Series color	Black	Black	
	2	-	-	-	-	Silver	-	
Brake Type		Rim	Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc	
O.L.D. (mm)		100	100	100	110	100	100	
Spoke hole	32H	X	X	X	X	X	X	
	36H	X	X	-	X	X	-	
Fixing method		Nut	QR	15mm E-Thru	20mm Thru	QR	15mm E-thru	
Axle	QR skewer length (mm)	129	-	-	-	-	-	
		133	-	X	-	X	-	
	Length (mm)	-	108	100	110	108	100	
	Diameter (mm)	-	10	15	20	10	15	
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-	-
		100x15	-	-	X	-	-	X
110x20		-	-	-	X	-	-	
Flange distance (mm)		74	60.2	59.8	61.6	60.2	60.2	
Offset (mm)		0	5.3	5.3	5.6	5.3	5.3	
P.C.D. Left / Right (mm)		40	44	47	52	44	44	
Flange diameter (mm)		50.4	52.8/51.4 (L/R)	52.8	59.6	52.8	52.8	
Seal		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	
Internal grease sleeve		X	X	X	X	-	X	
Bearing	Stainless ball	X	-	-	-	-	-	
	Cup	Grinding	-	-	-	-	-	
	Cone	CBN	CBN	CBN	CBN	CBN	CBN	
Disc mount	Outer serration rotor lock ring	-	-	X (Aluminum)	X (Aluminum)	-	X (Steel)	
	Center lock mount cover option	-	X	-	-	X	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Steel	Steel	Aluminum	Aluminum	Steel	Aluminum	
	Finish	-	-	Anodized	Anodized	-	Anodized	
QR lever	Material	-	Aluminum	-	-	Aluminum	-	
	Finish	-	Anodized	-	-	Painted	-	
	Color	-	Black	-	-	Black	-	
QR housing	Material	-	Aluminum	-	-	Aluminum	-	
	Finish	-	Anodized	-	-	Painted	-	
QR nut	Material	-	Resin & Steel	-	-	Resin & Steel	-	
	Finish	-	-	-	-	-	-	
Average weight		-	189g	190g	228g	185g	155g	
Note		For BMX racing	-	Axle is supplied with front fork	Axle is supplied with front fork	-	Axle is supplied with front fork	

MTB / Front Hub

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		HB-M525A	HB-M475	HB-M4050	HB-M3050	HB-RM35	HB-RM33
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	-	-	-
Brake Type		6-bolt Disc	6-bolt Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc
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)		10	10	10	10	10
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-
		100x15	-	-	-	-	-
110x20		-	-	-	-	-	
Flange distance (mm)		59.4	59.4	60.2	60.2	60.2	60.2
Offset (mm)		5.5	5.5	5.6	5.5	5.5	5.5
P.C.D. Left / Right (mm)		61	61	44/44	44 / 44	44/44	44/44
Flange diameter (mm)		70.6	70.6	52.8	52.8	52.8	52.8
Seal		Labyrinth & Contact	Contact	Labyrinth & Contact	Contact	-	-
Internal grease sleeve		-	-	-	-	-	-
Bearing	Stainless ball		-	-	-	-	-
	Cup		-	-	-	-	-
	Cone		CBN	-	-	-	-
Disc mount	Outer serration rotor lock ring		-	-	-	-	-
	Center lock mount cover option		-	-	-	X	X
Hub shell	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Painted
Axle	Material		Steel	Steel	Steel	Steel	Steel
	Finish		-	-	-	-	-
QR lever	Material		Aluminum	Steel	Aluminum	Steel	Steel
	Finish		Anodized	Plated	Barrel	Plated	Plated
	Color		Black	Black	Black	Black	Black
QR housing	Material		Aluminum	Steel	Steel	Steel	Steel
	Finish		Anodized	Plated	Plated	Plated	Plated
QR nut	Material		Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish		-	-	-	-	-
Average weight		-	-	-	-	-	-
Note							Spoke hole 24H spec available

MTB / Front Hub

Series		TOURNEY TX	TOURNEY TX	SHIMANO	
Model no.		HB-TX800-QR	HB-TX800-NT	HB-TX505	
Color	1	Black	Black	Black	
	2	Silver	Silver	-	
Brake Type		Rim	Rim	Center Lock Disc	
O.L.D. (mm)		100	100	100	
Spoke hole	32H	X	X	X	
	36H	X	X	X	
Axle	Fixing method		QR	Nut	
	QR skewer length (mm)	129	X	-	
		133	X	-	
	Length (mm)		108	140	108
	Diameter (mm)		9	9	10
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-
		100x15	-	-	-
110x20		-	-	-	
Flange distance (mm)		71.6	71.6	60.2	
Offset (mm)		0	0	5.5	
P.C.D. Left / Right (mm)		38/38	38/38	44/44	
Flange diameter (mm)		46	46	52.8	
Seal		-	-	-	
Internal grease sleeve		-	-	-	
Bearing	Stainless ball		-	-	
	Cup		-	-	
	Cone		-	-	
Disc mount	Outer serration rotor lock ring		-	-	
	Center lock mount cover option		-	X (depending on request)	
Hub shell	Material		Aluminum	Aluminum	
	Finish		Painted (Black) Shiny (Silver)	Painted (Black) Shiny (Silver)	
Axle	Material		Steel	Steel	
	Finish		-	-	
QR lever	Material		Steel	Steel	
	Finish		Plated	Plated	
	Color		Black (Black color spec) Silver (Silver color spec)	-	
QR housing	Material		Steel	Steel	
	Finish		Plated	Plated	
QR nut	Material		Resin & Steel	Resin & Steel	
	Finish		-	-	
Average weight		-	-	-	
Note		-	-	create 24/28 hole spec depending on request	

MTB / 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
Average weight		-	-
Note			

MTB / Wheel

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		WH-M9000-TU-F15-29	WH-M9000-TU-R-29	WH-M9000-TU-R12-29	WH-M9000-TL-F15-29	WH-M9000-TL-R-29	WH-M9000-TL-R12-29
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
Rear speeds		-	MTB 11-speed***	MTB 11-speed***	-	MTB 11-speed***	MTB 11-speed***
O.L.D. (mm)		100	135	142	100	135	142
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	QR	12mm E-Thru	15mm E-Thru	QR	12mm E-Thru
	QR skewer length (mm)	133	-	-	-	-	-
		168	-	X	-	-	X
		173	-	X	-	-	X
	Length (mm)	100	146	142	100	146	142
	Diameter (mm)	17.5	16	16	17.5	16	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°)	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	Outer serration rotor lock ring	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)
Rim	Material	CFRP	CFRP	CFRP	Carbon/ Aluminum	Carbon/ Aluminum	Carbon/ Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Freehub body	Material	-	Titanium	Titanium	-	Titanium	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	742g	739g	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 11-speed	* Max pressure 280kPa ** Exclusive rim tape ***CP is available only for 11-speed

MTB / Wheel

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		WH-M9000-TL-F15-275	WH-M9000-TL-R-275	WH-M9000-TL-R12-275	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
Rear speeds		-	MTB 11-speed***	MTB 11-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	29x2.10-2.35	29x2.10-2.35	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
	Requires rim tape	X**	X**	X**	X**	X**	X**
Spokes	Number	28	28	28	28	28	28
	Straight pull	X	X	X	X	X	X
	J-bend	-	-	-	-	-	-
	Butted	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0
	Bladed	-	-	-	-	-	-
Axle	Fixing method	15mm E-Thru	QR	12mm E-Thru	15mm E-Thru	12mm E-Thru	15mm E-Thru
	QR skewer length (mm)	133	-	-	-	-	-
		168	-	X	-	-	-
		173	-	X	-	-	-
	Length (mm)	100	146	142	100	142	100
	Diameter (mm)	17.5	16	16	17.5	16	17.5
	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	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	Outer serration rotor lock ring	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)	X (Aluminum)
Rim	Material	Carbon/Aluminum	Carbon/Aluminum	Carbon/Aluminum	Carbon/Aluminum	Carbon/Aluminum	Carbon/Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Freehub body	Material	-	Titanium	Titanium	-	Titanium	-
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
QR lever	Material	-	Aluminum	-	-	-	-
	Finish	-	Anodized	-	-	-	-
	Color	-	Series color	-	-	-	-
QR housing	Material	-	Aluminum	-	-	-	-
	Finish	-	Anodized	-	-	-	-
QR nut	Material	-	Resin & Steel	-	-	-	-
	Finish	-	-	-	-	-	-
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 11-speed	* Max pressure 280kPa ** Exclusive rim tape ***CP is available only for 11-speed	* Max pressure 260kPa ** Exclusive rim tape	* Max pressure 260kPa ** Exclusive rim tape ***CP is available only for 11-speed	* Max pressure 260kPa ** Exclusive rim tape

MTB / 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
Rear 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	27.5x2.10-2.40	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)	16	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	Contact	-
Internal grease sleeve		X	X	X	X	X	X
Disc mount	Outer serration rotor lock ring	X (Aluminum)	-	X (Aluminum)	-	-	-
Rim	Material	Carbon/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 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

MTB / 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
Rear speeds		-	8-10 speed MTB 11-speed	8-10 speed MTB 11-speed	-	8-10 speed MTB 11-speed	-
O.L.D. (mm)		100	135	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	23.9	23.9	23.9
	Rim joint	Welding	Welding	Welding	Welding	Welding	Welding
	Brazed reinforcement	-	-	-	-	-	-
	Offset rim	X	X	X	X	X	X
	Requires rim tape	X**	X**	X**	X**	X**	X**
Spokes	Number	28	28	28	28	28	28
	Straight pull	X	X	X	X	X	X
	J-bend	-	-	-	-	-	-
	Butted	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0
	Bladed	-	-	-	-	-	-
Axle	Fixing method	15mm E-Thru	QR	12mm E-Thru	15mm E-Thru	12mm E-Thru	15mm E-Thru
	QR skewer length (mm)	133	-	-	-	-	-
		168	-	X	-	-	-
		173	-	X	-	-	-
	Length (mm)	100	146	142	100	142	100
	Diameter (mm)	17.5	16	16	17.5	16	17.5
	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	Outer serration rotor lock ring	X (Aluminum)	-	-	X (Aluminum)	-	X (Aluminum)
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Freehub body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
QR lever	Material	-	Aluminum	-	-	-	-
	Finish	-	Anodized	-	-	-	-
	Color	-	Series color	-	-	-	-
QR housing	Material	-	Aluminum	-	-	-	-
	Finish	-	Anodized	-	-	-	-
QR nut	Material	-	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)		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

MTB / Wheel

Series		DEORE XT	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-M8020-TL-R12-275	WH-MT68-F15	WH-MT68-R12	WH-MT68-R	WH-MT66-F15	WH-MT66-F
Color	1	Series color	Black	Black	Black	Black	Black
	2	-	White	White	White	White	White
Front / Rear		Rear	Front	Rear	Rear	Front	Front
Brake Type		Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc
Rear speeds		8-10 speed MTB 11-speed	-	8-10 speed MTB 11-speed***	8-10 speed MTB 11-speed***	-	-
O.L.D. (mm)		142	100	142	135	100	100
Wheel Size		584x24C (650B=27.5")	559x21C (26")	559x21C (26")	559x21C (26")	559x19C (26")	559x19C (26")
Tire	Type	UST / Clincher *	UST/cincher	UST/cincher	UST/cincher	UST/cincher	UST/cincher
	Recommended size	27.5x2.00-2.40	26x1.95-2.50	26x1.95-2.50	26x1.95-2.50	26x1.50-2.25	26x1.50-2.25
Rim	Height (mm)	18.8	20.5	20.5	20.5	19	19
	Width (mm)	27.9	25.8	25.8	25.8	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**
Spokes	Number	28	24	24	24	24	24
	Straight pull	X	X	X	X	X	X
	J-bend	-	-	-	-	-	-
	Butted	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0
	Bladed	-	-	-	-	-	-
Axle	Fixing method	12mm E-Thru	15mm E-Thru	12mm E-Thru	QR	15mm E-Thru	QR
	QR skewer length (mm)	133	-	-	-	-	X
		168	-	-	-	X	-
		173	-	-	-	X	-
	Length (mm)	142	100	142	146	100	108
	Diameter (mm)	16	-	14	14	-	14
Thru Axle Length x Inner Diameter (mm)	100x15	-	X	-	-	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	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	Outer serration rotor lock ring	-	X (Aluminum)	-	-	X (Aluminum)	-
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Paint	Paint
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	Black	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	Aluminum	Aluminum	Steel	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	-	Anodized	Anodized	-
QR lever	Material	-	-	-	Aluminum	-	Aluminum
	Finish	-	-	-	Anodized	-	Anodized
	Color	-	-	-	Black	-	Black
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)		1046g	851g	1036g	1050g	802g	816g
Note		* Max pressure 300kPa ** 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	** Exclusive rim tape	** Exclusive rim tape

MTB / Wheel

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-MT66-R	WH-MT66-F15-29	WH-MT66-F-29	WH-MT66-R12-29	WH-MT66-R-29	WH-MT35-F
Color	1	Black	Black	Black	Black	Black	Black
	2	White	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
Rear speeds		8-10 speed MTB 11-speed***	-	-	8-10 speed MTB 11-speed***	8-10 speed MTB 11-speed***	-
O.L.D. (mm)		135	100	100	142	135	100
Wheel Size		559x19C (26")	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	26x1.50-2.25	29x1.50-2.25	29x1.50-2.25	29x1.50-2.25	29x1.50-2.25	26x1.50-2.25
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**	X**	X**	X**	X**	X (20-559)
Spokes	Number	24	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		QR	15mm E-Thru	QR	12mm E-Thru	QR
	QR skewer length (mm)	133	-	-	X	-	X
		168	X	-	-	-	X
		173	X	-	-	-	X
	Length (mm)		146	100	108	142	146
	Diameter (mm)		14	14	14	14	14
Thru Axle Length x Inner Diameter (mm)	100x15	-	X	-	-	-	
	142x12	-	-	-	X	-	
Quick engagement		X (32points/360°)	-	-	X (36points/360°)	X (32points/360°)	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	Freehub body	Contact	-	-	Contact	Contact	-
Internal grease sleeve		X	X	X	X	X	-
Disc mount	Outer serration rotor lock ring	-	X (Aluminum)	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rim	Finish	Paint	Anodized	Anodized	Anodized	Anodized	Anodized(Black rim)/ Painted(White rim)
	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	Black	Black	Black	Black	Black	Black
	Material	Steel	-	-	Steel	Steel	-
Freehub body	Finish	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Hub shell	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Steel	Aluminum	Steel	Steel	Steel	Steel
Axle	Finish	-	Anodized	-	-	-	-
	Material	Aluminum	-	Aluminum	-	Aluminum	Aluminum
QR lever	Finish	Anodized	-	Anodized	-	Anodized	Painted
	Color	Black	-	Black	-	Black	Black
	Material	Aluminum	-	Aluminum	-	Aluminum	Steel
QR housing	Finish	Anodized	-	Anodized	-	Anodized	Painted
	Material	Resin & Steel	-	Resin & Steel	-	Resin & Steel	Resin & Steel
QR nut	Finish	-	-	-	-	-	-
	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	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)		1001g	882g	896g	1101g	1115g	839g
Note		** Exclusive rim tape ***CP is available only for 9 & 10-speed	** 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	

MTB / 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
Rear 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
	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	Labyrinth & Contact
	Freehub body	-	Contact	-	-	Contact	-
Internal grease sleeve		X	X	-	X	X	-
Disc mount	Outer serration rotor lock ring	X (Steel)	-	-	X (Steel)	-	-
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized(Black rim)/ Painted(White rim)	Anodized(Black rim)/ Painted(White rim)	Anodized(Black rim)/ Painted(White rim)	Anodized(Black rim)/ Painted(White rim)	Anodized(Black rim)/ Painted(White rim)	Anodized(Black rim)/ Painted(White rim)
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black	Black	Black	Black	Black	Black
Freehub body	Material	-	Steel	-	-	Steel	-
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Steel	Steel	Aluminum	Steel	Steel
	Finish	Anodized	-	-	Anodized	-	-
QR lever	Material	-	Aluminum	Aluminum	-	Aluminum	Aluminum
	Finish	-	Painted	Painted	-	Painted	Painted
	Color	-	Black	Black	-	Black	Black
QR housing	Material	-	Steel	Steel	-	Steel	Steel
	Finish	-	Painted	Painted	-	Painted	Painted
QR nut	Material	-	Resin & Steel	Resin & Steel	-	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Reflector	JIS/CPSC	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW
	AS	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW
	DIN	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)		834g	1076g	874g	889g	1091g	908g
Note			***CP is available only for 9 & 10-speed			***CP is available only for 9 & 10-speed	

MTB / Wheel

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-MT35-F15-29	WH-MT35-R-29	WH-MT15-A-F	WH-MT15-A-F15	WH-MT15-A-R	WH-MT15-A-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
Rear 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")	559x19C (26")	559x19C (26")	559x19C (26")	622x19C (29")
Tire	Type	-	Clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size	29x1.50-2.25	29x1.50-2.25	26x1.50-2.25	26x1.50-2.25	26x1.50-2.25	29x1.50-2.25
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 (20-559)	X (20-559)	X (20-559)	X (20-622)
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
	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	Labyrinth & Contact
	Freehub body	-	Contact	-	-	Contact	-
Internal grease sleeve		X	X	-	X	X	-
Disc mount	Outer serration rotor lock ring	X (Steel)	-	-	X (Steel)	-	-
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized(Black rim)/ Painted(White rim)	Anodized(Black rim)/ Painted(White rim)	Anodized(Black rim)/ Painted(White rim)	Anodized(Black rim)/ Painted(White rim)	Anodized(Black rim)/ Painted(White rim)	Anodized(Black rim)/ Painted(White rim)
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Brass	Brass	Brass	Brass
	Finish	Black	Black	Silver	Silver	Silver	Silver
Freehub body	Material	-	Steel	-	-	Steel	-
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Axle	Material	Aluminum	Steel	Steel	Aluminum	Steel	Steel
	Finish	Anodized	-	-	Anodized	-	-
QR lever	Material	-	Aluminum	Aluminum	-	Aluminum	Aluminum
	Finish	-	Painted	Painted	-	Painted	Painted
	Color	-	Black	Black	-	Black	Black
QR housing	Material	-	Steel	Steel	-	Steel	Steel
	Finish	-	Painted	Painted	-	Painted	Painted
QR nut	Material	-	Resin & Steel	Resin & Steel	-	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Reflector	JIS/CPSC	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW
	AS	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW
	DIN	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)		902g	1148g	934g	928g	1143g	1036g
Note			***CP is available only for 9 & 10-speed			***CP is available only for 9 & 10-speed	

MTB / Wheel

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		WH-MT15-A-F15-29	WH-MT15-A-R-29	WH-MT15-A-F-275	WH-MT15-A-F15-275	WH-MT15-A-R-275	
Color	1	Black	Black	Black	Black	Black	
	2	White	White	White	White	White	
Front / Rear		Front	Rear	Front	Front	Rear	
Brake Type		Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc	Center Lock Disc	
Rear speeds		-	8-10 speed MTB 11-speed***	-	-	8-10 speed MTB 11-speed***	
O.L.D. (mm)		100	135	100	100	135	
Wheel Size		622x19C (29")	622x19C (29")	584x19C (650B=27.5")	584x19C (650B=27.5")	584x19C (650B=27.5")	
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher	
	Recommended size	29x1.50-2.25	29x1.50-2.25	27.5x1.90-2.25	27.5x1.90-2.25	27.5x1.90-2.25	
Rim	Height (mm)	21	21	21	21	21	
	Width (mm)	24.6	24.6	24.6	24.6	24.6	
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	
	Brazed reinforcement	-	-	-	-	-	
	Offset rim	-	-	-	-	-	
	Requires rim tape	X (20-622)	X (20-622)	X (20-584)	X (20-584)	X (20-584)	
Spokes	Number	28	28	28	28	28	
	Straight pull	-	-	-	-	-	
	J-bend	X	X	X	X	X	
	Butted	2.0	2.0	2.0	2.0	2.0	
	Bladed	X	X	X	X	X	
Axle	Fixing method		15mm E-Thru	QR	QR	15mm E-Thru	
	QR skewer length (mm)	133	-	-	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
Internal grease sleeve		X	X	-	X	X	
Disc mount	Outer serration rotor lock ring		X (Steel)	-	-	X (Steel)	
	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rim	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)	
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Spoke	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish		Black	Black	Black	Black	Black
Nipple	Material		Brass	Brass	Brass	Brass	
	Finish		Silver	Silver	Silver	Silver	Silver
Freehub body	Material		-	Steel	-	-	
	Finish		-	-	-	-	-
Hub shell	Material		Aluminum	Aluminum	Aluminum	Aluminum	
	Finish		Painted	Painted	Painted	Painted	Painted
Axle	Material		Aluminum	Steel	Steel	Aluminum	
	Finish		Anodized	-	-	Anodized	-
QR lever	Material		-	Aluminum	Aluminum	-	
	Finish		-	Painted	Painted	-	
	Color		-	Black	Black	-	
QR housing	Material		-	Steel	Steel	-	
	Finish		-	Painted	Painted	-	
QR nut	Material		-	Resin & Steel	Resin & Steel	-	
	Finish		-	-	-	-	
Reflector	JIS/CPSC		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	
	DIN		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)		1031g	1246g	1002g/Black 1007g/White	995g/Black 1000g/White	1204g/Black 1209g/White	
Note			***CP is available only for 9 & 10-speed			***CP is available only for 9 & 10-speed	

MTB / 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	-	-	-	-	-	-
	25.0	-	-	-	-	-	-
	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	-	-	-
Average weight		-	-	-	-	-	-
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

ARCHIVE

MTB / CI-DECK

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	-	-	-
	25.0	-	-	-
	22.2 / 25.0	X	-	-
C.I.D upper cover	Material	-	-	-
	Color	-	-	-
C.I.D body	Material	-	-	-
	Color	-	-	-
Clamp band	Material	Resin	-	-
	Color	-	-	-
Average weight		-	-	-
Note		Bracket for ID-TX51/SC-TX35/SM-TX37	Cowling Use with SM-TX35-A	Analog compass Use with SM-TX20-A/TX35-A

ARCHIVE

TREKKING / Shift Lever

Series	DEORE XT	DEORE XT	DEORE LX	DEORE LX	DEORE	DEORE	
Model no.	SL-T780-L	SL-T780-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 B-type compatible	-	-	-	-	-	-	
I-specII 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	-	-	-	-	-	-
Recommended SL outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
Average weight (pc)	126g	134g	260g/pair	260g/pair	-	-	
Note							

TREKKING / Brake Lever (Hydraulic Disc Brake)

Series	DEORE XT	DEORE LX	DEORE	SHIMANO
Model no.	BL-T785-B	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	Black	Black	Black
	2	Silver	Silver	Silver
	3	-	-	White
Brake hose (Kit)	SM-BH90-SB	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
	2	-	-	White
Recommended brake caliper	BR-M785	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
Free stroke adjust	-	-	-	-
Servo wave mechanism	-	-	-	-
Clamp band	Open clamp	X	X	X
	I-spec	X*	X*	X*
Brake lever	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
J-kit option available	-	-	-	-
Average weight	120.45g	126g	-	-
Note	*I-spec B-type	*I-spec B-type	*I-spec B-type	-

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TREKKING / 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		

ARCHIVE

TREKKING / 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	
Compatible brake type	V-BRAKE	X	X	X	X	
	Mechanical disc brake (MTB)	X	X	X	X	
	Mechanical disc brake (Road)	-	-	-	-	
	Caliper (SLR EV)	-	-	-	-	
	Caliper (new super SLR)	-	-	-	-	
	Caliper (super SLR)	-	-	-	-	
	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	Material	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	
Average weight		-	-	-	-	
Note				*Stainless steel option available	*Stainless steel option available	

TREKKING / Rear Derailleur

Series		DEORE XT	DEORE LX	DEORE	ALIVIO	ACERA
Model no.		RD-T780-SGS	RD-T670-A-SGS	RD-T610-SGS	RD-T4000	RD-T3000
Pulley cage		SGS	SGS	SGS	SGS	SGS
Color	1	Silver	Silver	Black	Black	Black
	2	Black	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
Top-Normal spring type	SHADOW RD	-	-	-	-	-
	SHADOW RD+	-	-	-	-	-
	Double servo	X	X	X	X	X
Direct attachment (Conventional)		X	X	X	X	X
Direct mount compatible		-	-	-	-	-
Riveted adapter	Road type	-	-	-	-	-
	BMX-Track type	-	-	-	-	-
Mode converter		-	-	-	-	-
Cable adjuster		-	-	-	X	X
Max. front difference		22T	22T	22T	22T	22T
Total capacity		45T	45T	45T	45T	45T
Low sprocket	Max.	34T	34T	34T	34T	34T
	Min.	28T	28T	28T	28T	28T
Top sprocket	Max.	12T	12T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T
Fluoric coated link bushings		4	2	2	2	1
Pulley	G pulley 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	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
B-Axle 2	Material	-	-	-	-	-
	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
Cable fixing bolt	Material	Stainless steel	Stainless steel	Steel	Stainless steel	Stainless steel
	Finish	-	-	Plated	-	-
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Stainless steel	Steel
	Finish	Plated	Plated	Plated	-	Zinc plated
Average weight (pc)		236g	-	304g	-	-
Note						

TREKKING / Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE LX	DEORE LX	DEORE LX
Model no.		FD-T780-3	FD-T780-6	FD-T781-3	FD-T670-3	FD-T670-6	FD-T671-3
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	Silver	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
	BB Plate	-	-	-	-	-	-
	Without BB Plate	-	-	-	-	-	-
Cable route type	Direct Mount	-	-	-	-	-	-
	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		-	-	-	-	-	-
Angled stroke adjust bolt		-	-	-	-	-	-
Angled clamp band design		X	X	X	X	X	X
Link bushings		2	2	8	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	Steel	Steel	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)		155g	155g	167.7g	157g	157g	172g
Note							

TREKKING / 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
	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)		-	-	-	-	-	-
Note							

TREKKING / 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
	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)		-	-	
Note		-	-	

TREKKING / 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)		-	-
Note			

ARCHIVE

TREKKING / Brake (V-BRAKE)

Series	DEORE XT	DEORE LX	DEORE	SHIMANO	SHIMANO	
Model no.	BR-T780	BR-T670	BR-T610	BR-T4000	BR-T4010	
Color	1	Black	Black	Black	Black	
	2	Silver	Silver	Silver	Silver	
	3	-	-	-	-	
Brake type	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	
Brake shoe	Standard 1	S70C	S70C	S70C	S65T	S70C
	Standard 2	M70CT4	M70CT4	M70CT4	-	-
	Option 1	-	M70T3	S70T	M65T4	M70R2
	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	
	Y type	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						

ARCHIVE

TREKKING / Crankset

Series		DEORE XT	DEORE XT	DEORE LX	DEORE	SHIMANO	SHIMANO
Model no.		FC-T780	FC-T781	FC-T671	FC-T611	FC-T551	FC-T521
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	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 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-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
Arm adapter		-	-	X	-	-	X
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 44-32-24T
Q-factor (mm)		175	181.5	181.7	181.7	181.1	185.8
Crank arm length (mm)	165.0	X	X	-	-	-	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	X	X	X	X	X	X
	Without chain / bash guard	X	X	X	X	X	X
Crank arm fixing bolt	With	-	-	-	-	-	X
	Without	X	X	X	X	X	-
HOLLOWTECH II Technology		X	X	X	-	-	-
2-piece crank construction		-	-	-	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)	SM-BB70	SM-BB70	SM-BB70	SM-BB52	SM-BB52	BB-E5300
	Threaded (E-type)	-	-	-	-	-	BB-E5300-E
	Threaded (chain case)	-	SM-BB70	SM-BB70	SM-BB52	SM-BB52	BB-E5300-AK
	Pressfit	SM-BB71-41A	-	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-	121-AK
	Threaded (E-type)	-	-	-	-	-	121-E*
	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	Anodized	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	-
	Finish	Plated	Plated	Plated	Plated	Plated	-
Spider arm	Material	Aluminum	Aluminum	-	-	-	Aluminum
	Finish	Painted	Painted	-	-	-	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	Aluminum	Aluminum (48-36-26T) Steel +CF composite (44-32-24T)	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)
	Finish	Plated	Plated	Plated	Painted	Plated	Painted
Inner ring	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Painted	Painted	Plated	Painted
Outer / middle ring fixing bolt	Material	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	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
Crank fixing bolt included		-	-	-	-	-	X
Average weight (175mm, w/o BB)		950g	965g (48-36-26T) 940g (44-32-24T)	992g (48-36-26T) 958g (44-32-24T)	-	-	-
Note				4 arm integrated crank arm W/O CG spec available			

TREKKING / Crankset

Series		ALIVIO	SHIMANO	ACERA	SHIMANO
Model no.		FC-T4060	FC-T4010	FC-T3010-8	FC-T3010
Color	1	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver
Rear speeds		9	9	9	9
Compatible chain		HG for 9-speed	HG for 9-speed	HG for 9-speed	HG for 9-speed
Chain line (mm)		50	50	50	50
P.C.D. (mm)		104/64	104/64	104/64	104/64
Gear arms		4arm	4arm	4arm	4arm
Arm adapter		-	X	-	-
Chain ring combination		48-36-26T 44-32-22T	48-36-26T 44-32-22T	48-36-26T 44-32-22T	48-36-26T 44-32-22T
Q-factor (mm)		181.7	187.8	187.3	187.3
Crank arm length (mm)	165.0	X	X	X	X
	167.5	-	-	-	-
	170.0	X	X	X	X
	172.5	-	-	-	-
	175.0	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
Crank arm fixing bolt	With	-	X	X	X
	Without	X	-	-	-
HOLLOWTECH II Technology		-	-	-	-
2-piece crank construction		X	-	-	-
HOLLOWTECH crank arm		-	-	-	-
OCTALINK technology		-	X	X	-
HOLLOWGLIDE		-	-	-	-
Compatible BB type	Outboard	X	-	-	-
	Octalink	-	X	X	-
	Square	-	-	-	X
Recommended BB	Threaded (normal)	SM-BB52	BB-ES300	BB-ES300	BB-UN26
	Threaded (E-type)	-	-	-	-
	Threaded (chain case)	SM-BB52	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	X
	73mm	X	X	X	X
	83mm	-	-	-	-
Chain case compatible		X	X	X	X
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	-	-	-
	Finish	Plated	-	-	-
Spider arm	Material	-	Aluminum	-	-
	Finish	-	Painted	-	-
Spider arm cover	Material	-	-	-	-
	Finish	-	-	-	-
Outer ring	Material	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Middle ring	Material	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Inner ring	Material	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Outer / middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-
Stainless chain guard fixing bolt		X	X	- (48-36-26T) X (44-32-22T)	- (48-36-26T) X (44-32-22T)
Crank fixing bolt included		X	X	X	X
Average weight (175mm, w/o BB)		-	-	-	-
Note					

TREKKING / 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	8-10 speed	8-10 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	
Fixing method		QR	QR	QR	QR	QR	QR	
Axle	QR skewer length (mm)	166	-	-	-	-	X	
		168	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	-	-	-	
	Outer serration rotor lock ring	-	-	-	-	-	-	
	Center lock mount cover option	-	-	X	-	-	-	
Freehub body	6-bolt	-	-	-	-	-	-	
	Material	Steel	Steel	Steel	Steel	Steel	Steel	
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 lockring		338g	365g	369g	365g	-	-	
Note								

TREKKING / 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	Outer 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							

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CITY TOURING/COMFORT / 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-S7000-8	SG-C6010-8R	SG-C6010-8V	SG-C6000-8R	SG-C6000-8V
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-IM81 BR-C6000 BR-C3010 BR-C3000	-	BR-IM81 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	-D1	-	-	-
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	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	-	-	-
	184	-	-	X	X	X	X
	187	X	X	-	-	-	-
	193	-	-	-	-	-	-
	Others	-	-	-	-	203	203
Flange distance (mm)		57.3	57.3	58.3	58.3	58.3	58.3
Flange diameter (mm)		104.3	104.3	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset (mm)		3.15	3.15	2.7	2.7	2.7	2.7
P.C.D Left / Right. (mm)		92.6	92.6	92.6	92.6	92.6	92.6
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Average weight		1665g	1680g	1630g	1655g	1750g	1775g
Note							

CITY TOURING/COMFORT / 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-C6000-8C	SG-C6000-8D	SG-C6000-8CD	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	Center Lock Type	Coaster and Special disc brake mount for SM-RTC60	Inter-M	Coaster	Coaster
	Recommended Model	-	BR-M395	-	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
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	X	-	-
	184	X	X	-	-	-	-
	187	-	-	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	3.15	4	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	-	-	1592g	1963g	1963g
Note							

CITY TOURING/COMFORT / 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-3R40	SG-3C41
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	Coaster
	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	-
Speeds		5	5	5	5	3	3
Gear ratio	Total	206%	206%	206%	206%	186%	186%
	1	0.750	0.750	0.750	0.750	0.733	0.733
	2	1.001	1.001	1.001	1.001	1.000	1.000
	3	1.159	1.159	1.159	1.159	1.360	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	-	-	-	-	-	-
Top-Normal		-	-	-	-	-	-
Silent clutch		X	X	X	X	-	-
Gear change support mechanism		-	-	-	-	X	X
Shifting power modulator		-	-	-	-	X	X
Driving efficiency		Standard	Standard	Standard	Standard	Standard	Standard
w/ Left hand dust cap		-	X	-	X	-	-
O.L.D. (mm)		132	132	132	132	120.4/126.8	120/127.4
Spoke size		#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14	#13 / #14
Spoke hole	28H	-	-	-	-	X	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	-	-	-	-	-	-
	Others	210/215	210	-	-	170/177/189/192	168/175/178
Flange distance (mm)		54.6	54.6	54.6	54.6	53	57.5
Flange diameter (mm)		86	86	88.6	86	84	67.5
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	2.3	2.3
Offset (mm)		0.3	0.3	0.3	0.3	0.8	1.2
P.C.D Left / Right. (mm)		76	76	76	76	74	59
Hub shell	Material	Steel	Steel	Aluminum	Aluminum	Steel	Steel
	Finish	Plated	Plated	Painted	Painted	Plated	Plated
Average weight		1305g	1330g	1230g	1255g	885g	1120g
Note		*Japanese market only	*Japanese market only	*Japanese market only	*Japanese market only		

CITY TOURING/COMFORT / Internal Geared Hub

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

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CITY TOURING/COMFORT / Chain Tensioner

Series		ALFINE	ALFINE	ALFINE
Model no.		CT-S500	CT-S510	CT-S510
Color	1	Silver	-	
	2	Black	-	
	3	-	Silver&Black	
Speeds		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	
Direct attachment		-	-	
Structure		Double pulley	Single pulley	
Tensioner arm	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Average weight		-	-	-
Note				

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CITY TOURING/COMFORT / Cassette Sprocket

Series		ALFINE
Model no.		CS-5500
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)	
Compatible chain	Super Narrow HG for 9-speed	X (CN-HG93 CN-HG53)
	HG 8-speed (1/2"x3/32")	-
	1/2"x1/8"	-
Gear	Material	Steel
	Finish	Chrome plated
Average weight		-
Note		

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CITY TOURING/COMFORT / Shift Lever

Series	ALFINE	ALFINE	NEXUS	NEXUS	NEXUS	NEXUS
Model no.	SL-S700	SL-S7000-8	SL-8S31	SB-8S20-A	ST-8S20	SL-7S50
Color	1	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	-	Black
	3	-	-	-	-	-
Shifter type	Rapidfire Plus	Rapidfire Plus	REVOSHIFT	REVOSHIFT	Tap fire	Rapidfire Plus
Top-Normal	X	X	-	-	-	-
Rear speeds	11 (Inter-11 pitch)	8	8	8	8	7
Compatible SG type	SG-S700	SG-S7000-8	Inter-8	Inter-8	Inter-8	Inter-7
I-spec compatible	-	-	-	-	-	-
SL position adjust	-	-	-	-	-	-
SL cable adjust	X	X	X	X	X	X
Max. multiples shifts	2	1	7	7	1	1
Release function	Multi release	X	-	-	-	-
	Instant release	X	-	-	-	-
	2-Way release	X	X	-	-	X
Optical Gear Display	Above handlebar	Above handlebar	Window	Window	Dial	Window
LED positioning light	-	-	-	-	-	-
Multi-Bearing construction	-	-	-	-	-	-
SL bracket	Material	Aluminum	Aluminum	Resin	Aluminum	Aluminum
	Finish	Painted	Painted	Resin	Painted	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
	Finish	-	-	-	-	-
SL cable	Material	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	-	-	-	X	X	-
Brake lever size	-	-	-	4 Finger	3 Finger	-
Left hand brake lever	-	-	-	BL-IM60	BL-IM65	-
Clamping diameter (mm)	22.2	22.2	22.2	22.2	22.2	22.2
Average weight	-	-	-	-	-	-
Note						

CITY TOURING/COMFORT / Shift Lever

Series	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.	SL-7531	SB-7545	SL-5550	SL-5530	SL-5530-A	SL-3542E
Color	1	Silver	Silver	Silver	Silver	-
	2	Black	-	Black	Black	Black
	3	-	-	-	White	White
Shifter type	REVOSHIFT	REVOSHIFT	Rapidfire Plus	REVOSHIFT	REVOSHIFT	REVOSHIFT
Top-Normal	-	-	-	-	-	-
Rear speeds	7	7	5	5	5	3
Compatible SG type	Inter-7	Inter-7	Inter-5	Inter-5	Inter-5	Inter-3
I-spec compatible	-	-	-	-	-	-
SL position adjust	-	-	-	-	-	-
SL cable adjust	X	X	X	X	X	-
Max. multiples shifts	6	6	1	4	4	2
Release function	Multi release	-	-	-	-	-
	Instant release	-	-	-	-	-
	2-Way release	-	-	-	-	-
Optical Gear Display	Window	Dial	Window	Window	Window	Window
LED positioning light	-	-	-	-	-	-
Multi-Bearing construction	-	-	-	-	-	-
SL bracket	Material	Resin	Aluminum	Aluminum	Resin	Resin
	Finish	Resin	Painted	Painted	Resin	Resin
Main lever body	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Release lever body	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-
SL cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-
Recommended SL outer casing	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed
Stainless clamp bolt	-	-	-	-	-	-
Brake lever integrated	-	X	-	-	-	-
Brake lever size	-	3 Finger	-	-	-	-
Left hand brake lever	-	BL-IM45	-	-	-	-
Clamping diameter (mm)	22.2	22.2	22.2	22.2	22.2	22.2
Average weight	-	-	-	-	-	-
Note						

CITY TOURING/COMFORT / Shift Lever

Series	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	
Model no.	SL-3S41E	SL-3S35E	SL-3S58 J	SL-3S42 J	SL-3S43 J	SL-3S90	
Color	1	-	Silver	Silver	Silver	Gray	
	2	Black	Black	Black	Black	Black	
	3	-	White	-	White	-	
Shifter type	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	Piano-touch	
Top-Normal	-	-	-	-	-	-	
Rear speeds	3	3	3	3	3	3	
Compatible SG type	Inter-3	Inter-3	Inter-3	Inter-3	Inter-3	Inter-3	
I-spec compatible	-	-	-	-	-	-	
SL position adjust	-	-	-	-	-	-	
SL cable adjust	-	-	-	-	-	-	
Max. multiples shifts	2	2	2	2	2	2	
Release function	Multi release	-	-	-	-	-	
	Instant release	-	-	-	-	-	
	2-Way release	-	-	-	-	-	
Optical Gear Display	Window	Dial	Window	Window	Window	Dial	
LED positioning light	-	-	-	-	-	-	
Multi-Bearing construction	-	-	-	-	-	-	
SL bracket	Material	Resin	Aluminum	Resin	Resin	Resin	Steel
	Finish	Resin	Painted	Resin	Resin	Resin	Painted
Main lever body	Material	-	-	-	-	-	Resin & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	-	-	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
Recommended SL outer casing	Sealed	Sealed	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	22.2	22.2	
Average weight	-	-	-	-	-	-	
Note			For Japanese market	For Japanese market	For Japanese market	For Japanese market	

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CITY TOURING/COMFORT / Shift Lever

Series		NEXUS
Model no.		SL-3S91J
Color	1	-
	2	-
	3	White
Shifter type		Piano-touch
Top-Normal		-
Rear speeds		3
Compatible SG type		Inter-3
I-spec compatible		-
SL position adjust		-
SL cable adjust		-
Max. multiples shifts		2
Release function	Multi release	-
	Instant release	-
	2-Way release	-
Optical Gear Display		Dial
LED positioning light		-
Multi-Bearing construction		-
SL bracket	Material	Steel
	Finish	Painted
Main lever body	Material	Resin & Steel
	Finish	-
Release lever body	Material	Resin & Steel
	Finish	-
Base cover	Material	Resin
	Finish	-
SL cable	Material	Steel
	Finish	Standard
Recommended SL outer casing		Normal
Stainless clamp bolt		-
Brake lever integrated		-
Brake lever size		-
Left hand brake lever		-
Clamping diameter (mm)		22.2
Average weight		-
Note		For Japanese market

ARCHIVE

CITY TOURING/COMFORT / 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*
Brake lever	Material	Aluminum
	Finish	Anodized
Master cylinder	Material	Aluminum
	Finish	Painted
Average weight		-
Note		*I-spec B-type compatible

ARCHIVE

CITY TOURING/COMFORT / Brake Lever

Series		NEXUS	NEXUS	NEXUS	NEXUS
Model no.		BL-C6010	BL-IM65	BL-IM60-A	BL-IM45
Color	1	Silver	Silver	Silver	Silver
	2	Black	-	-	-
	3	-	-	-	-
Compatible brake type	V-BRAKE	X	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	X
Recommended power modulator	V-BRAKE	SM-PM40	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	22.2
Internal bumper stop		X	-	-	-
Lever size (Finger)		4	3	4	4
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	Painted	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Stainless clamp bolt		X	X	X	X
Average weight		-	-	-	-
Note		* Brake lever ratio is different from BL-C6000 for better performance with BR-C6000, C3000 series.		* Left only	* Left only

ARCHIVE

CITY TOURING/COMFORT / Brake (Disc Brake)

Series		ALFINE
Model no.		BR-5700
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-5700-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
Average weight		-
Note		

ARCHIVE

CITY TOURING/COMFORT / 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	-	-	-	-	-	-
Average weight	-	-	-	-	-	-
Note*Performance index rating uses BR-C3000 brake unit as a reference value of 1. Testing condition						

ARCHIVE

CITY TOURING/COMFORT / Brake (Roller Brake)

Series	NEXUS	NEXUS	NEXUS	SHIMANO	SHIMANO	NEXUS
Model no.	BR-IM86-F	BR-IM81-F	BR-IM81-R	BR-IM35	BR-IM35	BR-IM31
Front	X	X	-	X	-	X
Rear	-	-	X	-	X	-
Structure type	Hyper	Hyper	Hyper	Normal	Normal	Normal
Braking power (*1)	1.3	1.3	1.3	1	1	1
Cooling fin diameter (mm)	180	180	180	160	160	90
Heat dissipation (*1)	2.3	2.3	2.3	1.4	1.4	Less than 1
Without cooling fin	-	-	-	-	-	-
Inner cable quick release	X	X	X	-	-	-
Disc brake mount compatible	X	-	-	-	-	-
Average weight	-	-	-	-	-	-
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	Recommended for Japanese market

ARCHIVE

CITY TOURING/COMFORT / Brake (Roller Brake)

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

ARCHIVE

CITY TOURING/COMFORT / Crankset

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

CITY TOURING/COMFORT / 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		-
Average weight		-
Note		

ARCHIVE

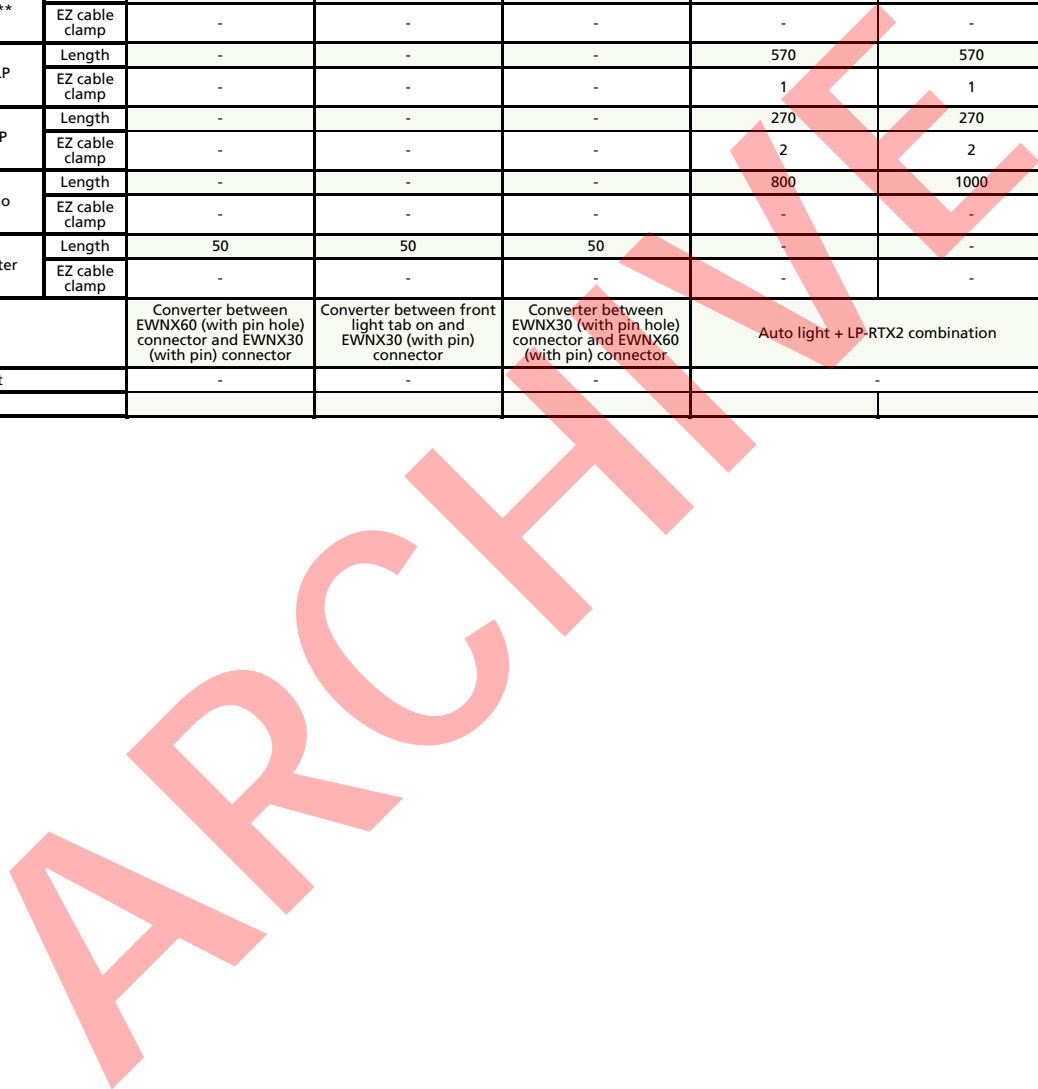
CITY TOURING/COMFORT / Head Parts

Series		NEXUS
Model no.		HP-NX10
Color	1	Black
	2	-
A (mm)	φ30.01 (φ29.85) or φ30.2 (φ30)	
B (mm)	30.5 - 31.5	
Front fork stem thread Size		BC 1" X 24 T.P.I
C (mm)	Max. φ38	
D (mm)	21.7	
Head tube material		Steel
Average weight		-
Note		

ARCHIVE

CITY TOURING/COMFORT / 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 + SL/SMRS34 combination
Average weight		-	-	-	-			-
Note								



CITY TOURING/COMFORT / Electric Wire

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	175
		EZ cable clamp	2	2	2
	Cord to SM / SM-L	Length	215	65	215
		EZ cable clamp	2	1	2
	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	1000	800	1000
		EZ cable clamp	-	-	-
Cord for converter	Length	-	-	-	
	EZ cable clamp	-	-	-	
Usage		Auto light + SL/SMRS34 combination	PHF combination (Auto light + SL/SMRS34 + LP-RTX2)		
Average weight		-	-	-	
Note		-	-	-	

ARCHIVE

CITY TOURING/COMFORT capreo / Shift Lever

Series		CAPREO
Model no.		SL-F800
Color	1	Silver
	2	-
Shifter type		Rapidfire Plus
Front speeds		-
Rear speeds		9
Compatible RD Type		Capreo 9-speed RD
I-spec compatible		-
SL position adjust		-
SL cable adjust		X
Max. multiple shifts (Main lever/ rear)		3
Release function	Multi release	-
	Instant release	-
	2-Way release	X
Optical Gear Display	with	X
	with (removable)	-
	without	-
Multi-Bearing construction		-
SL bracket	Material	Aluminum
	Finish	Painted
SL cable	Material	Stainless steel
	Finish	-
Recommended SL outer casing		SP41 sealed
Average weight		-
Note		

ARCHIVE

CITY TOURING/COMFORT capreo / Brake Lever

Series		CAPREO
Model no.		BL-F800
Color	1	Silver
	2	-
	3	-
Compatible brake type	V-BRAKE	X
Recommended power modulator	V-BRAKE	SM-PM60
Clamp band	Open clamp band	-
	I-spec compatible	-
	Diameter (mm)	22.2
Internal bumper stop		X
Lever size (finger)		2
Brake cable type		T-type
Power adjuster		-
Servo-Wave action		-
Reach adjust		X
Cable adjust		X
Brake lever	Material	Aluminum
	Finish	Anodized
Brake bracket	Material	Aluminum
	Finish	Painted
Average weight		-
Note		with internal bumper stop

ARCHIVE

CITY TOURING/COMFORT capreo / Rear Derailleur

Series		CAPREO	CAPREO
Model no.		RD-F800-SS	RD-F800-GS
Pulley cage		SS	GS
Color	1	Silver	Silver
	2	-	-
Rear speeds		9	9
Compatible chain		HG 9-speed	HG 9-speed
Top-Normal spring type	SHADOW RD	X	X
	SHADOW RD+	-	-
	Double servo	-	-
Direct attachment (Conventional)		X	X
Cable adjuster		-	-
Max. front difference		Only single	Only single
Total capacity		17	17
Low sprocket	Max.	26	26
	Min.	26	26
Top sprocket	Max.	9	9
	Min.	9	9
Fluoric coated link bushings		3	3
Pulley	G pulley bearing	-	-
	T pulley bearing	-	-
	Teeth	11	11
	Bolts material	Stainless steel	Stainless steel
	Bolts retainer	-	-
	Sunken type pulley bolt	X	X
Bracket	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Bracket body	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Plate body	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Outer link	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Inner link	Material	Steel	Steel
	Finish	Painted	Painted
Outer plate	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Inner plate	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Average weight		-	-
Note		SHIMANO SHADOW RD	

ARCHIVE

CITY TOURING/COMFORT capreo / Brake (V-BRAKE)

Series		CAPREO
Model no.		BR-F800
Color	1	Silver
	2	-
	3	-
Brake type		V-BRAKE
Brake shoe	Standard 1	R55C for F700/F800
	Option 1	-
Cartridge shoe holder		X
Arch size (mm)		107
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	Painted
Fixing bolt length (mm)	16	X
	25	X
Fixing bolt	Material	Steel
	Finish	Plated
	Chamfered bolt	X
Power modulator		X (Option)
Linear spring		X
Threaded BR shoe post		X
Average weight		-
Note		

ARCHIVE

CITY TOURING/COMFORT capreo / Crankset

Series		CAPREO
Model no.		FC-F800
Rear speeds		9
Chaining combination		45T
Group		-
Spider or gear arm		5-arm
P.C.D. (mm)		130
Crank arm length (mm)		170
Chain		Super narrow HG for 9-speed
Bottom bracket		BB-UN26
Axle length	chain line 46mm	MM110
	chain line 48.5mm	LL113
	chain line 50mm	YL117
	chain line 52.5+t mm	117.5
Fixing nut available		-
Chain guard		Double / Resin
HOLLOWTECH crank arm		-
Splined crank (OCTALINK)		-
One-key release		-
Chain case compatible crank arm		-
Crank arm	Material	Aluminum
	Finish	Painted
Spider arm		-
Spider arm cover		-
Chain ring	Material	Aluminum
	Finish	Anodized
Note		

ARCHIVE

CITY TOURING/COMFORT capreo / Cassette Sprocket

Series		CAPREO
Model no.		CS-HG70-S
Type		HG Cassette Sprocket
Speeds		9
Combination	9th	26
	8th	23
	7th	20
	6th	17
	5th	15
	4th	13
	3rd	11
	2nd	10
	1st	9
Group		bc
Compatible chain		HG 9-speed
Steel gear	Finish	Sn-Co plated (Top: Ni plated)
Lock ring	Material	Steel
	Finish	Sn-Co plated
Average weight		-
Note		Only for FH-F700

ARCHIVE

CITY TOURING/COMFORT capreo / 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	-
	Material	Steel
O.L.D. (mm)	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	-
	Material	Steel
Seal	Hub	X
	Freewheel	-
Hub shell	Material	Aluminum
	Finish	Anodized
Quick release lever	Material	Aluminum
	Finish	Anodized
C.B.N. (Cubic Boron Nitride)	Cone Races	-
	Cup Races	-
Stainless steel ball bearings		-
Thread for drum brake (BC1.37X24)		-
Note		

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CITY TOURING/COMFORT capreo / Front Hub

Series		CAPREO
Model no.		HB-F700
Spoke holes	24H	X
	28H	-
	32H	X
	36H	X
	40/48H	-
	P.C.D. (mm)	38
O.L.D. (mm)		100
Flange distance (mm)		71.6
Axle	QR	X
	QR skewer length (mm)	133
	Axle length (mm)	108 (M9)
	Material	Steel
	Nut	-
Seal		X
Stainless steel ball bearings		-
Strong axle		-
Hub shell	Material	Aluminum
	Finish	Anodized
C.B.N. (Cubic Boron Nitride)	Cone races	-
	Cup races	-
Quick release lever	Material	Aluminum
	Finish	Anodized
Radial lacing		X
Note		

ARCHIVE

ROAD / Shift/Brake Lever

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	105	
Model no.		ST-9001	ST-7900	ST-6800	ST-6700	ST-6703	ST-5800	
Color	1	Series color	Series color	Series color	Series color	Series color	Black	
	2	-	-	-	-	-	Silver	
Bracket cover color	1	2-Tone	Black	Black	Black	Black	Black	
	2	-	-	White	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	2	
	Rear speeds	11	10	11	10	-	11	
	Optical Gear Display unit	-	-	-	-	-	-	
	Flight Deck	-	X	-	X	X	-	
	Multi-Bearing construction	R:4 L:4	R:1	- *	1	1	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
	Polymer-coated cable	X	-	X	-	-	-	
	OPTISLICK cable	-	-	-	-	-	X	
	SIL-TEC cable	-	X	-	X	X	-	
	Stainless cable	-	-	-	-	-	-	
	SL cable	Included	X	X	X	X	X	X
		Pre assembled	X	X	X	X	X	X
	Brake lever	Reach adjust	Screw	Screw	Screw	Spacer Use	Spacer Use	Screw
Clamp band (mm)		23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
SLR EV		X	-	X	-	-	X	
New Super SLR		-	X	-	X	X	-	
Super SLR	-	-	-	-	-	-		
Bracket	Cable adjuster bracket	-	-	-	-	-	-	
	Material	CFRP	CFRP	CFRP	GFRP	GFRP	GFRP	
	Finish	CFRP	CFRP	CFRP	GFRP	GFRP	GFRP	
Main lever	Material	Carbon	Carbon	CFRP	CFRP	CFRP	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Average weight		365g/Pair	379g/Pair	425g/Pair	447g/Pair	460g/Pair	486g/Pair	
Note				* Use bush				

ROAD / Shift/Brake Lever

Series		105	105	TIAGRA	TIAGRA	TIAGRA	TIAGRA	
Model no.		ST-5700	ST-5703	ST-4700-R	ST-4700-L	ST-4703-L	ST-4600	
Color	1	Silver	Silver	Series color	Series color	Series color	Series color	
	2	Black	Black	-	-	-	-	
Bracket cover color	1	Black	Black	Black	Black	Black	Black	
	2	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	3	-	2	3	2	
	Rear speeds	10	-	10	-	-	10	
	Optical Gear Display unit	-	-	-	-	-	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	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	Polymer-coated cable	-	-	-	-	-	-	
	OPTISLICK cable	-	-	X	X	X	-	
	SIL-TEC cable	X	X	-	-	-	-	
	Stainless cable	-	-	-	-	-	X	
	SL cable	Included	X	X	X	X	X	X
		Pre assembled	X	X	X	X	X	-
	Brake lever	Reach adjust	Spacer Use	Spacer Use	screw	screw	screw	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	-	
New Super SLR		X	X	-	-	-	X	
Super SLR		-	-	-	-	-	-	
Bracket	Cable adjuster bracket	-	-	-	-	-	X	
	Material	GFRP	GFRP	Engineering Plastic	Engineering Plastic	Engineering Plastic	GFRP	
	Finish	GFRP	GFRP	-	-	-	GFRP	
Main lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Silver: Clear Coated Black Paint	Silver: Clear Coated Black Paint	Painted	Painted	Painted	Clear Coated	
Average weight		490g/Pair	507g/Pair	-	-	-	-	
Note							Integrated Cable Adjuster available	

ROAD / Shift/Brake Lever

Series		TIAGRA	SHIMANO	SORA	SORA	SHIMANO	CLARIS	
Model no.		ST-4603	ST-R460	ST-3500	ST-3503	ST-R353	ST-2400-R	
Color	1	Series color	Black	Series color	Series color	Black	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Black	Black	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
Lever type		Dual Control Lever	Dual Control Lever (ST-4600 operation style)	Dual Control Lever	Dual Control Lever	Dual Control Lever (ST-3500 operation style)	Dual Control Lever	
Shift lever	Front speeds	3	2	2	3	3	-	
	Rear speeds	-	10	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
	Polymer-coated cable	-	-	-	-	-	-	
	OPTISLICK cable	-	-	-	-	-	-	
	SIL-TEC cable	-	-	-	-	X	-	
	Stainless cable	X	X	X	X	-	X	
SL cable	Included	X	X	X	X	X	X	
	Pre assembled	-	-	-	-	-	-	
Brake lever	Reach adjust	Spacer Use	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	23.8-24.2	
	SLR EV	-	-	-	-	-	-	
	New Super SLR	X	X	X	X	X	X	
	Super SLR	-	-	-	-	-	-	
Bracket	Cable adjuster bracket	X	-	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	Painted	Painted	Painted	Painted	Painted	
Average weight		-	-	-	-	-	-	
Note		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 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	

ROAD / Shift/Brake Lever

Series		CLARIS	CLARIS	TOURNEY	TOURNEY	
Model no.		ST-2400-L	ST-2403-L	ST-A070	ST-A073-L	
Color	1	Series color	Series color	Series color	Series color	
	2	-	-	-	-	
Bracket cover color	1	Black	Black	Black	Black	
	2	-	-	-	-	
Lever type		Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	
Shift lever	Front speeds	2	3	2	3	
	Rear speeds	-	-	7	-	
	Optical Gear Display unit	X	X	X	X	
	Flight Deck	-	-	-	-	
	Multi-Bearing construction	-	-	-	-	
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SIS40	OT-SIS40
		RD side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SIS40	OT-SIS40
	Polymer-coated cable	-	-	-	-	
	OPTISLICK cable	-	-	-	-	
	SIL-TEC cable	-	-	-	-	
	Stainless cable	X	X	Option	Option	
	SL cable	Included	X	X	X	X
		Pre assembled	-	-	-	-
Brake lever	Reach adjust	Spacer Use	Spacer Use	Screw	Screw	
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
	SLR EV	-	-	-	-	
	New Super SLR	X	X	-	-	
	Super SLR	-	-	X	X	
Bracket	Cable adjuster bracket	-	-	-	-	
	Material	GFRP	GFRP	GFRP	GFRP	
	Finish	GFRP	GFRP	GFRP	GFRP	
Main lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	
Average weight		-	-	-	-	
Note		Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE	Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE			

ROAD / Shift/Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO		
Model no.		ST-R5685-L	ST-R5685-R	ST-R5505-L	ST-R5505-R		
Color	1	Series color	Series color	Series color	Series color		
	2	-	-	-	-		
Bracket cover color	1	Black	Black	Black	Black		
	2	-	-	-	-		
Shifter type		Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever		
Shift lever	Front speeds		2	-	2	-	
	Rear speeds		-	11	-	11	
	2/3 mode converter		-	-	-	-	
	Max. multiple shifts (Main lever / rear)		-	2	-	2	
	Compatible RD type		-	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	
	SL cable	Polymer-coated cable		X	X	-	-
		OPTISLICK		-	-	X	X
SIL-TECH cable		-	-	-	-		
Stainless		-	-	-	-		
Steel		-	-	-	-		
SL cable	Included		X	X	X	X	
	Pre assembled		X	X	X	X	
Brake lever	Lever size (Finger)		-	-	-	-	
	Brake hose (Kit)		SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-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-RS785	BR-RS785	BR-R5505	BR-R5505	
	Brake fluid		SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	
	Reach adjust	Tool less		-	-	-	-
		Tool		X	X	X	X
	Funnel bleeding		X	X	X	X	
Free stroke adjust		X	X	X	X		
Servo wave mechanism		X	X	X	X		
Clamp band	Open clamp		-	-	-	-	
	I-spec		-	-	-	-	
	Diameter (mm)		23.8-24.2	23.8-24.2	24	24	
Bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	
	Finish		Painted	Painted	Painted	Painted	
Brake lever	Material		Engineering Composite	Engineering Composite	Aluminum	Aluminum	
	Finish		Painted	Painted	Painted	Painted	
Shifter lever body	Main		-	-	-	-	
	Release		Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	
Master cylinder	Material		-	-	-	-	
	Finish		-	-	-	-	
Clamp band		Steel	Steel	Steel	Steel		
Average weight		649g/pair	649g/pair	665.3g/pair	665.3g/pair		
Note							

ROAD / Shift Lever

Series		DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	DURA-ACE
Model no.		SL-BSR1	SL-7900	SL-B579	SL-R780	SL-R783-L	SL-7700
Color	1	Series color	Series color	Series color	Silver	Silver	Series color
	2	-	-	-	Black	Black	-
Shifter type		Bar end Shifter	Down Tube Shifter	Bar end Shifter	Rapidfire Plus	Rapidfire Plus	Down Tube Shifter
Front speeds		2	2/3	2/3	2	3	2/3
Rear speeds		11	10	10	10	-	9
Compatible 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	

ROAD / Shift Lever

Series		DURA-ACE	SHIMANO	ULTEGRA	TIAGRA	TIAGRA	TIAGRA
Model no.		SL-BS77	SL-RS700	SL-BS64-8	SL-4700	SL-4703	SL-4600
Color	1	Series color	Silver	Series color	Series color	Series color	Series color
	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				

ROAD / Shift Lever

Series		TIAGRA	SHIMANO	SHIMANO	SORA	SORA	SHIMANO
Model no.		SL-4603	SL-R460	SL-R400	SL-3500	SL-3503	SL-R350-R
Color	1	Series color	Black	Series color	Series color	Series color	Black
	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	-	9
Compatible RD type		-	ROAD 10-speed RD	ROAD 8-speed RD	ROAD 9-speed RD	-	ROAD 9-speed RD
SL position adjust		-	-	-	-	-	-
SL cable adjust		X	X	-	X	X	X
Max. multiple shifts (Main lever/ rear)		-	4	-	3	-	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	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

ROAD / Shift Lever

Series		SHIMANO	CLARIS	CLARIS	CLARIS	CLARIS	CLARIS
Model no.		SL-R353	SL-2400-R	SL-2400-L	SL-2403-L	ST-R240-R	ST-R240-L
Color	1	Black	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus
Front speeds		3	-	2	3	-	2
Rear speeds		-	8	-	-	8	-
Compatible RD type		-	ROAD 8-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	-
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	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	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					

ROAD / Shift Lever

Series		CLARIS	A050	A050	SHIMANO	SHIMANO	SHIMANO
Model no.		ST-R243-L	SL-A050-7R	SL-A050-LN	SL-SY20A-6-STEM	SL-SY20A-7-STEM	SL-SY20A-6-D
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		Rapidfire Plus	Handle Bar Mount Shifter	Handle Bar Mount Shifter	Stem Mount Shifter	Stem Mount Shifter	Down Tube Mount Shifter
Front speeds		3	-	2 (Friction)	2 (Friction)	2 (Friction)	2 (Friction)
Rear speeds		-	7	-	6	7	6
Compatible RD type		-	ROAD 7-speed RD	-	ROAD 6-speed RD	ROAD 7-speed RD	ROAD 6-speed RD
SL position adjust		-	-	-	-	-	-
SL cable adjust		X	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		-	-	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	X	-	-	-	-	-
Optical Gear Display	With	X	-	-	-	-	-
	With (removable)	-	-	-	-	-	-
	Without	-	X	X	X	X	X
Multi-Bearing construction		-	-	-	-	-	-
SL bracket	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Main lever body	Material	Resin & Steel	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin & Steel	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
SL cable	Material	Stainless steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	Standard	Standard	Standard	Standard	Standard
Recommended SL outer casing		OT-SP41	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weight		-	-	-	-	-	-
Note							Brazed On Type

ROAD / Shift Lever

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		SL-SY20A-7-D	SL-SY20A-6-D/BAND	SL-SY20A-7-D/BAND
Color	1	Series color	Series color	Series color
	2	-	-	-
Shifter type		Down Tube Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter
Front speeds		2 (Friction)	2 (Friction)	2 (Friction)
Rear speeds		7	6	7
Compatible RD type		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
Multi-Bearing construction		-	-	-
SL bracket	Material	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated
Main lever body	Material	Resin	Resin	Resin
	Finish	-	-	-
Release lever body	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		-	-	-
Note		Brazed On Type	Band Type	Band Type

ARCHIVE

ROAD / Brake Lever

Series		SHIMANO	DURA-ACE	TIAGRA	SHIMANO	SHIMANO	SORA
Model no.		BL-R780	BL-TT79	BL-4700	BL-R550	BL-R400	BL-3500
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 (MTB)	-	-	-	-	-	-
	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
Recommended power modulator	Roller brake	-	-	-	-	-	-
	V-BRAKE	-	-	-	-	-	-
Clamp band	Mechanical disc brake (MTB)	-	-	-	-	-	-
	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.				

ROAD / Brake Lever

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 (MTB)	-	-	-	-
	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
Recommended power modulator	Roller brake	-	-	-	-
	V-BRAKE	-	-	-	-
Clamp band	Mechanical disc brake (MTB)	-	-	-	-
	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					

ROAD / Brake (Caliper Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA
Model no.		BR-9000	BR-9010-F	BR-9010-R	BR-9010-RS	BR-6800	BR-6810-F
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Type		SLR EV Dual Pivot	Direct mount type	Direct mount type	Direct mount type	SLR EV Dual Pivot	Direct mount type
Reach (mm)		49	49	49	49	51	51
Brake shoe	Standard	R55C4	R55C4	R55C4	R55C4	R55C4	R55C4
	Optional choice	R55C4 Carbon R55C4-1 Carbon R55C3	R55C4 Carbon R55C4-1 Carbon	R55C4 Carbon R55C4-1 Carbon	R55C4 Carbon R55C4-1 Carbon	R55C4 Carbon R55C4-1 Carbon	R55C4 Carbon R55C4-1 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
Toe-in adjust		X	X	X	X	X	X
Spring tension adjusting		X	X	X	X	X	X
Maximum tire size		25C	25C	25C	25C	25C	28C
Rim width		*19-28mm	*19-28mm	*19-28mm	*19-28mm	*19-28mm	*19-28mm
Cartridge shoe holder	Material	Magnesium	Magnesium	Magnesium	Magnesium	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Material	Aluminum	-	-	-	Aluminum	-
	Finish	Anodized	-	-	-	Anodized	-
QR	Material	Aluminum	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	-	Painted	Painted	Painted
Titanium cable fixing bolt		X	X	X	X	-	-
Titanium pivot bolt		X	X (fixing bolt)	X (fixing bolt)	X (fixing bolt)	-	-
Average weight		297g/pair	153g/pcs	127g/pcs	149g/pc	335g/pair	173g/pc
Note		Maximum tire size: 25mm Rim width: 19-26mm /19-28mm(R55C4-1 Carbon)	Maximum tire size: 25mm Rim width: 19-26mm /19-28mm(R55C4-1 Carbon)	"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature." Maximum tire size: 25mm Rim width: 19-26mm /19-28mm(R55C4-1 Carbon)	Maximum tire size: 25mm Rim width: 19-26mm /19-28mm(R55C4-1 Carbon)	Maximum tire size: 25mm Rim width: 19-26mm /19-28mm(R55C4-1 Carbon)	Maximum tire size: 28mm Rim width: 19-26mm /19-28mm(R55C4-1 Carbon)

ROAD / Brake (Caliper Brake)

Series		ULTEGRA	ULTEGRA	SHIMANO	105	105	105
Model no.		BR-6810-R	BR-6810-R5	BR-R650	BR-5800	BR-5810-F	BR-5810-R
Color	1	Series color	Series color	Silver	Black	Black	Black
	2	-	-	-	Silver	-	-
Type		Direct mount type	Direct mount type	Super SLR Dual Pivot	SLR EV Dual Pivot	Direct mount type	Direct mount type
Reach (mm)		51	51	57	51	-	-
Brake shoe	Standard	R55C4	R55C4	R55C2	R55C4		
	Optional choice	R55C4 Carbon R55C4-1 Carbon	R55C4 Carbon R55C4-1 Carbon	R55C for Carbon rim R55C for Ceramic rim	R55C4 for Carbon rim, R55C4-1 for Carbon rim (wider than 25mm rim)		
Compatibility		SLR EV	SLR EV	SUPER SLR	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	-	-	-	-	-
		27.0	-	-	X	X	-
	32.0	-	-	-	X	-	
	Rear (mm)	10.5	-	-	X	X	-
Cartridge shoe holder		X	X	X	X	X	X
Tire guide bumpers		X	X	-	X	X	X
QR		-	X	X	X	X	-
Toe-in adjust		X	X	X	X	X	X
Spring tension adjusting		X	X	-	-	-	-
Maximum tire size		28C	28C	28C	28C	28C	28C
Rim width		*19-28mm	*19-28mm	19-26mm	19-28mm	19-28mm	19-28mm
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	-	-
	Finish	-	-	Anodized	Anodized	-	-
QR	Material	-	Aluminum	Zinc	Resin	Resin	-
	Finish	-	Painted	Plated	Painted	Painted	-
Titanium cable fixing bolt		-	-	-	-	-	-
Titanium pivot bolt		-	-	-	-	-	-
Average weight		167.7g/pcs	168g/pc	-	388g/pair	174g/pc	176g/pc
Note		"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature." Maximum tire size: 28mm Rim width: 19-26mm /19-28mm(R55C4-1 Carbon)	Maximum tire size: 28mm Rim width: 19-26mm /19-28mm(R55C4-1 Carbon)	Maximum tire size: 28mm	Maximum tire size: 28mm Rim width: 19-26mm /19-28mm(R55C4-1 Carbon)	Maximum tire size: 28mm Rim width: 19-26mm /19-28mm(R55C4-1 Carbon)	"Need Inline cable adjuster (SM-CB90) for cable adjusting and QR feature." Maximum tire size: 28mm Rim width: 19-26mm /19-28mm(R55C4-1 Carbon)

ROAD / Brake (Caliper Brake)

Series		105	SHIMANO	TIAGRA	SHIMANO	SORA	CLARIS
Model no.		BR-5810-RS	BR-R561	BR-4700	BR-R451	BR-3500	BR-2400
Color	1	Black	Silver	Series color	Black	Black	Series color
	2	-	Black	-	Silver	-	-
Type		Direct mount type	Super SLR Dual Pivot	Super SLR Dual Pivot	Super SLR Dual Pivot	Super SLR Dual Pivot	Super SLR Dual Pivot
Reach (mm)		-	49	51	57	49	49
Brake shoe	Standard	R55C4	R55C3	R50T5	R50T2	R50T2	R50T2
	Optional choice	R55C4 for Carbon rim, R55C4-1 for Carbon rim (wider than 25mm rim)	R55C for Ceramic rim R55C3 for Carbon rim	R50T4	-	-	R50T4
Compatibility		SLR EV	New SUPER SLR	New SUPER SLR	SUPER SLR	New SUPER SLR	New SUPER SLR
Assembly pivot nut (mm)	Front (mm)	10.5	-	X	X	X	X
		12.5	-	X	X	X	X
		18.0	-	X	X	X	X
		25.0	-	-	-	-	-
		27.0	-	X	X	X	X
	32.0	-	-	X	-	-	
	Rear (mm)	10.5	-	X	X	X	X
Cartridge shoe holder		X	X	-	-	-	-
Tire guide bumpers		X	-	-	-	-	-
QR		X	X	X	X	X	X
Toe-in adjust		X	X	X	X	X	X
Spring tension adjusting		X	-	-	-	-	-
Maximum tire size		28C	28C	28C	32C	28C	28C
Rim width		19-28mm	19-26mm	19-26mm	19-26mm	19-26mm	19-26mm
Cartridge shoe holder	Material	Aluminum	Aluminum	-	-	-	-
	Finish	Painted	Painted	-	-	-	-
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Gate	Material	-	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	Anodized	Anodized	Painted	Anodized	Anodized
QR	Material	Aluminum	Zinc	Resin	Resin	Resin	Resin
	Finish	Painted	Plated	Painted	-	-	-
Titanium cable fixing bolt		-	-	-	-	-	-
Titanium pivot bolt		-	-	-	-	-	-
Average weight		175g/pc	-	-	-	-	-
Note		Maximum tire size: 28mm Rim width: 19-26mm /19-28mm(R55C4-1 Carbon)	Maximum tire size: 28mm		QR Wider OpenMaximum tire size: 32mm	Maximum tire size: 28mm	Maximum tire size: 28mm

ROAD / Brake (Hydraulic Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-RS805	BR-RS785	BR-R785	BR-RS505
Brake type		Hydraulic Disc Brake	Hydraulic Disc Brake	Hydraulic Disc Brake	Hydraulic Disc Brake
Color	1	Series color (ULTEGRA)	Series color (ULTEGRA)	Series color (ULTEGRA)	Black
	2	-	-	-	-
	3	-	-	-	-
Brake hose (kit)		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	Banjo	Straight
Brake hose color (kit)	1	Black	Black	Black	Black
	2	-	White	White	-
ICE TECHNOLOGY pad compatible caliper		X	X	X	X
Brake Pad	Standard 1	L02A-R	J02A-Resin	F01A-Resin	L02A-R
	Standard 2	L04C-M	J04C-Metal	F03C-Metal	L04C-M
	Option 1	K02S-R	G02A-Resin	G01A-Resin	K02S-R
	Option 2	K04S-M	G03S Metal	G03S Metal	K04S-M
Recommended brake lever		ST-R785 ST-RS685	ST-RS685 ST-R785	ST-R785	ST-RS505
Recommended brake rotor		SM-RT81	SM-RT99	SM-RT98 SM-RT99	SM-RT68
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
One way bleeding		X	X	X	X
Mount type (available for IS mount with mount adapter)		Flat mount	Post-mount	Post-mount	Flat mount
Piston		2	2	2	2
Piston material		Ceramic	Ceramic	Ceramic	Ceramic
Caliper	Mono-body	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel
	Tool size	4mm	5mm	5mm	4mm
	Anti loosen method	Spring washer	Snap ring	Snap ring	Spring washer
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle
Average weight		289.5g/pair	284g/pair	271g	289.5g/pair
Note					

ROAD / Brake (Mechanical Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		BR-CX77	BR-R517	BR-R317
Brake type		Mechanical Disc Brake	Mechanical Disc Brake	Mechanical Disc Brake
Color	1	Glossy Gray	Black	Silver
	2	-	Silver	Black
Compatibility		New SUPER SLR	New SUPER SLR	New SUPER SLR
Cable		SLR Brake	SLR Brake	SLR Brake
Brake pad	Standard 1	G01A Resin	G01S Resin	G01S Resin
	Option 1	G03Ti	-	-
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-3500/2400
Recommended brake rotor		SM-RT81/86	SM-RT64/RT66	SM-RT54 (Center Lock) SM-RT56 (6 Bolt)
Mount type (available for IS mount with mount adapter)		Post-mount	Post-mount	Post-mount
Piston		1	1	1
Piston material		-	-	-
Caliper	Mono-body	-	-	-
	Material	Aluminum	Aluminum	Aluminum
	Finish	Clear Painted	Clear Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel
	Tool size	5mm	5mm	5mm
	Anti loosen method	Snap ring	Snap ring	Snap ring
Pad mount		Pad axle	Pad axle	Pad axle
Average weight		159g	-	-
Note		Cyclecross usage	SHIMANO logo	SHIMANO logo

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ROAD / 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	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

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ROAD / Brake (Canti Lever Brake)

Series		SHIMANO	SHIMANO
Model no.		BR-CX70	BR-CX50
Color	1	Series color (ULTEGRA)	Silver
	2	-	-
Brake type		Canti lever	Canti lever
Reach		-	-
Brake shoe	Standard	R55C+1	R50T2
	Optional choice	R55C3 R55C4 Carbon	-
Compatibility		New SUPER SLR	New SUPER SLR
Assembly pivot nut (mm)		-	-
Cartridge shoe holder		X	-
Tire guide bumpers		X	-
QR		-	-
Toe-in adjust		X	X
Spring tension adjusting		X	X
Cartridge shoe holder	Material	Aluminum	-
	Finish	Painted	-
Canti lever	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Average weight		165g	175g
Note		Cyclecross usage	Cyclecross usage

ARCHIVE

ROAD / 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	-
Average weight		-	-	-
Note				

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ROAD / Rear Derailleur

Series		DURA-ACE	ULTEGRA	ULTEGRA	105	105	105
Model no.		RD-9000-SS	RD-6800-SS	RD-6800-GS	RD-5800	RD-5800	RD-5701-SS
Pulley cage		SS	SS	GS	SS	GS	SS
Color	1	Series color	Series color	Series color	Black	Black	Black
	2	-	-	-	Silver	Silver	Silver
Rear speeds		11	11	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-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG 10-speed
Direct attachment (Conventional)		X	X	X	X	X	X
Riveted adapter	Road type	-	-	-	-	-	-
	BMX-Track type	-	-	-	-	-	-
Cable adjuster		X	X	X	X	X	X
Max. front difference		16T	16T	16T	16T	16T	16T
Total capacity		33T	33T	37T	33T	37T	34T
Low sprocket	Max.	28T	28T	32T	28T	32T	30T
	Min.	23T	23T	28T	23T	28T	25T
Top sprocket	Max.	14T	14T	12T	14T	12T	14T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		4	4	4	2	2	2
Pulley	G pulley bearing	X	X	X	-	-	-
	T pulley bearing	X	X	X	-	-	-
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Sunken type pulley bolt		X	X	X	X	X	X
B-axle	Hollow axle	X	X	X	-	-	-
	Material	Aluminum	Stainless steel	Stainless steel	Steel	Steel	Steel
	Finish	-	-	-	Plated	Plated	Plated
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted	Painted	Painted
P-axle	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Plate body	Material	CFRP	CFRP	CFRP	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Painted	Painted	Painted	Painted	Plated
Outer plate	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Coated	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Coated	Painted	Painted	Painted	Painted	Painted
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	Plated	Plated	-
Stroke adjusting screw	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Anodized	Plated	Plated	Plated	Plated	Plated
Average weight		158g	195g	207g	234g	250g	230g
Note							

ROAD / Rear Derailleur

Series		105	105	TIAGRA	TIAGRA	TIAGRA	TIAGRA
Model no.		RD-5701-GS	RD-5701-GS	RD-4700-SS	RD-4700-GS	RD-4700-GS	RD-4601-SS
Pulley cage		GS(Front double)	GS(Front triple)	SS	GS(Front double)	GS(Front triple)	SS
Color	1	Black	Black	Series color	Series color	Series color	Series color
	2	Silver	Silver	-	-	-	-
Rear speeds		10	10	10	10	10	10
Compatible chain		HG 10-speed	HG 10-speed	HG-X Chain	HG-X Chain	HG-X Chain	HG 10-speed
Direct attachment (Conventional)		X	X	X	X	X	X
Riveted adapter	Road type	-	-	-	-	-	-
	BMX-Track type	-	-	-	-	-	-
Cable adjuster		X	X	X	X	X	X
Max. front difference		16T	22T	16T	16T	20T	16T
Total capacity		37T	40T	33T	39T	41T	34T
Low sprocket	Max.	32T	30T	28T	34T	32T	30T
	Min.	27T	25T	25T	28T	25T	25T
Top sprocket	Max.	12T	14T	14T	12T	12T	14T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		2	2	2	2	2	2
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Sunken type pulley bolt		X	X	X	X	X	X
B-axle	Hollow axle	-	-	-	-	-	-
	Material	Steel	Steel	Stainless steel	Stainless steel	Stainless steel	Steel
	Finish	Plated	Plated	-	-	-	Plated
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	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Plated	Plated	Plated	Painted
Inner plate	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Plated	Plated	Plated	Plated
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average weight		243g	243g	-	-	-	-
Note							

ROAD / Rear Derailleur

Series		TIAGRA	TIAGRA	SORA	SORA	SHIMANO	SHIMANO
Model no.		RD-4601-GS	RD-4601-GS	RD-3500-SS	RD-3500-GS	RD-R350-10-SS	RD-R350-GS
Pulley cage		GS(Front double)	GS(Front triple)	SS	GS	SS	GS
Color	1	Series color	Series color	Series color	Series color	Black	Black
	2	-	-	-	-	-	-
Rear speeds		10	10	9	9	10	9
Compatible chain		HG 10-speed	HG 10-speed	HG 9-speed	HG 9-speed	HG 10-speed	HG 9-speed
Direct attachment (Conventional)		X	X	X	X	X	X
Riveted adapter	Road type	-	-	-	-	-	-
	BMX-Track type	-	-	-	-	-	-
Cable adjuster		X	X	X	X	X	X
Max. front difference		16T	22T	16T	20T	14T	20T
Total capacity		37T	40T	37T	41T	37T	41T
Low sprocket	Max.	32T	30T	32T	32T	34T	32T
	Min.	27T	25T	25T	25T	30T	25T
Top sprocket	Max.	12T	14T	14T	14T	12T	14T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		2	2	2	2	2	2
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
	Sunken type pulley bolt	X	X	X	X	X	X
B-axle	Hollow axle	-	-	-	-	-	-
	Material	Steel	Steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Plated	Plated	-	-	-	-
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	Resin	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	Painted	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	Painted	Painted	Painted	Painted
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	Nickel Plated	Nickel Plated	Nickel Plated	Nickel Plated
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight		-	-	-	-	-	-
Note						SHIMANO logo	SHIMANO logo

ROAD / Rear Derailleur

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

ROAD / Front Derailleur

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		FD-9000-B	FD-9000-F	FD-6800-B	FD-6800-F	FD-6700-B	FD-6700-F
Color	1	Series color	Series color	Series color	Series color	Silver	Silver
	2	-	-	-	-	Glossy Gray	Glossy Gray
Speeds	Front	2	2	2	2	2	2
	Rear	11	11	11	11	10	10
Compatible chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG 10-speed	HG 10-speed
Action	Top Swing	-	-	-	-	-	-
	Down Swing	X	X	X	X	X	X
Mount	Clamp Band (mm)	28.6	X (w/AdapterS)	-	X (w/AdapterS)	-	X (w/AdapterS)
		31.8	X	-	X	-	X
		34.9	X	-	X	-	X
	Brazed-On	-	X	-	X	-	X
Top-Pull exclusive option		-	-	-	-	-	-
Chain line (mm)		43.5	43.5	43.5	43.5	43.5	43.5
Chain stay angle		61-66	61-66	61-66	61-66	61-66	61-66
Top gear teeth		50-55T	50-55T	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	7	7	7	7
Front clamp band	Material	Aluminum	-	Aluminum	-	Aluminum	-
	Finish	Anodized	-	Painted	-	Painted	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Chain guide	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Nickel Plated	Nickel 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	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Anodized	-	-	-	-
Average weight (Band type: L size, Direct type: w/o bolt)		78g	66g	104g	89g	104g	89g
Note							

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ROAD / Front Derailleur

Series		ULTEGRA	ULTEGRA	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FD-6703-B	FD-6703-F	FD-CX70-B-T	FD-CX70-B-D	FD-CX70-F-T	FD-CX70-F-D
Color	1	Silver	Silver	Gray	Gray	Gray	Gray
	2	Glossy Gray	Glossy Gray	-	-	-	-
Speeds	Front	3	3	2	2	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)	X (w/AdapterS)	-
		31.8	X	-	X	X	-
		34.9	X	-	X	X	-
	Brazed-On	-	X	-	-	X	X
Top-Pull exclusive option		-	-	X	-	X	-
Chain line (mm)		45	45	43.5	43.5	43.5	43.5
Chain stay angle		63-66	63-66	63-66	63-66	63-66	63-66
Top gear teeth		52T	52T	46-52T	46-52T	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	Aluminum	-	-
	Finish	Painted	-	Painted	Painted	-	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Average weight (Band type: L size, Direct type: w/o bolt)		131g	114g	108g	103g	92g	87g
Note							

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ROAD / Front Derailleur

Series		105	105	105	105	105	105
Model no.		FD-5800-B	FD-5800-F	FD-5700-B	FD-5700-F	FD-5703-B	FD-5703-F
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
Speeds	Front	2	2	2	2	3	3
	Rear	11	11	10	10	10	10
Compatible chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed
Action	Top Swing	-	-	-	-	-	-
	Down Swing	X	X	X	X	X	X
Mount	Clamp Band (mm)	28.6	X*	-	X (w/Adapter5)	-	X (w/Adapter5)
		31.8	X	-	X	-	X
		34.9	X	-	X	-	X
	Brazed-On	-	X	-	X	-	X
Top-Pull exclusive option		-	-	-	-	-	-
Chain line (mm)		43.5	43.5	43.5	43.5	45	45
Chain stay angle		61-66	61-66	61-66	61-66	63-66	63-66
Top gear teeth		46-53T	46-53T	50-56T	50-56T	50T	50T
Total capacity		16T	16T	16T	16T	20T	20T
Applicable Top-Mid tooth difference		-	-	-	-	11T	11T
Angled clamp band design		-	-	-	-	-	-
Link bushings		8	8	-	-	-	-
Front clamp band	Material	Aluminum	-	Aluminum	-	Aluminum	-
	Finish	Painted	-	Painted	-	Painted	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome Plated		Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
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/o bolt)		104g	89g	105g	89g	132g	114g
Note		* w/Adapter					

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ROAD / Front Derailleur

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

ROAD / Front Derailleur

Series		TIAGRA	TIAGRA	SHIMANO	SORA	SORA	SORA
Model no.		FD-4603-B	FD-4603-F	FD-R460-B	FD-3500-B	FD-3500-F	FD-3503-B
Color	1	Series color	Series color	Black	Series color	Series color	Series color
	2	-	-	-	-	-	-
Speeds	Front	3	3	2	2	2	3
	Rear	10	10	10	9	9	9
Compatible chain		HG 10-speed	HG 10-speed	HG 10-speed	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 (w/AdapterS)	-	X (w/AdapterS)	-	X (w/AdapterS)
		31.8	X	-	X	-	X
		34.9	X	-	X	-	X
	Brazed-On	-	X	-	-	X	-
Top-Pull exclusive option		-	-	-	-	-	-
Chain line (mm)		45	45	43.5	43.5	43.5	45
Chain stay angle		63-66	63-66	63-66	61-66	61-66	63-66
Top gear teeth		50T	50T	46-50T	46-52T	46-52T	50T
Total capacity		20T	20T	16T	16T	16T	16T
Applicable Top-Mid tooth difference		11T	11T	-	-	-	11T
Angled clamp band design		-	-	-	-	-	-
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	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel
	Finish	-	-	-	Ni Plated	Ni Plated	Ni Plated
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel
	Finish	-	-	-	Zinc plated	Zinc plated	Zinc plated
Average weight (Band type: L size, Direct type: w/o bolt)		-	-	-	-	-	-
Note				SHIMANO logo			

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ROAD / Front Derailleur

Series		SORA	SHIMANO	CLARIS	CLARIS	CLARIS	CLARIS
Model no.		FD-3503-F	FD-R353-B	FD-2400-B	FD-2400-F	FD-2403-B	FD-2403-F
Color	1	Series color	Black	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Speeds	Front	3	3	2	2	3	3
	Rear	9	9	8	8	8	8
Compatible chain		HG 9-speed	HG 9-speed	HG 8-speed	HG 8-speed	HG 8-speed	HG 8-speed
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)
		31.8	-	-	X	-	X
		34.9	-	X	X	-	X
	Brazed-On	X	-	-	X	-	X
Top-Pull exclusive option		-	-	-	-	-	-
Chain line (mm)		45	45	43.5	43.5	45	45
Chain stay angle		63-66	63-66	61-66	61-66	63-66	63-66
Top gear teeth		50T	50T	46-52T	46-52T	50T	50T
Total capacity		20T	20T	16T	16T	20T	20T
Applicable Top-Mid tooth difference		11T	11T	-	-	11T	11T
Angled clamp band design		-	-	X	X	X	X
Link bushings		-	-	-	-	-	-
Front clamp band	Material	-	Aluminum	Steel	Aluminum	Steel	Aluminum
	Finish	-	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	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
Cable fixing bolt	Material	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/o bolt)		-	-	-	-	-	-
Note			SHIMANO logo				

ROAD / Front Derailleur

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

ROAD / Crankset

Series		DURA-ACE	ULTEGRA	ULTEGRA	105	SHIMANO	DURA-ACE
Model no.		FC-9000	FC-6800	FC-6800	FC-5800	FC-RS500	FC-7710
Color	1	Series color	Series color	Series color	Black	Black	Series color
	2	-	-	-	Silver	Silver	-
Rear speeds		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	1/2"X1/8" / 1/2"X3/32"
Chain line (mm)		43.5	43.5	43.5	43.5	43.5	42.5
P.C.D. left / right (mm)		110	110	110	110	110	144
Gear arms (pcs)		4	4	4	4	5	5
Arm adapter		-	-	-	-	-	-
Chain ring combination		55-42T 54-42T 53-39T 52-38T 52-36T 50-34T	50-34T 53-39T	46-36T	53-39T 52-36T 50-34T	52-36T 50-34T 46-36T	45T>>55T (1/2"X1/8" / 1/2"X3/32")
Q-factor		146	146.6	146.6	146	150.3	136.3
Crank arm length (mm)	165.0	X	X	X	X	X	X
	167.5	X	-	-	-	-	X
	170.0	X	X	X	X	X	X
	172.5	X	X	X	X	X	X
	175.0	X	X	X	X	X	X
	177.5	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
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-BB9000	SM-BBR60	SM-BBR60	SM-BBR60	BB-RS500	BB-7710 / 7700
	Pressfit	SM-BB92-41B	SM-BB72-41B	SM-BB72-41B	SM-BB72-41B	SM-BB72-41B	-
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/CFRP or GFRP	Aluminum/CFRP	Aluminum	Aluminum/GFRP	Aluminum	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	Stainless steel	Stainless steel	Stainless steel
	Finish	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)		638.2g (55-42T) 631.3g (54-42T) 617.4g (53-39T) 621.1g (52-38T) 618.0g (52-36T) 609.7g (50-34T)	687.7g (53-39T) 686.5g (52-36T) 676.2g (50-34T)	669.8g (46-36T)	740.2g (53-39T) 736.4g (52-36T) 725.0g (50-34T)	823.0g (52-36T) 797.3g (50-34T) 789.2g (46-36T)	82g (46T, 1 / 2" x 1 / 8")
Note							

ROAD / Crankset

Series		ULTEGRA	ULTEGRA	ULTEGRA	105	105	105
Model no.		FC-6700	FC-6703	FC-6750	FC-5700	FC-5750	FC-5703
Color	1	Glossy Gray	Glossy Gray	Glossy Gray	Black	Black	Black
	2	-	-	-	-	-	-
Rear speeds		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
Chain line (mm)		43.5	45	43.5	43.5	43.5	45
P.C.D. left / right (mm)		130	130 / 92	110	130	110	130 / 74
Gear arms (pcs)		5	5	5	5	5	5
Arm adapter		-	-	-	-	-	-
Chain ring combination		53-39T 52-39T	52-39-30T	50-34T	53-39T 52-39T	50-34T	50-39-30T
Q-factor		146	154.8	146	146	146	154.76
Crank arm length (mm)	165.0	X	X	X	X	X	X
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	X	X	X	X	X	X
	175.0	X	X	X	X	X	X
	180.0	-	-	-	-	-	-
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	-	-	-
Compatible BB type	Outboard	X	X	X	X	X	X
	Octalink	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended BB	Threaded (normal)	SM-BB6700	SM-BB6700	SM-BB6700	SM-BB5700	SM-BB5700	SM-BB5700
	Pressfit	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B	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	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	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	-	Aluminum	-	-	-	Aluminum
	Finish	-	Anodized	-	-	-	Anodized
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	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Anodized	Anodized	-	-	-
Inner ring fixing bolt	Material	-	Aluminum	-	-	-	Stainless steel
	Finish	-	Anodized	-	-	-	-
crank fixing bolt included		X	X	X	X	X	X
Average weight (170mm, w/o BB)		700.9g (53-39T) 696.9g (52-39T)	802.9g	698.2g	756g (53-39T) 750g (52-39T)	716g	831g
Note							

ROAD / Crankset

Series		SHIMANO	SHIMANO	TIAGRA	TIAGRA	SHIMANO	SHIMANO
Model no.		FC-R563	FC-CX50	FC-4700	FC-4703	FC-R460	FC-R453
Color	1	Silver	Silver	Series color	Series color	Black	Black
	2	Black	Black	-	-	-	-
Rear speeds		10	10	10	10	10	9
Compatible chain		HG 10-speed	HG 10-speed	Super Narrow HG 10-speed	Super Narrow HG 10-speed	HG-X 10-speed	HG 9-speed
Chain line (mm)		45	43.5	43.5	45	43.5	45
P.C.D. left / right (mm)		130 / 92	110	110	110/74	110	130 / 74
Gear arms (pcs)		5	5	4	4	5	5
Arm adapter		-	-	integrate	integrate	-	-
Chain ring combination		50-39-30T	46-36T	52-36T 50-34T	50-39-30T	48-34T 46-34T	50-39-30T
Q-factor		158.8	150	150	158.8	149.9	157.8
Crank arm length (mm)	165.0	X	-	X	X	X	X
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	X	X	X	X	-	-
	175.0	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		-	-	-	-	-	-
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	BB-RS500	BB-RS500	BB-RS500	BB-RS500	BBES300
	Pressfit	SM-BB71-41B	SM-BB71-41B	BB-RS500-PB	BB-RS500-PB	SM-BB71-41B	-
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	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	-
	Finish	Plated	Plated	Plated	Plated	Plated	-
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum/GFRP	Aluminum/GFRP	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	Aluminum	-	-	Aluminum	-	Steel
	Finish	Anodized	-	-	Anodized	-	Painted
Inner ring	Material	Aluminum	Aluminum	Aluminum	Steel	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Plated	Anodized	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
	Finish	-	-	-	-	-	-
crank fixing bolt included		X	X	X	X	X	X
Average weight (170mm, w/o BB)		-	797.8g	-	-	-	-
Note						SHIMANO logo	SHIMANO logo

ROAD / 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
Arm adapter		-	-	-	-	-	-
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)	165.0	X	X	X	-	X	X
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Optional chain guard	With 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-R5500	BB-R5500	BB-R5500	BBE5300	BBE5300	BBE5300
	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							

ROAD / 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
Arm adapter		integrate	X	-
Chain ring combination		50-34T	50-34T	50-39-30T
Q-factor		153.7	169	171.5
Crank arm length (mm)	165.0	X	X	X
	167.5	-	-	-
	170.0	X	X	X
	172.5	-	-	-
	175.0	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				

ROAD / Bottom Bracket (HOLLOWTECH II)

Series		DURA-ACE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-BB9000	SM-BB92-41B	SM-BB72-41B	SM-BBR60	BB-RS500	BB-RS500-PB
HOLLOWTECH II BB	Threaded BB type	X	-	-	X	X	-
	Press-Fit type	-	X	X	-	-	X
Threaded BB shell width (mm)	68	X	-	-	X	X	-
	70	X	-	-	X	X	-
Press-Fit BB shell width (mm)	86	-	X	X	-	-	X
Small ball bearing		X	X	X	X	-	-
Adapter	Material	Aluminum	Resin	Resin	Aluminum	Aluminum	Resin
	Finish	Anodized	-	-	Anodized	Anodized	-
Average weight		65g	54g	63g	77g	70.4g	70.4g
Note							

ARCHIVE

ROAD / Bottom Bracket

Series		DURA-ACE	DURA-ACE	105	105	TIAGRA	TIAGRA
Model no.		BB-7700	BB-7710	SM-BB5500	SM-BB5500	BB-E551	BB-E551
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	X	-	-
		70 (M36)	X	-	X	-	-
	MM110.0	68 (BC1.37)	-	-	-	-	-
		70 (M36)	-	-	-	-	-
	LL113.0	68 (BC1.37)	-	-	-	-	-
		70 (M36)	-	-	-	-	-
	113.0	68 (BC1.37)	-	-	-	-	X
		70 (M36)	-	-	-	-	X
	118.5	68 (BC1.37)	-	-	-	X	-
		70 (M36)	-	-	-	X	-
	121.0	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

ARCHIVE

ROAD / 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
	113.0	68 (BC1.37)	-	-
		70 (M36)	-	-
	118.5	68 (BC1.37)	-	-
		70 (M36)	-	-
	121.0	68 (BC1.37)	-	-
	Spindle	Material	Steel	Steel
Finish		Plated	Plated	
Left hand adapter	Material	Resin	Resin	
	Finish	-	-	
Average weight		-	-	
Note		For Double	For Triple	

ARCHIVE

ROAD / Cassette Sprocket

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	
Model no.	CS-9000	CS-9000	CS-9000	CS-9000	CS-9000	CS-6800	
Type	HG-EV	HG-EV	HG-EV	HG-EV	HG-EV	HG-EV	
Speeds	11	11	11	11	11	11	
Combination *Titanium gear	11th	23*	25*	28*	25*	28*	23
	10th	21*	23*	25*	23*	25*	21
	9th	19*	21*	23*	21*	23*	19
	8th	18*	19*	21*	19*	21*	18
	7th	17*	17*	19*	18*	19*	17
	6th	16	16	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	
Group	11-23T	11-25T	11-28T	12-25T	12-28T	11-23T	
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	
Carbon Spider arm	QTY (pcs)	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	
Lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Average weight	165g	175g	193g	189g	205g	212g	
Note							

ARCHIVE

ROAD / Cassette Sprocket

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	11	11	11	11	11
Combination *Titanium gear	11th	25	28	32	25	28
	10th	23	25	28	23	25
	9th	21	23	25	21	23
	8th	19	21	22	19	21
	7th	17	19	20	18	20
	6th	16	17	18	17	19
	5th	15	15	16	16	18
	4th	14	14	14	15	17
	3rd	13	13	13	14	16
	2nd	12	12	12	13	15
1st	11	11	11	12	14	
Group	11-25T	11-28T	11-32T	12-25T	14-28T(NEW)	11-28T
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
Carbon Spider arm	QTY (pcs)	1	1	1	1	-
	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	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Nickel plated
Average weight	-	-	-	-	-	284g
Note						

ARCHIVE

ROAD / 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	11	10	10	10	10
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	
Group	11-32T	12-25T	-	-	-	-
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
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						

ARCHIVE

ROAD / Cassette Sprocket

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	10	10	10	10	10
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	
Group	-	-	-	-	-	-
Compatible chain	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed
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						

ARCHIVE

ROAD / 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	10	10	10	10	10	
Combination *Titanium gear	11th	-	-	-	-	-	
	10th	30	25	28	25	27	25
	9th	27	23	24	23	24	23
	8th	24	21	21	21	21	21
	7th	21	19	19	19	19	19
	6th	19	17	17	17	17	17
	5th	17	15	15	16	16	15
	4th	15	14	14	15	15	14
	3rd	14	13	13	14	14	13
	2nd	13	12	12	13	13	12
1st	12	11	11	12	12	11	
Group	-	-	-	-	-	11-25T	
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	
Carbon Spider arm	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							

ARCHIVED

ROAD / Cassette Sprocket

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	10	10	9	9	9	
Combination *Titanium gear	11th	-	-	-	-	-	
	10th	28	32	34	-	-	
	9th	25	28	30	25	30	32
	8th	23	25	26	23	26	28
	7th	21	22	23	21	23	24
	6th	19	20	21	19	20	21
	5th	17	18	19	17	18	18
	4th	15	16	17	15	16	16
	3rd	14	14	15	13	14	14
	2nd	13	12	13	12	12	12
1st	12	11	11	11	11	11	
Group	12-28T	11-32T	11-34T	-	bQ	ar	
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	
Carbon Spider arm	QTY (pcs)	-	-	-	-	-	
	Finish	-	-	-	-	-	
Aluminum Spider arm	QTY (pcs)	-	-	-	-	-	
	Finish	-	-	-	-	-	
Titanium gear	Finish	-	-	-	-	-	
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Lock ring	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Average weight	-	-	-	-	-	-	
Note							

ARCHIVE

ROAD / Cassette Sprocket

Series	SORA	SORA	SORA	SORA	SORA	CLARIS
Model no.	CS-HG50-9	CS-HG50-9	CS-HG50-9	CS-HG50-9	CS-HG50-9	CS-HG50-8
Type	HG	HG	HG	HG	HG	HG
Speeds	9	9	9	9	9	8
Combination *Titanium gear	11th	-	-	-	-	-
	10th	-	-	-	-	-
	9th	23	25	27	25	25
	8th	21	23	24	23	23
	7th	19	21	21	21	21
	6th	17	19	19	19	19
	5th	16	17	17	17	18
	4th	15	15	15	16	17
	3rd	14	14	14	15	16
2nd	13	13	13	14	15	
1st	12	12	12	13	14	
Group	-	-	-	-	-	bf
Compatible chain	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	CN-HG71
Carbon Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Aluminum Spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Titanium gear	Finish	-	-	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Average weight	-	-	-	-	-	-
Note						

ARCHIVE

ROAD / Cassette Sprocket

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

ARCHIVE

ROAD / Cassette Sprocket

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

ARCHIVE

ROAD / Freehub

Series		SHIMANO	DURA-ACE	ULTEGRA	105	SHIMANO	SHIMANO	
Model no.		FH-CX75	FH-9000	FH-6800	FH-5800	FH-R5505	FH-R5400	
Color	1	Series color	Series color	Series color	Black	Black	Black	
	2	-	-	-	Silver	-	Silver	
Brake Type		Disc	Rim	Rim	Rim	Disc	Rim	
Rear speeds		11/10*	11/10*	11/10*	11/10*	11 / 10	10 / 11	
O.L.D. (mm)		135	130	130	130	135	130	
Spoke hole	24H	-	X	-	-	-	-	
	28H	X	X	-	-	X	X	
	32H	-	X	X	X	X	X	
	36H	-	X	X	X	X	X	
Fixing method		QR	QR	QR	QR	QR	QR	
Axle	QR skewer length (mm)	161	-	-	-	-	-	
		163	-	X	X	X	X	
		166	-	-	-	-	-	-
		168	X	X	X	X	X	X
		170	-	-	-	-	-	-
	173	X	-	-	-	X	-	
	Length (mm)	146	141	141	141	146	141	
Diameter (mm)		14	14	14	14	10	10	
Thru Axle Length x Inner Diameter (mm)	135x10	-	-	-	-	-	-	
	135x12	-	-	-	-	-	-	
	142x12	-	-	-	-	-	-	
	150x12	-	-	-	-	-	-	
Flange distance (mm)		55.65	56.9 **	56.9	56.9	55.65	56.9	
Offset (mm)		7.5	9.75 **	9.7	9.75	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	
	Freehub 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	Polish	CBN	Polish	Polish	Polish	Polish	
	Cone	CBN	CBN	CBN	CBN	CBN	CBN	
Disc mount	Center lock	X	-	-	-	X	-	
	Outer serration rotor lock ring	-	-	-	-	-	-	
	Center lock mount cover option	X	-	-	-	-	-	
Freehub body	6-bolt	-	-	-	-	-	-	
	Material	Steel	Titanium	Steel	Steel	Steel	Steel	
Hub shell	Finish	-	-	-	-	-	-	
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
Axle	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel	
QR lever	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted	
	Color	Gray	9000SLV	Black	Black	Black	Black	
QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted	
QR nut	Material	Resin	Aluminum	Resin	Resin	Resin	Resin	
	Finish	Black	Anodized	Black	Black	Black	Black	
Radial Lacing		-	-	-	-	-	-	
Average weight (w/o axle and locking)		325g	247g	330g	368g	385g	-	
Note		* 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. ** 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.	

ROAD / Freehub

Series		SORA	CLARIS	TOURNEY A070	
Model no.		FH-3500	FH-2400	FH-RM30-7-QR	
Color	1	Black	Series color	Silver	
	2	-	Black	-	
Brake Type		Rim	Rim	Rim	
Rear speeds		8/9/10	8/9-speed	7	
O.L.D. (mm)		130	130	130	
Spoke hole	24H	-	-	-	
	28H	-	-	-	
	32H	X	X	X	
	36H	X	X	-	
Fixing method		QR	QR	QR	
Axle	QR skewer length (mm)	161	-	X	
		163	X	X	
		166	-	-	
		168	X	X	
		170	-	-	
		173	-	-	
	Length (mm)		141	141	141
	Diameter (mm)		10	10	10
	Thru Axle Length x Inner Diameter (mm)	135x10	-	-	-
		135x12	-	-	-
142x12		-	-	-	
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	-	
	Freehub body	Contact	Contact	-	
Internal grease sleeve		X	X	-	
Digital adjustment system		-	-	-	
Bearing	Stainless ball	-	-	-	
	Cup	-	-	-	
	Cone	-	-	-	
Disc mount	Center lock	-	-	-	
	Outer serration rotor lock ring	-	-	-	
	Center lock mount cover option	-	-	-	
	6-bolt	-	-	-	
Freehub 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	Anodized	Painted	Plated	
	Color	Black	Black	Black	
QR housing	Material	Aluminum	Steel	Steel	
	Finish	Painted	Painted	Painted	
QR nut	Material	Resin	Resin	Resin	
	Finish	Black	Black	Black	
Radial Lacing		-	-	-	
Average weight (w/o axle and lockring)		-	-	-	
Note		QR Lever Housing Aluminum	QR Lever Housing Steel		

ROAD / Front Hub

Series		SHIMANO	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	105	
Model no.		HB-CX75	HB-9000	HB-7710	HB-7600	HB-6800	HB-5800	
Color	1	Series color	Series color	Silver	Silver	Series color	Black	
	2	-	-	-	-	-	Silver	
Brake Type		Disc	Rim	Rim	Rim	Rim	Rim	
O.L.D. (mm)		100	100	100 (Front) 120 (Rear)	100 (Front) 120 (Rear)	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	QR	NUT	NUT	QR	
	QR skewer length (mm)	129	-	-	-	-	-	
		133	X	X	-	-	X	
	Length (mm)		108	108	142 (M9) (Front) 164 (M10) (Rear)	142 (M9) (Front) 164 (M10) (Rear)	108	108
	Diameter (mm)		14	14.8	9(Front) 10(Rear)	9(Front) 10(Rear)	14	9
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-	-
100x15		-	-	-	-	-	-	
110x20		-	-	-	-	-	-	
Flange distance (mm)		59.6	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	
Offset (mm)		6	0	0(Front)/2.75 (Single Thread, Rear)/ 0 (Double Thread, Rear)	0(Front)/5.25(Rear)	0	0	
P.C.D. Left/Right (mm)		44(left) / 44(right)	38	38 (Front) 44 (Rear)	67	40	38	
Flange diameter (mm)		52.8(left) / 52.8(right)	48.4	46 (Front) 52 (Rear)	75	50.4	48.4	
Seal		Labyrinth and Contact	Labyrinth and Contact	Dust Cap	Dust Cap	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	Polish	Super Finishing **	Polish	CBN/Polish	Polish	Polish	
	Cone	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	
Disc mount	Center lock	X	-	-	-	-	-	
	Outer 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	Aluminum	Steel	Steel	Aluminum	Steel	
	Finish	Anodized	Anodized	Plating	Plating	Anodized	w/Plated Nut	
QR lever	Material	Aluminum	Aluminum	-	-	Aluminum	Aluminum	
	Finish	Anodized	Anodized	-	-	Anodized	Anodized	
	Color	Gray	Silver	-	-	Gray	Black	
QR housing	Material	Aluminum	Anodized	-	-	Aluminum	Aluminum	
	Finish	Anodized	Silver	-	-	Anodized	Anodized	
QR nut	Material	Resin	Anodized	-	-	Resin	Resin	
	Finish	Black	Silver	-	-	Black	Black	
Radial lacing		-	X	-	-	X	X	
Average weight (w/o axle and lockring)		166g	120g	298g (rear w / lock ring) 203g (front)	313g (rear LF w / lock ring) 241g (front LF)	158g	155g	
Note		For Disc brake/ Center lock mount 140mm Disc Rotor Compatible	* Aero spoke hole available(18H/24H) **Super Finishing	For Track *Dishing Distance R(Single Thread):2.75mm (Double Thread):0				

ROAD / Front Hub

Series		SHIMANO	SHIMANO	SORA	CLARIS	TOURNEY A070	
Model no.		HB-RS505	HB-RS400	HB-3500	HB-2400	HB-RM40	
Color	1	Black	Black	Black	Series color	Black	
	2	-	Silver	-	Black	Silver	
Brake Type		Disc	Rim	Rim	Rim	Rim	
O.L.D. (mm)		100	100	100	100	100	
Spoke hole	24H	-	-	-	-	-	
	28H	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	-	-	-	-	-
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	Labyrinth and Contact	Labyrinth and Contact	-	
Internal grease sleeve		X	X	-	-	-	
Digital adjustment system		-	-	-	-	-	
Bearing	Stainless ball		-	-	-	-	
	Cup		Polish	Polish	Polish	Polish	
	Cone		CBN	CBN	-	-	
Disc mount	Center lock		X	-	-	-	
	Outer serration rotor lock ring		-	-	-	-	
	Center lock mount cover option		-	-	-	-	
	6-bolt		-	-	-	-	
140 mm Disc rotor compatible		X	-	-	-		
Hub shell	Material		Aluminum	Aluminum	Aluminum	Aluminum	
	Finish		Anodized	Anodized	Anodized	Anodized	
Axle	Material		Steel	Steel	Steel	Steel	
	Finish		-	-	-	-	
QR lever	Material		Aluminum	Aluminum	Aluminum	Steel	
	Finish		Painted	Painted	Anodized	Painted	
	Color		Black	Black	Black	Black	
QR housing	Material		Aluminum	Aluminum	Aluminum	Steel	
	Finish		Painted	Painted	Anodized	Plated	
QR nut	Material		Resin	Resin	Resin	Resin	
	Finish		Black	Black	Black	Black	
Radial lacing		-	X	X	X	-	
Average weight (w/o axle and lockring)		185g	-	-	-	-	
Note				QR Lever Housing Aluminum	QR Lever Housing Steel		

ROAD / Wheel

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	
Model no.		WH-9000-C24-CL-F	WH-9000-C24-CL-R	WH-9000-C24-TL-F	WH-9000-C24-TL-R	WH-9000-C24-TU-F	WH-9000-C24-TU-R	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
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	700C	700C	
Rim	Height (mm)	21	23	21	23	24	24	
	Width (mm)	20.8	20.8	20.8	20.8	20.8	20.8	
	Rim joint	Welded	Welded	Welded	Welded	-	-	
	Brazed reinforcement	-	-	-	-	-	-	
Spokes	Number	16	20	16	20	16	21	
	Bladed	X	X	X	X	X	X	
	Butted	X	X	X	X	X	X	
Fixing method		QR	QR	QR	QR	QR	QR	
Axle	QR skewer length (mm)	129	-	-	-	-	-	
		133	X	-	X	-	X	
		161	-	-	-	-	-	
		163	-	X	-	X	-	X
		166	-	-	-	-	-	
		168	-	X	-	X	-	X
		170	-	-	-	-	-	
		173	-	-	-	-	-	
	Length (mm)		108	141	108	141	108	141
	Diameter (mm)		15	14	15	14	15	14
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-	-
		100x15	-	-	-	-	-	-
110x20		-	-	-	-	-	-	
135x10		-	-	-	-	-	-	
135x12		-	-	-	-	-	-	
150x12		-	-	-	-	-	-	
Bearing	Stainless ball	X	X	X	X	X	X	
	Cup	Super Finishing	Super Finishing	Super Finishing	Super Finishing	Super Finishing	Super Finishing	
	Cone	CBN/Polish	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	
D2 rim		-	-	-	-	-	-	
Offset rim		-	X	-	X	-	X	
Digital adjustment system		X	X	X	X	X	X	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact	
	Freehub body	-	Contact	-	Contact	-	Contact	
Internal grease sleeve		X	X	X	X	X	X	
Requires rim tape		X	X	-	-	-	-	
Tire	Type	Clincher	Clincher	Tubeless	Tubeless	Tubular	Tubular	
	Recommended size	23-622 - 28-622	23-622 - 28-622	23-622 - 28-622	23-622 - 28-622	20-28" - 25-28"	20-28" - 25-28"	
Rim	Material	CFRP / Aluminum	CFRP / Aluminum	CFRP / Aluminum	CFRP / Aluminum	CFRP	CFRP	
	Finish	-	-	-	-	CFRP	CFRP	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Color	Black	Black	Black	Black	Black	Black	
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Color	Black	Black	Black	Black	Black	Black	
Freehub body	Material	-	Titanium	-	Titanium	-	Titanium	
	Finish	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
QR nut	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Color	Series color	Series color	Series color	Series color	Series color	Series color	
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)		578g	809g	634g	835g	500g	668g	
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	

ROAD / Wheel

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	
Model no.		WH-9000-C35-CL-F	WH-9000-C35-CL-R	WH-9000-C35-TU-F	WH-9000-C35-TU-R	WH-9000-C50-CL-F	WH-9000-C50-CL-R	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
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	700C	700C	622x17C	622x17C	
Rim	Height (mm)	35	35	35	35	50	50	
	Width (mm)	20.8	20.8	20.8	20.8	22.4	22.4	
	Rim joint	Welded	Welded	-	-	Sleeved	Sleeved	
	Brazed reinforcement	-	-	-	-	-	-	
Spokes	Number	16	21	16	21	16	21	
	Bladed	X	X	X	X	X	X	
	Butted	X	X	X	X	X	X	
Fixing method		QR	QR	QR	QR	QR	QR	
Axle	QR skewer length (mm)	129	-	-	-	-	-	
		133	X	-	X	-	X	
		161	-	-	-	-	-	
		163	-	X	-	X	-	X
		166	-	-	-	-	-	
		168	-	X	-	X	-	X
		170	-	-	-	-	-	
		173	-	-	-	-	-	
	Length (mm)		108	141	108	141	108	141
	Diameter (mm)		15	14	15	14	15	14
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-	-
		100x15	-	-	-	-	-	-
110x20		-	-	-	-	-	-	
135x10		-	-	-	-	-	-	
135x12		-	-	-	-	-	-	
150x12		-	-	-	-	-	-	
Bearing	Stainless ball	X	X	X	X	X	X	
	Cup	Super Finishing	Super Finishing	Super Finishing	Super Finishing	Super Finishing	Super Finishing	
	Cone	CBN/Polish	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		-	-	-	X	-	-	
Digital adjustment system		X	X	X	X	X	X	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact	
	Freehub body	-	Contact	-	Contact	-	Contact	
Internal grease sleeve		X	X	X	X	X	X	
Requires rim tape		X	X	-	-	X	X	
Tire	Type	Clincher	Clincher	Tubular	Tubular	Clincher **	Clincher **	
	Recommended size	23-622 - 28-622	23-622 - 28-622	20-28" - 25-28"	20-28" - 25-28"	23-622 - 28-622	23-622 - 28-622	
Rim	Material	CFRP / Aluminum	CFRP / Aluminum	CFRP	CFRP	CFRP / Aluminum	CFRP / Aluminum	
	Finish	-	-	-	-	-	-	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Color	Black	Black	Black	Black	Black	Black	
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Color	Black	Black	Black	Black	Black	Black	
Freehub body	Material	-	Titanium	-	Titanium	-	Titanium	
	Finish	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
QR nut	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Color	Series color	Series color	Series color	Series color	Series color	Series color	
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)		666g	828g	648g	722g	799g	986g	
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	

ROAD / Wheel

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	
Model no.		WH-9000-C50-TU-F	WH-9000-C50-TU-R	WH-9000-C75-TU-F	WH-9000-C75-TU-R	WH-6800-F	WH-6800-R	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
Front / Rear		Front	Rear	Front	Rear	Front	Rear	
Brake Type		Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	
Speeds		-	10*/11	-	10*/11	-	10*/11	
O.L.D. (mm)		100	130	100	130	100	130	
Wheel Size		700C	700C	700C	7000C	622x15C	622x15C	
Rim	Height (mm)	50	50	75	75	23	23	
	Width (mm)	24	24	24	24	20.8	20.8	
	Rim joint	-	-	-	-	Welded	Welded	
	Brazed reinforcement	-	-	-	-	X	X	
Spokes	Number	16	21	16	21	16	20	
	Bladed	X	X	X	X	X	X	
	Butted	X	X	X	X	X	X	
Fixing method		QR	QR	QR	QR	QR	QR	
Axle	QR skewer length (mm)	129	-	-	-	-	-	
		133	X	-	X	-	X	
		161	-	-	-	-	-	
		163	-	X	-	X	-	X
		166	-	-	-	-	-	-
		168	-	X	-	X	-	X
		170	-	-	-	-	-	-
	173	-	-	-	-	-	-	
	Length (mm)		108	141	108	141	108	141
	Diameter (mm)		15	14	15	14	14	14
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-	-
		100x15	-	-	-	-	-	-
		110x20	-	-	-	-	-	-
135x10		-	-	-	-	-	-	
135x12		-	-	-	-	-	-	
142x12		-	-	-	-	-	-	
150x12	-	-	-	-	-	-		
Bearing	Stainless ball	X	X	X	X	-	-	
	Cup	Super Finishing	Super Finishing	Super Finishing	Super Finishing	Polish	Polish	
	Cone	CBN/Polish	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	-	-	
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	Contact	
	Freehub body	-	Contact	-	Contact	-	Contact	
Internal grease sleeve		X	X	X	X	X	X	
Requires rim tape		-	-	-	-	-	-	
Tire	Type	Tubular	Tubular	Tubular	Tubular	Tubeless	Tubeless	
	Recommended size	23-28" - 25-28"	23-28" - 25-28"	23-28" - 25-28"	23-28" - 25-28"	23-622 - 28-622	23-622 - 28-622	
Rim	Material	CFRP	CFRP	CFRP	CFRP	Aluminum	Aluminum	
	Finish	-	-	-	-	Standard	Standard	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Color	Black	Black	Black	Black	Black	Black	
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Color	Black	Black	Black	Black	Gray	Gray	
Freehub body	Material	-	Titanium	-	Titanium	-	Steel	
	Finish	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
QR nut	Material	Aluminum	Aluminum	Aluminum	Aluminum	Resin	Resin	
	Color	Series color	Series color	Series color	Series color	Black	Black	
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	
Average weight (w/o QR, rim tape, tubeless tape, valve stem, lock ring)		662g	921g	709g	923g	705g	944g	
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	

ROAD / Wheel

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.	WH-RS81-C24-CL-F	WH-RS81-C24-CL-R	WH-RS81-C24-TL-F	WH-RS81-C24-TL-R	WH-RS81-C35-CL-F	WH-RS81-C35-CL-R	
Color	1	Black	Black	Black	Black	Black	
	2	-	-	-	-	-	
	3	-	-	-	-	-	
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)	21	23	21	24	35	
	Width (mm)	20.8	20.8	20.8	20.8	20.8	
	Rim joint	Welded	Welded	Welded	Welded	Welded	
	Brazed reinforcement	-	-	-	-	-	
Spokes	Number	16	20	16	20	21	
	Bladed	X	X	X	X	X	
	Butted	X	X	X	X	X	
Axle	Fixing method	QR	QR	QR	QR	QR	
	QR skewer length (mm)	129	-	-	-	-	-
		133	X	-	X	-	X
		161	-	-	-	-	-
		163	-	X	-	X	-
		166	-	-	-	-	-
		168	-	X	-	X	-
		170	-	-	-	-	-
	173	-	-	-	-	-	
	Length (mm)	108	141	108	141	108	141
	Diameter (mm)	14	14	14	14	14	14
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-
		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	
D2 rim	-	-	-	-	-	-	
Offset rim	-	X	-	X	-	-	
Digital adjustment system	X	X	X	X	X	X	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	
	Freehub body	-	Contact	-	Contact	-	Contact
Internal grease sleeve	X	X	X	X	X	X	
Requires rim tape	X	X	-	-	X	X	
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	-	
	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)		615g	887g	667g	914g	733g	
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	

ROAD / Wheel

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		WH-RS81-C35-TL-F	WH-RS81-C35-TL-R	WH-RS81-C50-CL-F	WH-RS81-C50-CL-R	WH-RS610-TL-F	WH-RS610-TL-R	
Color	1	Black	Black	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
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	622x17C	622x17C	622x15C	622x15C	
Rim	Height (mm)	35	35	50	50	22	24	
	Width (mm)	20.8	20.8	22.4	22.4	20.8	20.8	
	Rim joint	Welded	Welded	Sleeved	Sleeved	Welded	Welded	
	Brazed reinforcement	-	-	-	-	-	-	
Spokes	Number	16	21	16	21	16	20	
	Bladed	X	X	X	X	X	X	
	Butted	X	X	X	X	X	X	
Fixing method		QR	QR	QR	QR	QR	QR	
Axle	QR skewer length (mm)	129	-	-	-	-	-	
		133	X	-	X	-	X	
		161	-	-	-	-	-	
		163	-	X	-	X	-	X
		166	-	-	-	-	-	-
		168	-	X	-	X	-	X
		170	-	-	-	-	-	-
		173	-	-	-	-	-	-
	Length (mm)		108	141	108	141	108	141
	Diameter (mm)		14	14	14	14	9	10
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-	-
		100x15	-	-	-	-	-	-
110x20		-	-	-	-	-	-	
135x10		-	-	-	-	-	-	
135x12		-	-	-	-	-	-	
142x12		-	-	-	-	-	-	
Stainless ball		-	-	-	-	-	-	
Bearing	Cup	Polish	Polish	Polish	Polish	Polish	Polish	
	Cone	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	CBN/Polish	
	Center lock	-	-	-	-	-	-	
Disc mount	Center lock mount cover option	-	-	-	-	-	-	
	140mm Disc rotor compatible	-	-	-	-	-	-	
	Optbal (2:1)	-	X	-	X	-	-	
D2 rim		-	-	X	X	-	-	
Offset rim		-	-	-	-	-	X	
Digital adjustment system		X	X	X	X	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact	
	Freehub body	-	Contact	-	Contact	-	Contact	
Internal grease sleeve		X	X	X	X	X	X	
Requires rim tape		-	-	X	X	-	-	
Tire	Type	Tubeless	Tubeless	Clincher **	Clincher **	Tubeless	Tubeless	
	Recommended size	23-622 - 28-622	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	Aluminum	Aluminum	
	Finish	CFRP	CFRP	CFRP	CFRP	Black	Black	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Color	Black	Black	Black	Black	Black	Black	
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Color	Black	Black	Black	Black	Black	Black	
Freehub body	Material	-	Steel	-	Steel	-	Steel	
	Finish	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	Buffed / Anodized	Anodized	Anodized	
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel	
	Finish	Anodized	Anodized	Anodized	Anodized	w/Plated Nut	w/Plated Nut	
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
QR nut	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Color	Black	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	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)		767g	977g	841g	1071g	774g	1055g	
Note			*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		*The adapter is needed to use 10-speed CS	

ROAD / Wheel

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		WH-RS330-CL-F	WH-RS330-CL-R	WH-RS21-CL-F	WH-RS21-CL-R	WH-RS11-F	WH-RS11-R	
Color	1	Black	Black	Black	Black	Black	Black	
	2	White	White	Silver	Silver	Silver	Silver	
	3	-	-	White	White	White	White	
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)	30	30	22	24	24	24	
	Width (mm)	20.8	20.8	20.8	20.8	20.8	20.8	
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved	
	Brazed reinforcement	-	-	-	-	-	-	
Spokes	Number	16	21	16	20	16	20	
	Bladed	X	X	X	X	X	X	
	Butted	X	X	X	X	-	-	
Fixing method		QR	QR	QR	QR	QR	QR	
Axle	QR skewer length (mm)	129	-	-	-	-	-	
		133	X	-	X	-	X	
		161	-	-	-	-	-	
		163	-	X	-	X	-	X
		166	-	-	-	-	-	-
		168	-	X	-	X	-	X
		170	-	-	-	-	-	-
	173	-	-	-	-	-	-	
	Length (mm)		108	141	108	141	108	141
	Diameter (mm)		9	10	9	10	9	10
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-	-
		100x15	-	-	-	-	-	-
110x20		-	-	-	-	-	-	
135x10		-	-	-	-	-	-	
135x12		-	-	-	-	-	-	
142x12		-	-	-	-	-	-	
150x12	-	-	-	-	-	-		
Bearing	Stainless ball	-	-	-	-	-	-	
	Cup	Polish	Polish	Polish	Polish	Polish	Polish	
	Cone	CBN/Polish	CBN/Polish	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	-	-	-	-	
D2 rim		-	-	-	-	-	-	
Offset rim		-	X	-	X	-	X	
Digital adjustment system		-	-	-	-	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact	
	Freehub body	-	Contact	-	Contact	-	Contact	
Internal grease sleeve		X	X	-	X	-	X	
Requires rim tape		X	X	X	X	X	X	
Tire	Type	Clincher	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	23-622 - 32-622	
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Black: Anodized Silver; Anodized White: Painted	Black: Anodized Silver; Anodized White: Painted	Black: Anodized Silver; Anodized White: Painted	Black: Anodized Silver; Anodized White: Painted	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Color	Black	Black	Black	Black	Black	Black	
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Color	Black	Black	Black	Black	Black	Black	
Freehub body	Material	-	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	w/Plated Nut	w/Plated Nut	-	-	-	-	
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Anodized	Anodized	Anodized	Anodized	
QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Anodized	Anodized	Anodized	Anodized	
QR nut	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Color	Black	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	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)		875g	1177g	777g	1062g	816g	1087g	
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	

ROAD / Wheel

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		WH-R5010-CL-F	WH-R5010-CL-R	WH-R501-30-F	WH-R501-30-R	WH-R501-A-F	WH-R501-A-R	
Color	1	Black	Black	Black	Black	Black	Black	
	2	-	-	Silver	Silver	Silver	Silver	
	3	-	-	-	-	-	-	
Front / Rear		Front	Rear	Front	Rear	Front	Rear	
Brake Type		Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	
Speeds		-	10*/11	-	8/9/10	-	8/9/10	
O.L.D. (mm)		100	130	100	130	100	130	
Wheel Size		622x15C	622x15C	622x15C	622x15C	622x15C	622x15C	
Rim	Height (mm)	24	24	30	30	24	24	
	Width (mm)	20.8	20.8	20.8	20.8	20.8	20.8	
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved	
	Brazed reinforcement	-	-	-	-	-	-	
Spokes	Number	20	24	20	24	20	24	
	Bladed	-	-	X	X	X	X	
	Butted	-	-	-	-	-	-	
Fixing method		QR	QR	QR	QR	QR	QR	
Axle	QR skewer length (mm)	129	-	-	-	-	-	
		133	X	-	X	-	X	
		161	-	-	-	-	-	
		163	-	X	-	X	-	X
		166	-	X	-	X	-	X
		168	-	-	-	-	-	-
		170	-	-	-	-	-	-
	173	-	-	-	-	-	-	
	Length (mm)		108	141	108	141	108	141
	Diameter (mm)		9	10	9	10	9	10
Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-	-	
	100x15	-	-	-	-	-	-	
	110x20	-	-	-	-	-	-	
	135x10	-	-	-	-	-	-	
	135x12	-	-	-	-	-	-	
	142x12	-	-	-	-	-	-	
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	-	-	-	-	-	-	
	Center lock mount cover option	-	-	-	-	-	-	
	140mm Disc rotor compatible	-	-	-	-	-	-	
Optbal (2:1)		-	-	-	-	-	-	
D2 rim		-	-	-	-	-	-	
Offset rim		-	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	X	X	X	X	
Tire	Type	Clincher	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	23-622 - 32-622	
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Black	Black	Anodized	Anodized	Anodized	Anodized	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Color	Black	Black	Black	Black	Black	Black	
Nipple	Material	Brass	Brass	Brass	Brass	Brass	Brass	
	Color	Silver	Silver	Silver	Silver	Silver	Silver	
Freehub body	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	Steel	Steel	
	Finish	-	-	-	-	-	-	
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
QR housing	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
QR nut	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Color	Black	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	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)		818g	1102g	893g	1143g	822g	1078g	
Note			*The adapter is needed to use 10-speed CS					

ROAD / Wheel

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		WH-R501-F	WH-R501-R	WH-RX830-TL-F	WH-RX830-TL-R	WH-RX010-CL-F	WH-RX010-CL-R	
Color	1	Black	Black	Black	Black	Black	Black	
	2	Silver	Silver	-	-	White	White	
	3	-	-	-	-	-	-	
Front / Rear		Front	Rear	Front	Rear	Front	Rear	
Brake Type		Rim brake	Rim brake	Disc brake	Disc brake	Disc brake	Disc brake	
Speeds		-	8/9/10	-	10*/11	-	10*/11	
O.L.D. (mm)		100	130	100	135	100	135	
Wheel Size		622x15C	622x15C	622x17C	622x17C	622x17C	622x17C	
Rim	Height (mm)	24	24	35	35	24	24	
	Width (mm)	20.8	20.8	23	23	23	23	
	Rim joint	Sleeved	Sleeved	Welded	Welded	Sleeved	Sleeved	
	Brazed reinforcement	-	-	-	-	-	-	
Spokes	Number	20	24	24	24	28	28	
	Bladed	-	-	X	X	-	-	
	Butted	-	-	X	X	-	-	
Fixing method		QR	QR	QR	QR	QR	QR	
Axle	QR skewer length (mm)	129	-	-	-	-	-	
		133	X	-	X	-	X	
		161	-	-	-	-	-	
		163	-	X	-	-	-	
		166	-	X	-	-	-	
		168	-	-	-	X	-	X
		170	-	-	-	-	-	-
	173	-	-	-	X	-	X	
	Length (mm)	108	141	108	146	108	146	
	Diameter (mm)	9	10	14	14	10	10	
Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-	-	-	
	100x15	-	-	-	-	-	-	
	110x20	-	-	-	-	-	-	
	135x10	-	-	-	-	-	-	
	135x12	-	-	-	-	-	-	
	142x12	-	-	-	-	-	-	
150x12	-	-	-	-	-	-		
Bearing	Stainless ball	-	-	-	-	-	-	
	Cup	Polish	Polish	Polish	Polish	Polish	Polish	
	Cone	CBN finish	CBN finish	CBN/Polish	CBN/Polish	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	Contact	Contact	
	Freehub body	-	Contact	-	Contact	-	Contact	
Internal grease sleeve		-	-	X	X	-	X	
Requires rim tape		X	X	-	-	X	X	
Tire	Type	Clincher	Clincher	Tubeless	Tubeless	Clincher	Clincher	
	Recommended size	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	25-622 - 38-622	25-622 - 38-622	
Rim	Material	Aluminum	Aluminum	CFRP / Aluminum	CFRP / Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	CFRP	CFRP	Anodized /Painted	Anodized /Painted	
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	Brass	Brass	
	Color	Silver	Silver	Black	Black	Silver	Silver	
Freehub body	Material	-	Steel	-	Steel	-	Steel	
	Finish	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Steel	Steel	Aluminum	Aluminum	Steel	Steel	
	Finish	-	-	Anodized	Anodized	-	-	
QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Anodized	Anodized	Painted	Painted	
QR housing	Material	Steel	Steel	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Anodized	Anodized	Painted	Painted	
QR nut	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Color	Black	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	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)		822g	1078g	836g	1005g	982g	1177g	
Note					*The adapter is needed to use 10-speed CS		*The adapter is needed to use 10-speed CS	

ROAD / Wheel

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		WH-RX31-F	WH-RX31-R	WH-RX05-F	WH-RX05-R	
Color	1	Black	Black	Black	Black	
	2	-	-	White	White	
	3	-	-	-	-	
Front / Rear		Front	Rear	Front	Rear	
Brake Type		Disc brake	Disc brake	Disc brake	Disc brake	
Speeds		-	10*/11	-	8/9/10*	
O.L.D. (mm)		100	135	100	135	
Wheel Size		622x17C	622x17C	622x17C	622x17C	
Rim	Height (mm)	24	24	24	24	
	Width (mm)	22.4	22.4	22.4	22.4	
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved	
	Brazed reinforcement	-	-	-	-	
Spokes	Number	24	24	28	28	
	Bladed	X	X	-	-	
	Butted	X	X	-	-	
Axle	Fixing method		QR	QR	QR	QR
	QR skewer length (mm)	129	-	-	-	-
		133	X	-	X	-
		161	-	-	-	-
		163	-	-	-	-
		166	-	-	-	-
		168	-	X	-	X
		170	-	-	-	-
	173	-	X	-	X	
	Length (mm)		108	146	108	146
	Diameter (mm)		10	10	10	10
	Thru Axle Length x Inner Diameter (mm)	100x8	-	-	-	-
		100x15	-	-	-	-
110x20		-	-	-	-	
135x10		-	-	-	-	
135x12		-	-	-	-	
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	
Requires rim tape		X	X	X	X	
Tire	Type		Clincher	Clincher	Clincher	Clincher
	Recommended size		25-622 - 38-622	25-622 - 38-622	25-622 - 38-622	25-622 - 38-622
Rim	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized (Black) Painted (White)	Anodized (Black) Painted (White)
Spoke	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Color		Black	Black	Black	Black
Nipple	Material		Aluminum	Aluminum	Brass	Brass
	Color		Black	Black	Silver	Silver
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	Aluminum	Aluminum
	Finish		Anodized	Anodized	Painted	Painted
QR housing	Material		Aluminum	Aluminum	Steel	Steel
	Finish		Anodized	Anodized	Painted	Painted
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
	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)		912g	1096g	958g	1142g	
Note			*The adapter is needed to use 10-speed CS		*The adapter is needed to use 10-speed CS	

ROAD / 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		

ARCHIVE

GENERAL / Chain

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	ULTEGRA
Model no.	CN-HG900-11	CN-HG701-11	CN-HG600-11	CN-HG95	CN-HG54	CN-6701
Type	HG-X11	HG-X11	HG-X11	HG-X 10-speed	HG-X 10-speed	HG 10-speed
Pin link plate	SIL-TEC	SIL-TEC	-	SIL-TEC	Gray	Zinc-Alloy Plated
Roller link plate	SIL-TEC	SIL-TEC	SIL-TEC	SIL-TEC	Brown	Gray
Roller	SIL-TEC	-	-	-	-	-
Chromizing treatment link pin	X	X	X	X	X	X
Hollow pin	X	-	-	-	-	-
Average weight (114 links)	247g	257g	257g	273g	273g	267g
Note						

ARCHIVE

GENERAL / Chain

Series	ULTEGRA	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CN-6600	CN-HG93	CN-HG53	CN-HG71	CN-HG40
Type	HG 10-speed	HG 9-speed	HG 9-speed	HG	HG
Pin link plate	Zinc-Alloy Plated	Zinc-Alloy Plated	Gray	Silver	Gray
Roller link plate	Gray	Gray	Brown	Gray	Brown
Roller	-	-	-	-	-
Chromizing treatment link pin	X	X	X	X	-
Hollow pin	-	-	-	-	-
Average weight (114 links)	273g	299g	299g	324g	324g
Note	For triple				

ARCHIVE

GENERAL / Disc Rotor

Series	XTR/SAINT	XTR/SAINT	XTR	SAINT/DEORE XT	SAINT/DEORE XT	DEORE XT
Model no.	SM-RT99	SM-RT99-A	SM-RT98	SM-RT86	SM-RT81	SM-RT76
CENTER LOCK	X	X	X	-	X	-
6-bolt (P.C.D. 44mm)	-	-	-	X	-	X
ICE TECHNOLOGIES	X (Rotor fin)	X (Rotor fin)	X	X	X	-
FREEZA (Rotor fin)	X	X	-	-	-	-
Outside diameter	203mm	-	X	X	X	X
	180mm	X	-	X	X	X
	160mm	X	-	X	X	X
	140mm	X*	X* (NEW)	X*	-	X* (NEW)
Alloy lock ring	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
	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)	187.0g (203mm) 154.0g (180mm) 135.0g (160mm)	173.0g (203mm) 149.0g (180mm) 122.0g (160mm) 100.5g (140mm)	209g (203mm) 169g (180mm) 141g (160mm)
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	With anti loosen tightening plate

ARCHIVE

GENERAL / Disc Rotor

Series	SHIMANO	SLX/DEORE	DEORE	SHIMANO	SHIMANO	SHIMANO
Model no.	SM-RT68	SM-RT66	SM-RT64	SM-RT56	SM-RT54	SM-RT30
CENTER LOCK	X	-	X	-	X	X
6-bolt (P.C.D. 44mm)	-	X	-	X	-	-
ICE TECHNOLOGIES	X	-	-	-	-	-
FREEZA (Radiator fin)	-	-	-	-	-	-
Outside diameter	203mm	X	X	X	-	-
	180mm	X	X	X	X	X
	160mm	X	X	X	X	X
	140mm	-	-	-	-	-
Alloy lock ring	-	-	-	-	-	-
Adapter	Material	Steel	-	Aluminum	-	Aluminum
	Finish	Painted	-	Painted	-	Painted
Rotor	Material	Stainless steel/ Aluminum/ Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Polished	Polished	Polished	Polished	Polished
Pad compatibility	Metal	X	X	X	-	-
	Resin	X	X	X	X	X
Average weight (W/O lock ring)	214g (203mm) 180g (180mm) 150g (160mm)	-	-	-	-	-
Note		With anti loosen tightening plate		With anti loosen tightening plate		

ARCHIVE

GENERAL / Disc Rotor

Series		SHIMANO	SHIMANO
Model no.		SM-RT20	SM-RTC60
CENTER LOCK		X	-
6-bolt (P.C.D. 44mm)		-	-
ICE TECHNOLOGIES		-	-
FREEZA (Radiator fin)		-	-
Outside diameter	203mm	-	-
	180mm	X	-
	160mm	X	X
	140mm	-	-
Alloy lock ring		-	-
Adapter	Material	Stainless steel	Stainless steel
	Finish	Painted	Painted
Rotor	Material	Stainless steel	Stainless steel
	Finish	Polished	Polished
Pad compatibility	Metal	-	-
	Resin	X	X
Average weight (W/O lock ring)		-	-
Note			Rotor is fixed by 5-bolts with 74mm PCD.

ARCHIVE

GENERAL / 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
Average weight		-	-	-	-	-	-
Note							

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GENERAL / 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
Average weight		-
Note		

ARCHIVE

GENERAL / 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
Average weight		-
Note	<p>Use this disc rotor adapter to attach the 6-bolt mount type rotor to CENTER LOCK mount type hub. Cannot be used with the 6-bolt rotor that is installed with an aluminum adapter. (SM-RT86/76)</p>	

ARCHIVE

GENERAL / Outer Cable

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

ARCHIVE

GENERAL / 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	-	-	-	-
Compatible Brake Lever	Roller brake	-	-	-	-
	V-BRAKE 4-finger	X***	X***	X***	X***
	V-BRAKE 3-finger	X***	X***	X***	X***
	V-BRAKE 2-finger	X	X	X	X
Body	Road	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum
Lead pipe	Finish	Anodized + Laser Marking	Barrel and Sticker	Barrel and Printed	Barrel and Sticker
	Material	Stainless steel	-	-	Stainless steel
Average weight		-	-	-	-
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

ARCHIVE

GENERAL / Hub Dynamo

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	ALFINE	ALFINE	
Model no.		DH-T785	DH-T785-1D	DH-T780	DH-T780-1N	DH-S701	DH-S501	
Regulation	StVZO	X	X	X	X	X	X	
	TPGBi	-	-	-	-	-	-	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Silver	Silver	Silver	Silver	Silver	Silver	
	2	Black	Black	Black	Black	Piano Black	Piano Black	
	3	-	-	-	-	-	-	
Type		Disc brake	Disc brake	Regular	Regular	Disc brake	Disc brake	
Center lock mount type		X	X	-	-	X	X	
Voltage (V)		6	6	6	6	6	6	
Output (W)		3	1.5	3	1.5	1.5	3	
Wheel size	26-28inch	X	-	X	-	-	X	
	20-28inch	-	X	-	X	X	-	
	18-28inch	-	-	-	-	-	-	
	16-28inch	-	-	-	-	-	-	
	24-28inch	-	-	-	-	-	-	
	20-24inch	-	-	-	-	-	-	
	16-20inch	-	-	-	-	-	-	
Compatible wheel size (mm)		(646-716)	(492-716)	(646-716)	(492-716)	(492-716)	(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	54	52.1	
Offset (mm)		4	3.1	0	0	3.1	3.8	
Hole P.C.D. (mm)		70	57	70	57	57	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	Anodized	
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	430g	564g	
Note								

GENERAL / Hub Dynamo

Series		DEORE LX	DEORE LX	DEORE LX	SHIMANO	SHIMANO	SHIMANO	
Model no.		DH-T675	DH-T670-3N	DH-T670-2N	DH-3D80	DH-3D72	DH-3D37-QR	
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		Disc brake	Regular	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)		3	3	2.4	3	3	3	
Wheel size	26-28inch	X	X	X	X	X	-	
	20-28inch	-	-	-	-	-	-	
	18-28inch	-	-	-	-	-	-	
	16-28inch	-	-	-	-	-	X	
	24-28inch	-	-	-	-	-	-	
	20-24inch	-	-	-	-	-	-	
	16-20inch	-	-	-	-	-	-	
Compatible wheel size (mm)		(646-716)	(646-716)	(646-716)	(646-716)	(646-716)	(400-716)	
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	60	60	52.1	52.1	51	
Offset (mm)		4	0	0	4	3.8	4	
Hole P.C.D. (mm)		70	70	70	70	70	74	
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	Steel	Steel	Steel	Aluminum	Steel	
		Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
	QR lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
		Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Nickel Plated
		Color	Silver	Silver	Silver	Black	Silver / Black	-
	QR housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
		Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Nickel Plated
	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		559g	550g	550g	503g	559g	650g	
Note								

GENERAL / Hub Dynamo

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		DH-3D37-NT	DH-3D32-QR	DH-3D32-NT	DH-3N80	DH-2N80E	DH-3N72	
Regulation	StVZO	X	X	X	X	-	X	
	TPGBi	-	-	-	X	-	-	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Silver	Clear	Clear	Silver	Silver	Silver	
	2	Black	Black	Black	-	-	Black	
	3	-	-	-	-	-	-	
Type		Disc brake	Disc brake	Disc brake	Regular	Regular	Regular	
Center lock mount type		X	-	-	-	-	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		3	3	3	3	2.4	3	
Wheel size	26-28inch	-	-	-	X	X	X	
	20-28inch	-	-	-	-	-	-	
	18-28inch	-	-	-	-	-	-	
	16-28inch	X	X	X	-	-	-	
	24-28inch	-	-	-	-	-	-	
	20-24inch	-	-	-	-	-	-	
	16-20inch	-	-	-	-	-	-	
Compatible wheel size (mm)		(400-716)	(400-716)	(400-716)	(646-716)	(646-716)	(646-716)	
QR type		-	X	-	X	X	X	
Nut type		X	-	X	-	-	-	
O.L.D. (mm)		100	100	100	100	100	100	
Flange Distance (mm)		51	51.1	51.1	60.0	60.0	60.0	
Offset (mm)		3.6	4	3.6	0	0	0	
Hole P.C.D. (mm)		74	74	74	70	70	70	
Axle length (mm)		140	108	140	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	Painted	Painted	Painted	Anodized	Anodized	Anodized & Painted	
QR	Axle	Material	Steel	Steel	Steel	Aluminum	Aluminum	
		Finish	Manganese Phosphate Coated	Zinc plated	Manganese Phosphate Coated	Chromating	Chromating	Zinc plated
	QR lever	Material	-	Steel	-	Aluminum	Aluminum	Aluminum
		Finish	-	Nickel Plated	-	Anodized	Anodized	Anodized
		Color	-	-	-	Silver	Silver	Silver
	QR housing	Material	-	Steel	-	Aluminum	Aluminum	Aluminum
		Finish	-	Nickel Plated	-	Anodized	Anodized	Anodized
	QR nut	Material	-	Resin & Steel	-	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	-	-	-	-	-	-
133		-	X	-	X	X	X	
Average weight		680g	685g	705g	483g	475g	560g	
Note								

GENERAL / Hub Dynamo

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	CAPREO	
Model no.		DH-2N72	DH-3N31-QR	DH-3N31-NT	DH-2N35-QR	DH-2N35-NT	DH-F703	
Regulation	StVZO	-	X	X	-	-	X	
	TPGBi	-	X	X	-	-	-	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Silver	Silver	Silver	Silver	Silver	Silver	
	2	-	Black	Black	Black	Black	-	
	3	-	White	-	-	-	-	
Type		Regular	Regular	Regular	Regular	Regular	Regular	
Center lock mount type		-	-	-	-	-	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		2.4	3	3	2.4	2.4	3	
Wheel size	26-28inch	X	-	-	-	-	-	
	20-28inch	-	-	-	-	-	-	
	18-28inch	-	-	-	-	-	-	
	16-28inch	-	X	X	X	X	-	
	24-28inch	-	-	-	-	-	-	
	20-24inch	-	-	-	-	-	-	
	16-20inch	-	-	-	-	-	X	
Compatible wheel size (mm)		(646-716)	(400-716)	(400-716)	(400-716)	(400-716)	(400-536)	
QR type		X	X	-	X	-	X	
Nut type		-	-	X	-	X	-	
O.L.D. (mm)		100	100	100	100	100	74	
Flange Distance (mm)		60.0	60.0	60.0	60.0	60.0	44.6	
Offset (mm)		0	0.6	1	0.6	1	0	
Hole P.C.D. (mm)		70	74	74	74	74	74	
Axle length (mm)		108	108	140	108	140	82	
Spoke size		#14	#14	#14	#14	#13 / #14	#14	
Spoke hole	24H	-	-	-	-	-	X	
	28H	-	-	X	-	X	-	
	32H	X	X	X	X	-	-	
	36H	X	X	X	X	X	-	
Seal		Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	
Roller brake modulator grade	More than 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	Painted	Painted	Anodized	
QR	Axle	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Zinc plated	Manganese Phosphate Coated	Manganese Phosphate Coated	Zinc plated	Manganese Phosphate Coated	Zinc plated
	QR lever	Material	Aluminum	Steel	-	Steel	-	Aluminum
		Finish	Anodized	Nickel Plated	-	Nickel Plated	-	Anodized
		Color	Silver	-	-	-	-	Black
	QR housing	Material	Aluminum	Steel	-	Steel	-	Aluminum
		Finish	Anodized	Nickel Plated	-	Nickel Plated	-	Anodized
	QR nut	Material	Resin & Steel	Resin & Steel	-	Resin & Steel	-	Resin & Steel
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	-	X	-	X	-	-
133		X	X	-	X	-	X	
Average weight		550g	700g	705g	705g	735g	590g	
Note								

GENERAL / Hub Dynamo

Series		SHIMANO	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	
Model no.		DH-F703-S	DH-C6000-3R-QR	DH-C6000-3R-NT	DH-C6000-2R	DH-C6000-1R	DH-C6000-1N	
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	
	3	-	-	-	-	-	-	
Type		Regular	Hub Roller Brake	Hub Roller Brake	Hub Roller Brake	Hub Roller Brake	Regular	
Center lock mount type		-	-	-	-	-	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		3	3	3	2.4	1.5	1.5	
Wheel size	26-28inch	-	X	X	X	X	-	
	20-28inch	-	-	-	-	-	X	
	18-28inch	-	-	-	-	-	-	
	16-28inch	-	-	-	-	-	-	
	24-28inch	-	-	-	-	-	-	
	20-24inch	-	-	-	-	-	-	
	16-20inch	X	-	-	-	-	-	
Compatible wheel size (mm)		(400-536)	(646-716)	(646-716)	(646-716)	(646-716)	(448-716)	
QR type		X	X	-	-	-	-	
Nut type		-	-	X	X	X	X	
O.L.D. (mm)		74	100	100	100	100	100	
Flange Distance (mm)		44.6	58.1	58.1	58.1	58.1	56.0	
Offset (mm)		0	5.2	4.7	4.7	4.7	0	
Hole P.C.D. (mm)		74	76	76	76	76	67	
Axle length (mm)		82	108	140	140	140	140	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	X	-	-	-	-	-	
	28H	X	-	-	-	-	-	
	32H	-	X	X	X	X	X	
	36H	-	X	X	X	X	X	
Seal		Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	
Roller brake modulator grade	More than 26inch	High	-	X	X	X	-	
		Standard	-	X	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	Painted	Painted	Painted	Painted	Painted	Painted	
QR	Axle	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Zinc plated	Manganese Phosphate Coated	Manganese Phosphate Coated	Manganese Phosphate Coated	Manganese Phosphate Coated	Manganese Phosphate Coated
	QR lever	Material	Aluminum	Steel	-	-	-	-
		Finish	Anodized	Nickel Plated	-	-	-	-
		Color	Black	-	-	-	-	-
	QR housing	Material	Aluminum	Steel	-	-	-	-
		Finish	Anodized	Nickel Plated	-	-	-	-
	QR nut	Material	Resin & Steel	Resin & Steel	-	-	-	-
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	-	-	-	-	-	-
133		X	X	-	-	-	-	
Average weight		590g	947g	960g	960g	960g	630g	
Note								

GENERAL / Hub Dynamo

Series		NEXUS	ALIVIO	ALIVIO	NEXUS	NEXUS	NEXUS	
Model no.		DH-C3000-1N	DH-T4050-1D	DH-T4000-1N	DH-C2100-N	DH-C2100-NC	DH-2N40-J	
Regulation	StVZO	X	X	X	-	-	-	
	TPGBi	-	-	-	-	-	-	
	JIS	-	-	-	-	-	X	
	Others	-	-	-	VIA	VIA	-	
Color	1	Silver	Silver	Silver	Silver	Silver	Silver	
	2	Black	Black	Black	Black	Black	Black	
	3	-	-	-	-	-	-	
Type		Regular	Disc brake	Regular	Regular	Regular	Regular	
Center lock mount type		-	X	-	-	-	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		1.5	1.5	1.5	0.9	0.9	2.4	
Wheel size	26-28inch	-	-	-	-	-	-	
	20-28inch	X	-	X	-	-	-	
	18-28inch	-	X	-	-	-	-	
	16-28inch	-	-	-	-	-	-	
	24-28inch	-	-	-	X	-	X	
	20-24inch	-	-	-	-	X	-	
	16-20inch	-	-	-	-	-	-	
Compatible wheel size (mm)		(448-716)	(448-716)	(448-716)	-	-	-	
QR type		-	X	X	-	-	-	
Nut type		X	-	-	X	X	X	
O.L.D. (mm)		100	100	100	93	93	93	
Flange Distance (mm)		56.0	51	56.0	58	58	60.0	
Offset (mm)		0	1.9	0	0.5	0.5	0	
Hole P.C.D. (mm)		67	67	67	60	60	69	
Axle length (mm)		140	108	108	155	155	155 / 150	
Spoke size		#14	#14	#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	X	-	-	-	
	Others	-	-	-	X (J2-A)	X (J2-A)	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum & Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted / Passivation	
QR	Axle	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Manganese Phosphate Coated	Zinc plated	Zinc plated	Plating	Plating	Zinc plated
	QR lever	Material	-	Aluminum	Aluminum	-	-	-
		Finish	-	E-Coating	E-Coating	-	-	-
		Color	-	Black	-	-	-	-
	QR housing	Material	-	Steel	Steel	-	-	-
		Finish	-	E-Coating	E-Coating	-	-	-
	QR nut	Material	-	Resin & Steel	Resin & Steel	-	-	-
		Finish	-	-	-	-	-	-
	QR Skewer Length (mm)	129	-	-	-	-	-	-
133		-	X	X	-	-	-	
Average weight		600g	-	580g	491g	491g	630g	
Note							* Japanese market only	

GENERAL / 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	
		Finish	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	

GENERAL / Light

Series	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.	LP-C2111-S	LP-C2100-S	LP-C2101-S	LP-C2111-B	LP-C2100-B	LP-C2101-B
Auto light	X	-	-	X	-	-
Type	6V-0.9W	6V-0.9W	6V-0.9W	6V-0.9W	6V-0.9W	6V-0.9W
Main light	1W	1W	1W	1W	1W	1W
Sub light	-	-	-	-	-	-
Standlight (LED flashing) function	X	-	-	X	-	-
Reflector integration	X	X	X	X	X	X
Electric power input	Tab-on type	-	-	-	-	-
	Connector type	J2A	J2-A	J2-A	J2A	J2-A
Light body material	Resin	Resin	Resin	Resin	Resin	Resin
Color	1	CP	White	White	CP	White
	2	Gray	Black	Black	Gray	Black
	3	Black	Gray	Gray	Black	Gray
	4	Silver	Silver	Silver	Silver	Silver
	5	White	CP	CP	White	CP
	6	-	-	-	-	-
Attachment position	Light stay	X	X	X	-	-
	Below basket	-	-	-	X	X
	Fork center	-	-	-	-	-
	Handle bar	-	-	-	-	-
	On mud guard	-	-	-	-	-
	Mud guard style stay	-	-	-	-	-
Compatible seat stay diameter (mm)	Seat stay	-	-	-	-	-
	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
Electric wire color	Black	-	-	-	-	-
	Gray	X	X	X	X	X
Electric wire length (mm)	Tab-on type	-	-	-	-	-
	Connector type	410	410 (J2-A)	410 (J2-A)	410	675 (J2-A)
EZ cable clamp	-	-	-	-	-	-
Cord length adjuster	-	-	-	-	-	-
Compatible wheel size	-	-	-	-	-	-
Average weight	-	-	-	-	-	-
Note	* Japanese market only	* Japanese market only * Difference between these 2 models is appearance design .		* Japanese market only	* Japanese market only * Difference between these 2 models is appearance design .	

GENERAL / Light

Series	SHIMANO	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.	LP-R200	LP-X200	LP-X103	LP-X102-H	LP-X102-HC	LP-X102
Auto light	X	X	X	X	X	X
Type	6V-2.4W	6V-2.4W	6V-2.4W	6V-2.4W	6V-2.4W	6V-2.4W
Main light	1W Super Bright White LED X 2	1W Super Bright White LED X 2	1W Super Bright White LED	1W Super Bright White LED	1W Super Bright White LED	1W Super Bright White LED
Sub light	-	-	-	-	-	-
Standlight (LED flashing) function	-	-	X	-	-	-
Reflector integration	-	-	-	X	X	-
Electric power input	Tab-on type	X	X	X	X	X
	Connector type	X	X	X	X	X
Light body material	Resin	Resin	Resin	Resin	Resin	Resin
Color	1	Silver(Painted)	Silver(Painted)	Silver(Painted)	Silver(Painted)	Silver(Painted)
	2	Black(Painted)	-	Black(Painted)	Black(Painted)	Black(Painted)
	3	-	White(Painted)	White(Painted)	White(Painted)	White(Painted)
	4	-	Black(Material color)	CP	CP	CP
	5	-	Gray(Material color)	-	-	-
	6	-	-	-	-	-
Attachment position	Light stay	-	X	X	X	X
	Below basket	-	-	-	-	-
	Fork center	-	-	-	-	X
	Handle bar	X(Center)	-	-	-	-
	On mud guard	-	-	-	-	-
	Mud guard style stay	-	-	-	-	-
Compatible seat stay diameter (mm)	13	-	-	-	-	-
	16	-	-	-	-	-
	19	-	-	-	-	-
Compatible handle bar diameter (mm)	22.2	X	-	-	-	-
	25.4	X	-	-	-	-
	31.8	X	-	-	-	-
Switch	Auto	X	X	X	X	X
	Manual (on)	X	X	X	X	X
	Manual (off)	-	-	-	-	-
	Permanent	-	-	-	-	-
Electric wire color	Black	X	X	X	X	X
	Gray	-	-	-	-	-
Electric wire length (mm)	Tab-on type	765	690	405	405	565
	Connector type	180	110	155	155	155
EZ cable clamp	-	-	-	-	-	-
Cord length adjuster	-	-	-	-	-	-
Compatible wheel size	-	-	-	-	-	-
Average weight	-	-	-	-	-	-
Note	*Japanese market only	*Japanese market only	*Japanese market only	*Japanese market only	*Japanese market only	*Japanese market only

GENERAL / Light

Series	NEXUS	NEXUS	NEXUS	NEXUS	TOURNEY	TOURNEY
Model no.	LP-X101-H	LP-X101	LP-X100	LP-NX60-R	LP-RTX2	LP-RTX2
Auto light	X	X	X	-	-	-
Type	6V-2.4W	6V-2.4W	6V-2.4W	6V-2.4W	6V-2.4W	6V-2.4W
Main light	1W Super Bright White LED	1W Super Bright White LED	1W Super Bright White LED	Super Bright Red LED	Super Bright Red LED	Super Bright Red LED
Sub light	-	-	-	-	-	-
Standlight (LED flashing) function	-	-	-	X (if used with LP-X103)	X (if used with LP-X103)	X (if used with LP-X103)
Reflector integration	X	-	-	-	-	-
Electric power input	Tab-on type	X	X	X	-	-
	Connector type	X	X	X	X	X
Light body material	Resin	Resin	Resin	Resin	Resin	Resin
Color	1	Silver(Painted)	Silver(Painted)	Silver(Painted)	Silver(Painted)	Black (material color)
	2	-	-	-	Black(Painted)	-
	3	White(Painted)	White(Painted)	White(Painted)	White(Painted)	-
	4	Black(Material color)	Black(Material color)	Black(Material color)	-	-
	5	Gray(Material color)	Gray(Material color)	Gray(Material color)	-	-
	6	-	-	-	-	-
Attachment position	Light stay	X	X	X	-	-
	Below basket	-	-	-	-	-
	Fork center	-	-	-	-	-
	Handle bar	-	-	-	-	-
	On mud guard	-	-	-	X *	-
	Mud guard style 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	X	X	X	-	-
	Manual (on)	X	X	X	-	-
	Manual (off)	-	-	-	-	-
	Permanent	-	-	-	X	X
Electric wire color	Black	X	X	X	X	X
	Gray	-	-	-	X	X
Electric wire length (mm)	Tab-on type	410	400	675	-	-
	Connector type	160	120	125	Available	910
EZ cable clamp	-	-	-	-	3	5
Cord length adjuster	-	-	-	-	X	X
Compatible wheel size	-	-	-	22/24/26/27 inch	20/22/24 inch CTB	-
Average weight	-	-	-	-	-	-
Note	*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)	*Japanese market only	*Japanese market only

GENERAL / Light (SMRTX2)

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

ARCHIVE

GENERAL / Cycle Computer

Series		TOURNEY
Model no.		SC-TX35
Compatible system		Mechanical
Attachement 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 (ActiveArea)	42.5mm (1.7 inch)
	Font type	Segment
	Panel type	LCD
	Back light	-
	Touch panel	-
Display function	Gear indicator	-
	Speed	X
	Cadence	-
	Trip distance	-
	Odometer	X
	Heart rate	-
	Power	-
	Time/Clock	X
	Altitude/Slope	-
	Temperature	-
	Lap time	-
	Auto display start	X
	Display customizing	-
Setting function	Unit setting	-
	Language choice	-
	Beep on/off	-
	Changing data sampling rate	-
	Di2 battery indicator	-
For Di2 system	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	-
	Average weight	-
Note		Use with SM-TX35-A

PEDAL / 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)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)
Binding	Dual Sided	Dual Sided	Dual sided	Dual sided	Dual Sided	Dual Sided
Pedal axle material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartridge axle	X	X	X	X	X	X
Sealed mechanism	X	X	X	X	X	X
Cleat retention adjuster	X	X	X	X	X	X
Pop-up cage	-	-	-	-	-	-
Integrated cage	-	X	-	X	-	X
Offset binding	X	-	-	-	-	-
Oval shape axle body housing	X	X	-	-	-	-
Cleat included	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51
Optional cleat	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56
Reflector	SM-PD60	SM-PD60	SM-PD60	SM-PD60	SM-PD22	SM-PD60
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized (Silver) / Painted (Bronze)
Cage	Material	-	-	-	-	-
	Material	-	-	-	-	-
Average weight (pair)	310g	379g	-	-	-	455g
Note			1.0mm cleat spacer included	1.0mm cleat spacer included		

ARCHIVE

PEDAL / Pedal (SPD)

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
Cage	Material	-	-	Resin	Aluminum	Resin
Average weight (pair)	380g	443g	568g	567g	472g	533g
Note						

ARCHIVE

PEDAL / Pedal (SPD)

Series	DEORE XT	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-T780	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
Note				

ARCHIVE

PEDAL / Pedal (CLICK'R)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-MT50	PD-T700	PD-T400	PD-T420
Color 1	Black	Black	Black	Black
Color 2	-	-	White	-
Color 3	-	-	-	-
Type	Recreational use (Click'R)	Trekking (Click'R)	Trekking (Click'R)	Trekking (Click'R)
Binding	Dual Sided	Dual Sided	Dual 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	X	X	X	X
Integrated cage	-	-	-	-
Offset binding	-	-	-	-
Oval shape axle body housing	-	-	-	-
Cleat included	SM-SH56	SM-SH56	SM-SH56	SM-SH56
Optional cleat	SM-SH51	SM-SH51	SM-SH51	SM-SH51
Reflector	SM-PD60	Integrated	Integrated	Integrated
Pedal body	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Cage	Material	Resin	Resin	Resin
	Average weight (pair)	498g	457g	507g
Note				

ARCHIVE

PEDAL / 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		

ARCHIVE

PEDAL / Pedal (SPD-SL)

Series	DURA-ACE	ULTEGRA	105	SHIMANO	SHIMANO	SHIMANO	
Model no.	PD-9000	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	Carbon	Resin	Aluminum	Aluminum
	Finish	Painted	Painted	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)	248g	260g	285g	310g	330g	330g	
Note	4mm longer axle available	4mm longer axle available (NEW)		Wider spring tension range	Lighter spring tension		

ARCHIVE

MTB Di2 spec. / Shifting Switch

Series	XTR	XTR
Model no.	SW-M9050-R	SW-M9050-L
Switch type	Shift Switch for rear	Shift Switch for front
Position	Clamp band, Right	Clamp band, Left
Compatible EW	EW-SD50	EW-SD50
Switch QTY	2	2
E-tube connector QTY	0	0
E-tube port QTY	1	1
Multiple input	2 step	-(X)
	Hold	-(X)
Suspension switch	-	-
Mount position adjust	X	X
Average weight	66g/pc	66g/pc
Note		*User can use it for RD multishift

ARCHIVE

MTB Di2 spec. / Rear Derailleur

Series		XTR	XTR
Model no.		RD-M9050-SGS	RD-M9050-GS
Pulley cage		SGS	GS
Color		Series color	Series color
Rear speeds		11	11
Compatible chain		HG-X11	HG-X11
Top-Normal spring type	SHADOW RD+	X	X
Direct attachment (Conventional)		X	X
Direct mount compatible		X*	X*
Max. front difference		18T	10T
Total capacity		41T**	33T**
Low sprocket	Max.	40/42T***	40/42T***
	Min.	40T	40T
Top sprocket	Max.	11T	11T
	Min.	11T	11T
Fluoric coated link bushings		4	4
Pulley	G pulley bearing	Sealed Bearing	Sealed Bearing
	T pulley bearing	Sealed Bearing	Sealed Bearing
	Teeth	11	11
	Bolts material	Stainless steel	Stainless steel
	Sunken type pulley bolt	X	X
Bracket	Material	Aluminum	Aluminum
	Finish	Anodizing	Anodizing
B-axle	Hollow axle	X	X
	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
B-axle 2	Hollow axle	X	X
	Material	Aluminum	Aluminum
	Finish	-	-
Bracket body	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
P-axle	Material	Steel	Steel
	Finish	-	-
Plate body	Material	CFRP	CFRP
	Finish	Painted	Painted
Outer link	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Inner link	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Outer plate	Material	CFRP	CFRP
	Finish	Painted	Painted
Inner plate	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
E-tube port (QTY)		1	1
Average weight		295g	290g
Note		*w/o bracket spec available. ** The Di2 system limits cross chain to prevent a chain from getting loose. ***42T for 1x11 only	*w/o bracket spec available. ** The Di2 system limits cross chain to prevent a chain from getting loose. ***42T for 1x11 only

MTB Di2 spec. / Front Derailleur

Series		XTR	XTR	
Model no.		FD-M9050	FD-M9070	
Color	1	Series Color	Series Color	
	2	-	-	
Speeds	Front	3	2	
	Rear	11	11	
Compatible chain		HG-X11	HG-X11	
Action	Top Swing	-	-	
	Down Swing	X	X	
	Side Swing	-	-	
Mount	Clamp band	28.6mm	w/ SM-FD905-L,SM-FD905-H	w/ SM-FD905-L,SM-FD905-H
		31.8mm	w/ SM-FD905-L,SM-FD905-H	w/ SM-FD905-L,SM-FD905-H
		34.9mm	w/ SM-FD905-L,SM-FD905-H	w/ SM-FD905-L,SM-FD905-H
	BB plate	-	-	
	Without BB plate	w/SM-FD905-E	w/SM-FD905-E*	
	Direct mount	w/SM-FD905-D	w/SM-FD905-D*	
Chain line (mm)		50	48.8*	
Chain stay angle		66-69	66-69	
Top gear teeth		40T	38-34T	
Total capacity		18T	10T	
Applicable Top-Mid tooth difference		10T	-	
Link bushings		7	7	
Outer link	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Chain guide	Material	Aluminum	Aluminum	
	Finish	Nickel Plated	Nickel Plated	
E-tube port (QTY)		1	1	
Average weight		125g	112g	
Note			*Compatible with the special crankset which chain line is 3mm outboard. The special frame is required.	

ARCHIVE

MTB Di2 spec. / 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.

ARCHIVE

MTB Di2 spec. / System Information Display

Series	SHIMANO	
Model no.	SC-M9050	
Compatible system	EW-SD50	
Attachment position	Handle bar*	
Rear speeds	11	
Front speeds	1/2/3	
Communications	E-tube	
PC software available	X	
Adjust button	X	
Display detachable	-	
Display function	Gear indicator	X
	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 shift Mode change	X
E-tube port	QTY	3
Average weight		30g
Note		*2 Spec of clamp band diameter ϕ 31.8 and ϕ 35.

ARCHIVE

CITY TOURING/COMFORT Di2 spec. / 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-S505	SG-C6060-8R	SG-C6060-8V	SG-C6060-8C	SG-C6060-8D
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	Center Lock Type
	Recommended Model	BR-S700	BR-S700	BR-IM81 BR-C6000 BR-C3010 BR-C3000	-	-	BR-M395
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		-	-	-	-	-	-
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	3.3
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	1680g	1645g	1668g	-	-
Note							

CITY TOURING/COMFORT Di2 spec. / Internal Geared Hub

Series		NEXUS
Function name		Inter-8
Model no.		SG-C6060-8CD
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	-
	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)		3.7
P.C.D Left / Right. (mm)		92.6
Hub shell	Material	Aluminum
	Finish	Painted
Average weight		-
Note		

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CITY TOURING/COMFORT Di2 spec. / Motor Unit

Series	ALFINE
Model no.	MU-5705
Compatible internal geared hub	SG-S705 SG-S505 SG-C6060
Compatible speed	11/8-speed
Electric power connector	E-tube (EW-SD50)
Average weight	147g
Note	

ARCHIVE

CITY TOURING/COMFORT Di2 spec. / Shifting Switch

Series	ALFINE
Model no.	SW-5705
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-5705 SG-5505
Compatible brake lever	BL-5700
Average weight	44g
Note	

ARCHIVE

CITY TOURING/COMFORT Di2 spec. / Information Display

Series		ALFINE
Model no.		SC-5705
Compatible system		Di2(ALFINE only)
Attachement position		Handle Bar
Battery type		-
Charging for cycle computer		-
Rear speeds		8 / 11
Front speeds		-
Number of programable wheel size		-
Wheel size range		-
Remote switch		-
Communications		E-tube
Memory capacity		-
PC software available		-
Detachable		-
Display spec	Size(ViewArea)	32x11(mm)
	Font type	Segment
	Panel type	OLED
	Back light	-
	Touch panel	-
Display function	Gear indicator	X
	Speed	-
	Cadence	-
	Trip distance	-
	Odometer	-
	Heart rate	-
	Power	-
	Time/Clock	-
	Altitude/Slope	-
	Temperature	-
	Lap time	-
	Auto display start	X
	Display customizing	-
	Setting function	Unit setting
Language choice		-
Beep on/off		-
Changing data sampling rate		-
For Di2 system		Di2 battery indicator
	Adjust Indicator	X
	System diagnosis	X
	Multi shifting speed setting	-
	Speeds switching	-
	Saver reset (crash recovery mode)	-
	E-tube port	2 pcs
	Charging connector for built-in battery	1 pcs
	Compatible charger	SM-BCR2
	Power current Indicator	-
	Light on/off indicator	-
Assist mode display	-	
Regenerator mode display	-	
Average weight		-
Note		-

ROAD Di2 spec. / Shift/Brake Lever

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA
Model no.		ST-9070	ST-9071	ST-6870	ST-6871
Lever type		Dual Control Lever	TT/Triathlon Dual Control Lever	Dual Control Lever	TT/Triathlon Dual Control Lever
Shift lever specifications	Front speeds	2	2	2	2
	Rear speeds	11	11	11	11
	Flight Deck operational switch	-	-	-	-
Brake lever specifications	Reach adjust	X	X	X	X
	Clamp band (mm)	23.8 / 24.2	INNER DIA. 19.0 - 22.5	23.8 / 24.2	INNER DIA. 19.0 - 22.5
	SLR-EV	X	X	X	X
Bracket	Material	CFRP	CFRP	GFRP	CFRP
	Finish	-	-	-	-
Electric button	Material	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-
Lever	Material	CFRP	CFRP	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Anodized
E-tube connector (QTY)		0	2	0	2
E-tube port (QTY)		4	0	4	0
Port for remote sprinter shifter (QTY)		2	0	2	0
Average weight		240g/pair	128g/pair	303.2g/pair	148g/pair
Note					

ARCHIVE

ROAD Di2 spec. / Shift/Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO	
Model no.		ST-R785	
Color	1	Gray	
	2	-	
Shifter type		Dual Control Lever	
Shift lever specifications	Front speeds	2	
	Rear speeds	11	
	Flight Deck operational SW	-	
	E-tube connector (QTY)	0	
	E-tube port (QTY)	1 (each ST R/L)	
	Compatible RD type	Road 11speed	
	SL position adjust	-	
	Multiple input	2 step	-
		Hold	X
	Suspension switch	-	
Brake lever specifications	Lever size (Finger)	-	
	Brake hose (Kit)	SM-BH595B	
	Hose joint	Straight	
	Brake hose color (kit)	1	Black
		2	White
	Recommended brake caliper	BR-R785 BR-RS785	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral
	Reach adjust	Toolless	-
		Tool	X
	Funnel bleeding	X	
Free stroke adjust	X		
Servo wave mechanism	X		
Clamp band	Open clamp	-	
	Inner diameter	23.8-24.2	
Bracket	Material	Aluminum	
	Finish	Painted	
Brake lever	Material	Aluminum	
	Finish	Painted	
Shifter Lever body	Main	GFRP	
	Release	GFRP	
Master cylinder	Material	Aluminum	
	Finish	-	
Average weight		500g/pair	
Note			

ARCHIVE

ROAD Di2 spec. / Shifting Switch

Series	DURA-ACE	SHIMANO	SHIMANO	SHIMANO
Model no.	SW-9071	SW-R671	SW-R610	SW-R600
Switch type	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	DH Bar	DH Bar	Anywhere	Anywhere
Compatible EW	EW-SD50	EW-SD50	-	EW-SD50
E-tube connector (QTY)	2	2	0	1
Connector for remote sprinter shifter (QTY)	0	0	2	0
E-tube port (QTY)	0	0	0	0
Port for remote sprinter shifter (QTY)	0	0	0	0
Average weight	118g/pair	100g/pair	5.8g/pair	21g
Note				

ARCHIVE

ROAD Di2 spec. / Rear Derailleur

Series	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA
Model no.	RD-9070-SS	RD-6870-SS	RD-6870-GS	RD-6770-SS
Pulley cage	SS	SS	GS	SS
Rear speeds	11	11	11	10
Max front difference	16T	16T	16T	16T
Total capacity	33T	33T	37T	33T
Max. low sprocket	28T	28T	32T	28T
Min. low sprocket	23T	23T	28T	23T
Max. top sprocket	14T	14T	12T	12T
Min. top sprocket	11T	11T	11T	11T
Riveted adapter available	-	-	-	-
Direct attachment	X	X	X	X
Fluoric coated link bushing	4	4	4	4
11T pulley	X	X	X	X
Sealed bearing guide pulley	X	X	X	-
Sealed bearing tension pulley	X	X	X	X
Bracket body	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted
Plate body	Material	CFRP	CFRP	CFRP
	Finish	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted
Inner link	Material	Aluminum	Steel	Steel
	Finish	Anodized	Painted	Painted
Outer plate	Material	CFRP	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Inner plate	Material	CFRP	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Average weight	217g	257g	268g	270g
Note				

ARCHIVE

ROAD Di2 spec. / Front Derailleur

Series		DURA-ACE	ULTEGRA	ULTEGRA
Model no.		FD-9070-F	FD-6870-F	FD-6770-F
Color	1	Series Color	Series Color	Series Color
	2	-	-	-
Speeds	Front	2	2	2
	Rear	11	11	10
Compatible chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG 10-speed
Action	Top Swing	-	-	-
	Down Swing	X	X	X
Mount	Clamp Band1	-	-	-
	Clamp Band2	-	-	-
	Clamp Band3	-	-	-
	Brazed-On	X	X	X
Chain line (mm)		43.5	43.5	43.5
Chain stay angle		61-66°	61-66°	61-66°
Top gear teeth		50-56T	46-53T	50-56T
Total capacity		16T	16T	16T
Link bushings		4	4	4
Front clamp band	Material	-	-	-
	Finish	-	-	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted
Outer link	Material	CFRP	Resin	Aluminum
	Finish	IP	Painted	Painted
Inner link	Material	Titanium	Steel	Steel
	Finish	-	Plated	Plated
Chain guide	Material	Aluminum	Steel	Steel
	Finish	Nickel Plated	Chrome Plated	Plated
Average weight		110g	138.5g	160g
Note				

ARCHIVE

ROAD Di2 spec. / Front Derailleur (Adapter)

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

ARCHIVE

ROAD Di2 spec. / Wireless Unit

Series		SHIMANO
Model no.		SM-EWW01
Wireless system		ANT private*
Number of receptors		2
Compatible system		E-tube system (9070, 6870, 6770, or future model)
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.

ARCHIVE

GENERAL Di2 spec. / Electric Wire

Series	SHIMANO	SHIMANO
Model no.	EW-SD50	EW-SD50-I
Type	For External routing	For Built-in routing
Average weight	-	-
Note		

ARCHIVE

GENERAL Di2 spec. / Cord Cover

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

ARCHIVE

GENERAL Di2 spec. / 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
Average weight	-	-
Note		

ARCHIVE

GENERAL Di2 spec. / Junction-A

Series	DURA-ACE	DURA-ACE	ULTEGRA
Model no.	SM-EW90-A	SM-EW90-B	SM-EW67-A-E
E-tube port (pcs)	3	5	1
E-tube connector (pcs)	0	0	2
Charging port (pcs)	1	1	-
Compatible head display unit	-	-	-
Wireless system	-	-	-
Average weight	-	-	-
Note			

ARCHIVE

GENERAL Di2 spec. / Junction-B

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	SM-JC40	SM-JC41	EW-JC200
E-tube port QTY	4	4	2
Specification	4 connectors type of junction	4 connectors type of junction	2 connectors type of junction
Average weight	-	-	-
Note	For External spec (fixed on frame with screw)	For built-in type	

ARCHIVE

GENERAL Di2 spec. / Battery

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	SM-BTR2-1	SM-BTR2-2	SM-BTR1 type1	SM-BTR1 type2
Type	Built-in	Built-in	External	External
Compatible charger	SM-BCR2	SM-BCR2	SM-BCR1	SM-BCR1
Average weight	-	-	-	-
Note	With recycle marks	Without recycle mark	With recycle mark	Without recycle mark

ARCHIVE

GENERAL Di2 spec. / Battery Mount

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	SM-BMR2-L	SM-BMR2-S	SM-BMR2-I
Specification	Long size battery mount	Short size battery mount	Long size battery mount
Wire routing	External	External/Inter	Internal
Compatible EW	EW-SD50	EW-SD50	EW-SD50
Average weight	-	-	-
Note			

ARCHIVE

GENERAL Di2 spec. / Battery Case ^{spec}

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/unction spec include one special cable for connecting battery and junction

ARCHIVE

GENERAL Di2 spec. / Battery Charger

Series	SHIMANO	SHIMANO
Model no.	SM-BCR2	SM-BCR1
Compatible battery	SM-BTR2	SM-BTR1
Charging cord	Including SM-BCR2	SM-BCC1
Average weight	-	-
Note	PC linkage device with limited function	

ARCHIVE

GENERAL Di2 spec. / PC Linkage Device

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

ARCHIVE

GENERAL Di2 spec. / 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						

ARCHIVE

GENERAL Di2 spec. / Battery Cable

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						

ARCHIVE

E-BIKE / Switch Unit

Series	SHIMANO	SHIMANO
Model no.	SW-E6000	SW-E6000
Color	1	Gray
	2	Black
	3	-
Usage	For assist	* For SEIS shift
Right SW	-	X
Left SW	X	-
Switch numbers (pcs)	3	3
E-tube connector numbers(pcs)	1	1
E-tube port numbers (pcs)	-	-
System On-Off	-	-
Assist Mode Change	X	-
Display change	X	X
Automatic/Manual Change	-	X
Light On-Off	* X	-
Manual shifting switch	-	* X
Multiple input	-	* X
Compatible SC	SC-E6000 / E6010	SC-E6000 / E6010
Average weight	-	-
Note	* Set by E-tube project	* Set by E-tube project

ARCHIVE

E-BIKE / Cycle Computer

Series		SHIMANO	SHIMANO
Model no.		SC-E6010	SC-E6000
Color	1	Black	Gray
	2	-	-
	3	-	-
Mount position (center on handlebar)		X	X
Ports number for EW-SD50 (pcs)		3	3
Back Light		X	X
Beep		X	X
Display Detachable		X	X
Reset button		-	-
Inside battery		X	X
System on/off button		X	-
Light on/off button		X	-
Auto Start & Auto Stop		-	-
Contents of Display	Clock	X	X
	Assist mode display	X	X
	Battery charge level	X	X
	Current Speed	X	X
	Gear Position Display	*X (8/11spd)	*X (8/11spd)
	Start mode	X	X
	Automatic shift mode	X	X
	Maximum speed (MAX)	** X	** X
	Average speed (AVG)	** X	** X
	Trip distance (DST)	X	X
	Trip time (TIME)	** X	** X
	Odometer (ODO)	X	X
	Estimated range (RANGE)	X	X
	Range overview	X	X
	Assist power indicator	X	-
Error Message	X	X	
Setting menu	Trip Distance reset	X	X
	Odometer reset	-	-
	km / mile	X	X
	Clock adjustment	X	X
	Back Light on/off	X	X
	Back light setting	X	-
	Beep on/off	X	X
	Language	6 languages	6 languages
Setting Clear	X	X	
Average weight		-	-
Note	* In case of SEIS ** Option by E-tube project	* In case of SEIS ** Option by E-tube project	

E-BIKE / Drive Unit

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	DU-E6001	DU-E6010	DU-E6050
Color	1	Black	Black
	2	Gray	-
	3	-	-
Compatible Brake type	V-BRAKE, Roller brake, Disc brake	Coaster brake	V-BRAKE, Roller brake, Disc brake
Motor type	Brushless motor	Brushless motor	Brushless motor
Position	Mid ship	Mid ship	Mid ship
Compatible Wheel Size	26'-29'	26'-29'	26'-29'
Maximum limit Power (Watt)	500	500	500
Maximum Rated Power (Watt)	250	250	250
Maximum torque (Nm)	50	50	50
Rated Voltage	DC 36V	DC 36V	DC 36V
Maximum Assist ratio (%)	HIGH	230	230
	NORMAL	150	150
	ECO	70	70
Power supply for front light	* X	* X	* X
Power supply for rear light	* X	* X	* X
Communication	E-tube	E-tube	E-tube
Chain case compatible	X	X	X
Torque sensor	X	X	X
Crank arm position sensor	X	X	X
Bike speed sensor	X	X	X
Cadence sensor	X	X	X
Walk assist function	X	X	X
Automatic function	X	X	X
Compatible BB type	Square type	Square type	Square type
Average weight	-	-	-
Note	* By using SM-DUE01	* By using SM-DUE01	* By using SM-DUE01 Speed Limit: 20mph

ARCHIVE

E-BIKE / Drive Unit Cover

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	SM-DUE60	SM-DUE60-45	SM-DUE60-A	SM-DUE60-45A
Color	1	Gray	Gray	Gray
	2	Black	Black	Black
	3	-	-	-
Available DU angle	0 degree	45 degrees	0 degree	45 degrees
Average weight	-	-	-	-
Note			For internal cable routing	For internal cable routing

ARCHIVE

E-BIKE / Adapter for Light

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

ARCHIVE

E-BIKE / Crankarm

Series	SHIMANO	
Model no.	FC-E6000	
Color	1	Gray
	2	Black
	3	-
Q factor (mm)	189.6	
Chain case compatible	X	
Crank arm length (mm)	175	X
	170	X
	Others	-
BB type	Square type	
Average weight	-	
Note		

ARCHIVE

E-BIKE / Chainring

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-CRE60	SM-CRE60	SM-CRE60	SM-CRE60	SM-CRE60	SM-CRE60
Color	1	Black / Silver	Black / Silver	Black / Silver	Black / Silver	Black / Silver	Black / Silver
	2	Black / Gray	Black / Gray	-	Black / Gray	Black / Gray	-
	3	-	-	-	-	-	-
Gear speed		1	1	1	1	1	1
Rear speed	11/10/9-speed	X	X	X	X	X	X
Chain ring teeth	44T	X	X	X	-	-	-
	38T	-	-	-	X	X	X
	Others	-	-	-	-	-	-
Chain guard type	Double	X	-	-	X	-	-
	Single	-	X	-	-	X	-
	W/o CG	-	-	X	-	-	X
Chain ring fixing lock nut		Included in DU	Included in DU	Included in DU	Included in DU	Included in DU	Included in DU
Chain ring cover outer diameter (mm)		-	-	95.5	-	-	95.5
Chain line (mm)		46.5	46.5	46.5	46.5	46.5	46.5
Chain case compatible		-	X	X	-	X	X
Chain ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spider arm		-	-	-	-	-	-
Average weight		-	-	-	-	-	-
Note		-	-	-	-	-	-

ARCHIVE

E-BIKE / Chain

Series	SHIMANO	SHIMANO
Model no.	CN-E6090-10	CN-E6070-9
Type	HG-X 10-speed	HG 9-speed
Pin link plate	SIL-TEC	Gray
Roller link plate	SIL-TEC	Gray
Roller	-	-
Chromizing treatment link pin	X	X
Hollow pin	-	-
Average weight (114 links)	276g	276g
Note		

ARCHIVE

E-BIKE / Battery

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

ARCHIVE

E-BIKE / Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BM-E6000-A	BM-E6000-B	BM-E6010	SM-BME60-A	SM-BME60-B	SM-BME61
Color	1	Gray	Gray	-	Gray	Gray	-
	2	Black	Black	Black	-	-	Black
	3	-	-	-	-	-	-
Position		Rear carrier	Rear carrier	Down tube	Rear carrier	Rear carrier	Down tube
Charging port		X	X	X	-	-	-
Lock system		-	-	-	-	-	-
Key hole		X	X	X	X	X	X
System on/off switch		-	-	-	-	-	-
Connecting cable with Drive unit		X	X	X	X	X	X
Compatible battery		BT-E6000	BT-E6000	BT-E6010	BT-E6000	BT-E6000	BT-E6010
Average weight		-	-	-	-	-	-
Note							

ARCHIVE

E-BIKE / Battery Charger

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	EC-E6000-1	EC-E6000-2	EC-E6000-4	EC-E6000-6	EC-E6000-7	SM-BCE60
Color	1	Standard	Standard	Standard	Standard	Standard
	2	-	-	-	-	-
	3	-	-	-	-	-
Typical example country / Region	Europe	USA / Canada	Australia / New Zealand	UK	Korea	Europe
Compatible battery	BT-E6000/BT-E6010	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	AC100V-240V 50-60Hz
CE standard	X	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	*4
Time to 80% charge (hour)	2	2	2	2	2	3.2
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	0-40°C
Storage temperature	-20-60°C	-20-60°C	-20-60°C	-20-60°C	-20-60°C	-20-60°C
Error signal	X	X	X	X	X	X
Adapter for battery connector	X	X	X	X	X	-
Compatible AC power cable	-	-	-	-	-	SM-BCC1
Built in AC cable	X	X	X	X	X	-
Built in AC cable length (m)	1	2	1	1	1	-
Average weight	-	-	-	-	-	-
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	*In case of BT-E6000 & BT-E6010

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E-BIKE / 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)

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