

ARCHIVE

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SHIMANO

2013-2014

SPEC. HANDBOOK

- MTB / TREKKING
- ROAD
- COMFORT
- GENERAL
- Di2 Spec

REMARKS Mark X : available / Mark - : not available

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Printed in Japan

Word definitions

BB	Bottom bracket
BC	Brake cable
BL	Brake lever
BR	Brake caliper
BT	Battery
CB	Coaster brake
CJ	Cassette joint
CN	Chain
CP	Spoke protector
CS	Cassette sprocket
CT	Chain tensioner
DH	Hub dynamo
EW	Electric wire
FC	Front chainwheel
FD	Front derailleur
FH	Freehub
HB	Front hub
HP	Head parts
HRB	Hub roller brake
ID	CI-DECK
I-spec	Integration mounting system of brake and shift lever
LP	Light
MF	Multiple freewheel
MU	Motor unit
O.L.D.	Over locknut dimension
P.C.D.	Pitch circle diameter
PD	Pedal
PM	Power modulator
QR	Quick release
RD	Rear derailleur
SB	Revo shifter integrated with brake lever
SC	Cycle computer
SF	Single free
SG	Internal geared hub
SL	Shift lever
SPD	Shimano pedaling dynamics
SPD-SL	Shimano pedaling dynamics-SL
ST	Dual control lever / Shift lever integrated with brake lever
SW	Switch
WH	Wheel

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Shift Lever

Series		XTR	XTR	XTR	XTR	SAINT	SAINT
Model no.		SL-M980-A-L	SL-M980-B-IL	SL-M980-A-R	SL-M980-B-IR	SL-M820	SL-M820-B-I
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus
Front speeds		2/3	2/3	-	-	-	-
Rear speeds		-	-	10	10	10	10
2/3 mode converter		X	X	-	-	-	-
Max. multiple shifts (Main lever/ rear)		-	-	4	4	4	4
Compatible RD Type		-	-	MTB 10-speed RD	MTB 10-speed RD	MTB 10-speed RD	MTB 10-speed RD
I-spec compatible		-	X**	-	X**	-	X**
SL position adjust		-	X	-	X	-	X
Release function	Multi release	X	X	X	X	X*	X*
	Instant release	X	X	X	X	X	X
	2-Way release	X	X	X	X	X	X
SL cable adjust		X (CFRP)	X (CFRP)	X (CFRP)	X (CFRP)	X(CFRP)	X (CFRP)
Optical Gear Display	with	-	-	-	-	-	-
	with (removable)	-	-	-	-	-	-
	without	X	X	X	X	X	X
Multi-Bearing construction		4	4	4	4	4	4
SL outer casing		OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed
Lever body	Main	Aluminum (Anodized)	Aluminum (Anodized)	Aluminum (Anodized)	Aluminum (Anodized)	Aluminum (Painted)	Aluminum (Painted)
	Release	Steel & CFRP	Steel & CFRP	Steel & CFRP	Steel & CFRP	Steel & GFRP	Steel & GFRP
Average weight		104g	98g	99g	103g	123g	114g
Note			**I-spec B-type		**I-spec B-type	*(pull: single, push: double)	*(pull: single, push: double) **I-spec B-type

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		SL-M780-B-IL	SL-M780-B-IR	SL-M780-L	SL-M780-R	SL-M770-A-L	SL-M770-A-R
Color	1	Black	Black	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus
Front speeds		2/3	-	2/3	-	3	-
Rear speeds		-	10	-	10	-	9
2/3 mode converter		X	-	X	-	-	-
Max. multiple shifts (Main lever/ rear)		-	4	-	4	-	4
Compatible RD Type		-	MTB 10-speed RD	-	MTB 10-speed RD	-	MTB 9-speed RD
I-spec compatible		X**	X**	-	-	-	-
SL position adjust		X	X	-	-	-	-
Release function	Multi release	X	X	X	X	-	-
	Instant release	X	X	X	X	X	X
	2-Way release	X	X	X	X	X	X
SL cable adjust		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	2	2
SL outer casing		OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed
Lever body	Main	Aluminum (Painted)	Aluminum (Painted)	Aluminum (Painted)	Aluminum (Painted)	Aluminum (Painted)	Aluminum (Painted)
	Release	Steel & GFRP	Steel & GFRP	Steel & GFRP	Steel & GFRP	Steel & GFRP	Steel & GFRP
Average weight		106g	114g	255g/pair	255g/pair	255g/pair	255g/pair
Note		**I-spec B-type	**I-spec B-type			No position adjust w/o optical gear display option available	No position adjust w/o optical gear display option available

Shift Lever

Series		DEORE XT	DEORE XT	SLX	SLX	SLX	SLX
Model no.		SL-T780-L	SL-T780-R	SL-M670-B-IL	SL-M670-B-IR	SL-M670-L	SL-M670-R
Color	1	Black	Black	Series color	Series color	Series color	Series color
	2	Silver	Silver	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus
Front speeds		3	-	2/3	-	2/3	-
Rear speeds		-	10	-	10	-	10
2/3 mode converter		-	-	X	-	X	-
Max. multiple shifts (Main lever/ rear)		-	4	-	3	-	3
Compatible RD Type		-	MTB 10-speed RD	-	MTB 10-speed RD	-	MTB 10-speed RD
I-spec compatible		-	-	X**	X**	-	-
SL position adjust		-	-	X	X	-	-
Release function	Multi release	X	X	-	-	-	-
	Instant release	X	X	-	-	-	-
	2-Way release	X	X	X	X	X	X
SL cable adjust		X	X	X	X	X	X
Optical Gear Display	with	X	X	-	-	-	-
	with (removable)	-	-	-	-	X	X
	without	-	-	X	X	X	X
Multi-Bearing construction		2	2	-	-	-	-
SL outer casing		OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed
Lever body	Main	Aluminum (Painted)	Aluminum (Painted)	Steel & GFRP	Steel & GFRP	Steel & GFRP	Steel & GFRP
	Release	Steel & GFRP	Steel & GFRP	Steel & GFRP	Steel & GFRP	Steel & GFRP	Steel & GFRP
Average weight				116g	121g	265g/pair	265g/pair
Note				**I-spec B-type	**I-spec B-type		

Series		DEORE LX	DEORE LX	ZEE	DEORE	DEORE	DEORE
Model no.		SL-T670-L	SL-T670-R	SL-M640	SL-M610-L	SL-M610-R	SL-M610-IL
Color	1	Black	Black	Series color	Series color	Series color	Series color
	2	Silver	Silver	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus
Front speeds		3	-	-	2/3	-	2/3
Rear speeds		-	10	10	-	10	-
2/3 mode converter		-	-	-	X	-	X
Max. multiple shifts (Main lever/ rear)		-	3	3	-	3	-
Compatible RD Type		-	MTB 10-speed RD	MTB 10-speed RD	-	MTB 10-speed RD	-
I-spec compatible		-	-	-	-	-	X*
SL position adjust		-	-	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	X	X	X	X	X	X
SL cable adjust		X	X	X	X	X	X
Optical Gear Display	with	X	X	-	X	X	-
	with (removable)	-	-	-	-	-	-
	without	-	-	X	-	-	X
Multi-Bearing construction		-	-	-	-	-	-
SL outer casing		OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed
Lever body	Main	Steel & GFRP	Steel & GFRP	Steel & GFRP	Steel & GFRP	Steel & GFRP	Steel & GFRP
	Release	Steel & GFRP	Steel & GFRP	Steel & GFRP	Steel & GFRP	Steel & GFRP	Steel & GFRP
Average weight		260g/pair	260g/pair	127g	130g	135g	116g
Note							Compatible with I-spec BL* *Minor change of I-spec

Shift Lever

Series		DEORE	DEORE	DEORE	DEORE	DEORE	ALIVIO	
Model no.		SL-M610-IR	SL-T610-L	SL-T610-R	SL-M590-L	SL-M590-R	SL-M430-L	
Color	1	Series color	Black	Black	Series color	Series color	Series color	
	2	-	Silver	Silver	-	-	-	
	3	-	-	-	-	-	-	
Shifter type		Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	
Front speeds		-	3	-	3	-	3	
Rear speeds		10	-	10	-	9	-	
2/3 mode converter		-	-	-	-	-	-	
Max. multiple shifts (Main lever/ rear)		3	-	3	-	3	-	
Compatible RD Type		MTB 10-speed RD	-	MTB 10-speed RD	-	MTB 9-speed RD	-	
I-spec compatible		X*	-	-	-	-	-	
SL position adjust		-	-	-	-	-	-	
Release function	Multi release	-	-	-	-	-	-	
	Instant release	-	-	-	-	-	-	
	2-Way release	X	X	X	X	X	X	
SL cable adjust		X	X	X	X	X	X	
Optical Gear Display	with	-	X	X	X	X	X	
	with (removable)	-	-	-	-	-	-	
	without	X	-	-	-	-	-	
Multi-Bearing construction		-	-	-	-	-	-	
SL outer casing		OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP40	
Lever body	Main	Steel & GFRP	Steel & GFRP	Steel & GFRP	Steel & Resin	Steel & Resin	Steel & Resin	
	Release	Steel & GFRP	Steel & GFRP	Steel & GFRP	Steel & Resin	Steel & Resin	Steel & Resin	
Average weight		121g	134g	139g				
Note		Compatible with I-spec BL* *Minor change of I-spec						

Series		ALIVIO	ACERA	ACERA	ACERA	ACERA	ALTUS
Model no.		SL-M430-R	SL-M390-L	SL-M390-R	SL-M360-L	SL-M360-R	SL-M370-L
Color	1	Series color	Series color	Series color	Series color	Series color	Black
	2	-	-	-	-	-	Silver
	3	-	-	-	-	-	-
Shifter type		Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus
Front speeds		-	3	-	3	-	3
Rear speeds		9	-	9	-	8	-
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		3	-	3	-	3	-
Compatible RD Type		MTB 9-speed RD	-	MTB 9-speed RD	-	MTB 8-speed RD	-
I-spec compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	X	-	-	-	-	-
SL cable adjust		X	X	X	X	X	X
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Lever body	Main	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
	Release	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
Average weight							
Note							

Shift Lever

Series		ALTUS	Non-Series	Non-Series	Non-Series	Tourney	Tourney
Model no.		SL-M370-R	SL-M310-L	SL-M310-8R	SL-M310-7R	SL-RS47-L	SL-RS47-8R
Color	1	Black	Series color	Series color	Series color	Series color	Series color
	2	Silver	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	REVOSHIFT	REVOSHIFT
Front speeds		-	3	-	-	3	-
Rear speeds		9	-	8	7	-	8
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		3	-	3	3	-	7
Compatible RD Type		MTB 9-speed RD	-	MTB 8-speed RD	MTB 7-speed RD	-	MTB 8-speed RD
I-spec compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
SL cable adjust		X	X	X	X	X	X
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SIS40	OT-SIS40
Lever body	Main	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	-	-
	Release	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	-	-
Average weight		-	-	-	-	-	-
Note						OGD frame :Chrome plating	OGD frame :Chrome plating

Series		Tourney	Tourney	Tourney	Tourney	Tourney	Tourney
Model no.		SL-RS47-7R	SL-RS45-L	SL-RS45-8R	SL-RS45-7R	SL-RS45-6R	SL-RS36-L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front speeds		-	3	-	-	-	3
Rear speeds		7	-	8	7	6	-
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		6	-	7	6	5	-
Compatible RD Type		MTB 7-speed RD	-	MTB 8-speed RD	MTB 7-speed RD	MTB 6-speed RD	-
I-spec compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
SL cable adjust		X	X	X	X	X	X
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Lever body	Main	-	-	-	-	-	-
	Release	-	-	-	-	-	-
Average weight		-	-	-	-	-	-
Note		OGD frame :Chrome plating					w/ CI-DECK spec is available as option

Shift Lever

Series		Tourney	Tourney	Tourney	Tourney	Tourney	Tourney
Model no.		SL-RS36-LN	SL-RS36-7R	SL-RS36-6R	SL-RS35-L	SL-RS35-LN	SL-RS35-7R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front speeds		3 (Friction)	-	-	3	3 (Friction)	-
Rear speeds		-	7	6	-	-	7
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		-	6	5	-	-	6
Compatible RD Type		-	MTB 7-speed RD	MTB 6-speed RD	-	-	MTB 7-speed RD
I-spec compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
SL cable adjust		X	-	-	X	X	-
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Lever body	Main	-	-	-	-	-	-
	Release	-	-	-	-	-	-
Average weight		-	-	-	-	-	-
Note		w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option

Series		Tourney	Tourney	Tourney	Tourney	Tourney	Tourney
Model no.		SL-RS35-6R	SL-RS34-LN	SL-RS34-6R	SL-RS34-7R	SM-RS34-L	SM-RS34-R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	-	-
Front speeds		-	3 (Friction)	-	-	-	-
Rear speeds		6	-	6	7	-	-
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		5	-	5	6	-	-
Compatible RD Type		MTB 6-speed RD	-	MTB 6-speed RD	MTB 7-speed RD	-	-
I-spec compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
SL cable adjust		-	X	-	-	-	-
Optical Gear Display	with	X	X	X	X	-	-
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	-	-
Lever body	Main	-	-	-	-	-	-
	Release	-	-	-	-	-	-
Average weight		-	-	-	-	-	-
Note		w/ CI-DECK spec is available as option	with LED position light, Electric wire length 160mm (both black /grey color spec available) / for Japanese market only	with LED position light, Electric wire length 200mm (both black /grey color spec available) / for Japanese market only, with CI-DECK spec available	with LED position light, Electric wire length 200mm (both black /grey color spec available) / for Japanese market only, with CI-DECK spec available	with LED position light, Electric wire length 160mm (both black /grey color spec available) / for Japanese market only	with LED position light, Electric wire length 200mm (both black /grey color spec available) / for Japanese market only

Shift Lever

Series		Tourney	Tourney	Tourney	Tourney	Tourney	Tourney
Model no.		SL-TX50-L	SL-TX50-LN	SL-TX50-7R	SL-TX50-6R	SL-TX30-LN	SL-TX30-7R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus
Front speeds		3	3 (Friction)	-	-	3 (Friction)	-
Rear speeds		-	-	7	6	-	7
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		-	-	6	5	-	6
Compatible RD Type		-	-	MTB 7-speed RD	MTB 6-speed RD	-	MTB 7-speed RD
I-spec compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
SL cable adjust		X	X	-	-	X	-
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Lever body	Main	Resin	Resin	Resin	Resin	Resin	Resin
	Release	-	-	Resin	Resin	-	Resin
Average weight		-	-	-	-	-	-
Note							

Series		Tourney	Tourney	Tourney	Tourney	Tourney
Model no.		SL-TX30-6R	SL-TZ20-LN	SL-TZ20-7R	SL-TZ20-6R	SL-FT55-7R
Color	1	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-
	3	-	-	-	-	-
Shifter type		Thumb Shifter Plus	Thumb Shifter	Thumb Shifter	Thumb Shifter	Thumb shifter Plus
Front speeds		-	3 (Friction)	-	-	-
Rear speeds		6	-	7	6	7
2/3 mode converter		-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		5	-	6	5	6
Compatible RD Type		MTB 6-speed RD	-	MTB 7-speed RD	MTB 6-speed RD	MTB 7-speed RD
I-spec compatible		-	-	-	-	-
SL position adjust		-	-	-	-	-
Release function	Multi release	-	-	-	-	-
	Instant release	-	-	-	-	-
	2-Way release	-	-	-	-	-
SL cable adjust		-	-	-	-	-
Optical Gear Display	with	X	X	X	X	X
	with (removable)	-	-	-	-	-
	without	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-
SL outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Lever body	Main	Resin	Resin	Resin	Resin	Resin
	Release	Resin	-	-	-	Resin
Average weight		-	-	-	-	-
Note						

Brake Lever

Standard

Series		DXR	DEORE XT	DEORE LX	DEORE	DEORE	Non-Series
Model no.		BL-MX70	BL-T780-B	BL-T670-B	BL-T610	BL-T611	BL-M421
Color	1	Series color	Black	Black	Black	Black	Black
	2	-	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	-	-	-	-	-	-
	Roller brake	-	-	-	-	-	-
Recommended power modulator	V-BRAKE	-	SM-PM70	SM-PM70	-	SM-PM70	-
	Mechanical disc brake (MTB)	-	SM-PM50	SM-PM50	-	SM-PM50	-
Clamp band	Open clamp band	-	X	X	X	X	-
	I-spec compatible	-	X**	X**	X**	X**	-
Internal bumper stop		-	X	X	X	X	-
Lever size (Finger)		2	3	3	2	3	2
Brake cable type		T-type	T-type	T-type	Ttype	Ttype	T-type
Reach adjust		X	X	X	X	X	X
Cable adjust		X	X	X	X	X	X
Cable adjust type		one hand	one hand	Two Hand	Two Hand	Two Hand	two hand
Average weight		175g	196.6g	211.2g	205g	211g	-
Note		For BMX	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	

Brake Lever

Disc Brake

Series		XTR	XTR	SAINT	DEORE XT	DEORE XT	SLX
Model no.		BL-M987	BL-M988-B	BL-M820-B	BL-M785-B	BL-T785-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	3	2
Color	1	Series color	Series color	Series color	Black	Black	Series color
	2	-	-	-	Silver	Silver	-
	3	-	-	-	-	-	-
Brake hose (Kit)		SM-BH90-SBM	SM-BH90-SB	SM-BH90-SBLS	SM-BH90-SB	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-M987	BR-M985	BR-M820	BR-M785	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	X
	Tool	X	-	-	-	-	-
Free stroke adjust		-	X	X	X	-	-
Servo wave mechanism		-	X	X	X	-	X
Clamp band	Open clamp	X	X	X	X	X	X
	I-spec	X*	X*	X*	X*	X*	X*
Average weight			195g	103.2g	117.8g	120.45g	118.2g
Note		J-Kit spec available *I-spec B-type	J-Kit spec available *I-spec B-type	*I-spec B-type	J-Kit spec available *I-spec B-type	J-Kit spec available *I-spec B-type	J-Kit spec available *I-spec B-type

Brake Lever

Disc Brake

Series		DEORE LX	ZEE	DEORE	DEORE	Non-Series	Non-Series
Model no.		BL-T675-B	BL-M640-B	BL-M615	BL-T615	BL-M505	BL-M445
Brake type		Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc brake	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake
Lever size (Finger)		3	2	2	3	2	2
Color	1	Black	Series color	Black	Black	Black	Black
	2	Silver	-	-	Silver	Silver	Silver
	3	-	-	-	-	White	White
Brake hose (Kit)		SM-BH90-SS	SM-BH90-SBS	SM-BH90-SS	SM-BH59	SM-BH59	SM-BH59
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	White	White	White	White	White
Recommended brake caliper		BR-T675	BR-M640	BR-M615	BR-T615	BR-M446	BR-M446
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		X	X	X	X	-	X
Reach adjust	Toolless	X	-	-	-	-	-
	Tool	-	X	X	X	X	X
Free stroke adjust		-	-	-	-	-	-
Servo wave mechanism		-	X	X	-	-	-
Clamp band	Open clamp	X	X	X	X	X	-
	I-spec	X*	X*	X*	X*	-	-
Average weight		126g	116.7g			-	-
Note		*I-spec B-type	*I-spec B-type	*I-spec B-type	*I-spec B-type		

Series		Non-Series	Non-Series
Model no.		BL-T445	BL-M395
Brake type		Hydraulic Disc-brake	Hydraulic Disc-brake
Lever size (Finger)		3	2
Color	1	Black	Black
	2	Silver	White
	3	White	-
Brake hose (Kit)		SM-BH59	SM-BH59
Hose joint		Straight	Straight
Brake hose color (kit)	1	Black	Black
	2	White	-
Recommended brake caliper		BR-M446	BR-M395
Oil		SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		X	X
Reach adjust	Toolless	-	-
	Tool	X	X
Free stroke adjust		-	-
Servo wave mechanism		-	-
Clamp band	Open clamp	-	-
	I-spec	-	-
Average weight		-	-
Note			

Shift/Brake Lever

Shift Lever

Series		DEORE	DEORE	ALIVIO	ALIVIO	ACERA	ACERA
Model no.		ST-M590-L	ST-M590-R	ST-M430-L	ST-M430-R	ST-M390-L	ST-M390-R
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
Shifter type		Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus
Front speeds		3	-	3	-	3	-
Rear speeds		-	9	-	9	-	9
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		-	3	-	3	-	3
Compatible RD type		-	MTB 9-speed RD	-	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	X	X	-	-
SL cable adjust		X	X	X	X	X	X
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL outer casing		OT-SP41 sealed	OT-SP41 sealed	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Lever body	Main	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
	Release	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
Average weight		238g	238g	-	-	-	-
Note							

Series		ACERA	ACERA	ALTUS	ALTUS	Non-Series	Non-Series
Model no.		ST-M360-L2A	ST-M360-8R2A	ST-M370-L	ST-M370-R	ST-M310-L2	ST-M310-L4
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
Shifter type		Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus
Front speeds		3	-	3	-	3	3
Rear speeds		-	8	-	9	-	-
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		-	3	-	3	-	-
Compatible RD type		-	MTB 8-speed RD	-	MTB 9-speed RD	-	-
I-spec compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
SL cable adjust		X	X	X	X	X	X
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Lever body	Main	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
	Release	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
Average weight		-	-	-	-	-	-
Note							

Shift/Brake Lever

Shift Lever

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.		ST-M310-8R2	ST-M310-8R4	ST-EF65-L2	ST-EF65-L4	ST-EF65-9R2	ST-EF65-9R4
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
Shifter type		Rapidfire Plus	Rapidfire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus
Front speeds		-	-	3	3	-	-
Rear speeds		8	8	-	-	9	9
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		3	3	-	-	3	3
Compatible RD type		MTB 8-speed RD	MTB 8-speed RD	-	-	MTB 9-speed RD	MTB 9-speed RD
I-spec compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
SL cable adjust		X	X	X	X	X	X
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Lever body	Main	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
	Release	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
Average weight		-	-	-	-	-	-
Note							

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.		ST-EF65-8R2	ST-EF65-8R4	ST-EF65-7R2	ST-EF65-7R4	ST-EF51-L (2A)	ST-EF51-L (4A)
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
Shifter type		EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus
Front speeds		-	-	-	-	3	3
Rear speeds		8	8	7	7	-	-
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		3	3	3	3	-	-
Compatible RD type		MTB 8-speed RD	MTB 8-speed RD	MTB 7-speed RD	MTB 7-speed RD	-	-
I-spec compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
SL cable adjust		X	X	X	X	X	X
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Lever body	Main	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
	Release	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
Average weight		-	-	-	-	-	-
Note							

Shift/Brake Lever

Shift Lever

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.		ST-EF51-9R(2A)	ST-EF51-9R (4A)	ST-EF51-8R (2A)	ST-EF51-8R (4A)	ST-EF51-7R (2A)	ST-EF51-7R (4A)
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
Shifter type		EZ-fire Plus	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
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		3	3	3	3	3	3
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
I-spec compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
SL cable adjust		-	-	-	-	-	-
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Lever body	Main	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
	Release	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
Average weight		-	-	-	-	-	-
Note							

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.		ST-EF51-AL(2A)	ST-EF51-AL(4A)	ST-EF51-A9R(2A)	ST-EF51-A9R (4A)	ST-EF51-A8R(2A)	ST-EF51-A8R (4A)
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
Shifter type		EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus
Front speeds		3	3	-	-	-	-
Rear speeds		-	-	9	9	8	8
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		-	-	3	3	3	3
Compatible RD type		-	-	MTB 9-speed RD	MTB 9-speed RD	MTB 8-speed RD	MTB 8-speed RD
I-spec compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
SL cable adjust		X	X	-	-	-	-
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Lever body	Main	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
	Release	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin
Average weight		-	-	-	-	-	-
Note							

Shift/Brake Lever

Shift Lever

Series		Non-Series	Non-Series	Tourney	Non-Series	Tourney	Tourney
Model no.		ST-EF51-A7R(2A)	ST-EF51-A7R (4A)	ST-EF40-L (2S)	ST-EF40-8R (2S)	ST-EF40-7R (2S)	ST-EF40-6R (2S)
Color	1	Black	Black	Series color	Series color	Series color	Series color
	2	Silver	Silver	-	-	-	-
	3	-	-	-	-	-	-
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		7	7	-	8	7	6
2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/ rear)		3	3	-	3	3	3
Compatible RD type		MTB 7-speed RD	MTB 7-speed RD	-	MTB 8-speed RD	MTB 7-speed RD	MTB 6-speed RD
I-spec compatible		-	-	-	-	-	-
SL position adjust		-	-	-	-	-	-
Release function	Multi release	-	-	-	-	-	-
	Instant release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
SL cable adjust		-	-	X	-	-	-
Optical Gear Display	with	X	X	X	X	X	X
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
SL outer casing		OT-SP40	OT-SP40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Lever body	Main	Steel & Resin	Steel & Resin	Resin	Resin	Resin	Resin
	Release	Steel & Resin	Steel & Resin	Resin	Resin	Resin	Resin
Average weight		-	-	-	-	-	-
Note				SHIMANO / Tourney logo	SHIMANO logo	Tourney logo	Tourney logo

Shift/Brake Lever

Brake Lever

Series		DEORE	DEORE	ALIVIO	ALIVIO	ACERA	ACERA
Model no.		ST-M590-L	ST-M590-R	ST-M430-L	ST-M430-R	ST-M390-L	ST-M390-R
Color	1	Series color	Series color	Black	Black	Black	Black
	2	-	-	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	-	-	-	-	-	-
	Roller brake	-	-	-	-	-	-
Recommended power modulator	V-BRAKE	SMPM70	SMPM70	-	-	-	-
	Mechanical disc brake (MTB)	SMPM50	SMPM50	-	-	-	-
Clamp band	Open clamp band	-	-	-	-	-	-
	I-spec compatible	-	-	-	-	-	-
Internal bumper stop		X	X	X	X	X	X
Lever size (Finger)		3	3	2	2	2	2
Brake cable type		T-type	T-type	T-type	T-type	T-type	T-type
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
Average weight		-	-	-	-	-	-
Note		Use w/ Power Modulator	Use w/ Power Modulator				

Shift/Brake Lever

Brake Lever

Series		ACERA	ACERA	ALTUS	ALTUS	Non-Series	Non-Series
Model no.		ST-M360-L2A	ST-M360-8R2A	ST-M370-L	ST-M370-R	ST-M310-L2	ST-M310-L4
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 with switch
	Mechanical disc brake (MTB)	X	X	X	X	X	X with switch
	Mechanical disc brake (Road)	-	-	-	-	-	-
	Caliper (new super SLR)	-	-	-	-	-	-
	Caliper (super SLR)	-	-	-	-	-	-
	Canti brake	-	-	-	-	-	X with switch
Roller brake	-	-	-	-	-	X with switch	
Recommended power modulator	V-BRAKE	-	-	-	-	-	SMPM40
	Mechanical disc brake (MTB)	-	-	-	-	-	SMPM50
Clamp band	Open clamp band	-	-	-	-	-	-
	I-spec compatible	-	-	-	-	-	-
Internal bumper stop		-	-	-	-	-	-
Lever size (Finger)		2	2	2 finger	2 finger	2	4
Brake cable type		T-type	T-type	T-type	T-type	T-type	T-type
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
Average weight		-	-	-	-	-	-
Note							*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.		ST-M310-8R2	ST-M310-8R4	ST-EF65-L2	ST-EF65-L4	ST-EF65-9R2	ST-EF65-9R4
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
Compatible brake type	V-BRAKE	X	X with switch	X	X with switch	X	X with switch
	Mechanical disc brake (MTB)	X	X with switch	X	X with switch	X	X with switch
	Mechanical disc brake (Road)	-	-	-	-	-	-
	Caliper (new super SLR)	-	-	-	-	-	-
	Caliper (super SLR)	-	-	-	-	-	-
	Canti brake	-	X with switch	-	X with switch	-	X with switch
Roller brake	-	X with switch	-	X with switch	-	X with switch	
Recommended power modulator	V-BRAKE	-	SMPM40	-	SMPM40	-	SMPM40
	Mechanical disc brake (MTB)	-	SMPM50	-	SMPM50	-	SMPM50
Clamp band	Open clamp band	-	-	-	-	-	-
	I-spec compatible	-	-	-	-	-	-
Internal bumper stop		-	-	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
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
Average weight		-	-	-	-	-	-
Note			*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible		*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible		*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible

Shift/Brake Lever

Brake Lever

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	
Model no.	ST-EF65-8R2	ST-EF65-8R4	ST-EF65-7R2	ST-EF65-7R4	ST-EF51-L (2A)	ST-EF51-L (4A)	
Color	1	Black	Black	Black	Black	Black	
	2	Silver	Silver	Silver	Silver	Silver	
	3	-	-	-	-	-	
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 (new super SLR)	-	-	-	-	-	
	Caliper (super SLR)	-	-	-	-	-	
	Canti brake	-	X with switch	-	X with switch	-	X with switch
Roller brake	-	X with switch	-	X with switch	-	X with switch	
Recommended power modulator	V-BRAKE	-	SMPM40	-	SMPM40	-	SMPM40
	Mechanical disc brake (MTB)	-	SMPM50	-	SMPM50	-	SMPM50
Clamp band	Open clamp band	-	-	-	-	-	-
	I-spec compatible	-	-	-	-	-	-
Internal bumper stop	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	
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	
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	

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	
Model no.	ST-EF51-9R(2A)	ST-EF51-9R(4A)	ST-EF51-8R (2A)	ST-EF51-8R (4A)	ST-EF51-7R (2A)	ST-EF51-7R (4A)	
Color	1	Black	Black	Black	Black	Black	
	2	Silver	Silver	Silver	Silver	Silver	
	3	-	-	-	-	-	
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 (new super SLR)	-	-	-	-	-	
	Caliper (super SLR)	-	-	-	-	-	
	Canti brake	-	X with switch	-	X with switch	-	X with switch
Roller brake	-	X with switch	-	X with switch	-	X with switch	
Recommended power modulator	V-BRAKE	-	SMPM40	-	SMPM40	-	SMPM40
	Mechanical disc brake (MTB)	-	SMPM50	-	SMPM50	-	SMPM50
Clamp band	Open clamp band	-	-	-	-	-	-
	I-spec compatible	-	-	-	-	-	-
Internal bumper stop	-	-	-	-	-	-	
Lever size (Finger)	2	4	2	4	2	4	
Brake cable type	T-type	T-type	T-type	T-type	T-type	T-type	
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	
Average weight	-	-	-	-	-	-	
Note		*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible		*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible		*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	

Shift/Brake Lever

Brake Lever

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.	ST-EF51-AL (2A)	ST-EF51-AL (4A)	ST-EF51-A9R (2A)	ST-EF51-A9R (4A)	ST-EF51-A8R (2A)	ST-EF51-A8R (4A)
Color	1	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-
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 (new super SLR)	-	-	-	-	-
	Caliper (super SLR)	-	-	-	-	-
	Canti brake	-	X with switch	-	X with switch	-
	Roller brake	-	X with switch	-	X with switch	-
Recommended power modulator	V-BRAKE	-	SMPM40	-	SMPM40	-
	Mechanical disc brake (MTB)	-	SMPM50	-	SMPM50	-
Clamp band	Open clamp band	-	-	-	-	-
	I-spec compatible	-	-	-	-	-
Internal bumper stop	-	-	-	-	-	-
Lever size (Finger)	2	4	2	4	2	4
Brake cable type	T-type	T-type	T-type	T-type	T-type	T-type
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
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

Series	Non-Series	Non-Series	Tourney	Non-Series	Tourney	Tourney
Model no.	ST-EF51-A7R (2A)	ST-EF51-A7R (4A)	ST-EF40-L (2S)	ST-EF40-8R (2S)	ST-EF40-7R (2S)	ST-EF40-6R (2S)
Color	1	Black	Series color	Series color	Series color	Series color
	2	Silver	-	-	-	-
	3	-	-	-	-	-
Compatible brake type	V-BRAKE	X	X with switch	X	X	X
	Mechanical disc brake (MTB)	X	X with switch	X	X	X
	Mechanical disc brake (Road)	-	-	-	-	-
	Caliper (new super SLR)	-	-	-	-	-
	Caliper (super SLR)	-	-	-	-	-
	Canti brake	-	X with switch	-	-	-
	Roller brake	-	X with switch	-	-	-
Recommended power modulator	V-BRAKE	-	SMPM40	-	-	-
	Mechanical disc brake (MTB)	-	SMPM50	-	-	-
Clamp band	Open clamp band	-	-	-	-	-
	I-spec compatible	-	-	-	-	-
Internal bumper stop	-	-	-	-	-	-
Lever size (Finger)	2	4	2	2	2	2
Brake cable type	T-type	T-type	T-type	T-type	T-type	T-type
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
Average weight	-	-	-	-	-	-
Note		*V-BRAKE and Mechanical Disc Brake must be used with power modulator *INTER-M Compatible	SHIMANO / Tourney logo	SHIMANO logo	Tourney logo	Tourney logo

Shift/Brake Lever

Integration unit for Shift Lever

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
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

Rear Derailleur

Series	XTR	XTR	XTR	XTR	SAINT	DEORE XT
Model no.	RD-M981-GS	RD-M981-SGS	RD-M986-GS	RD-M986-SGS	RD-M820-SS	RD-M781-GS
Pulley cage	GS	SGS	GS	SGS	SS	GS
Color	1	Series color	Series color	Series color	Series color	Silver
	2	-	-	-	-	Black
	3	-	-	-	-	-
Rear speeds	10	10	10	10	10	10
Top-Normal spring type	SHADOW RD	X	X	-	-	X
	SHADOW RD+	-	-	X	X	-
	W servo	-	-	-	-	-
Direct attachment (Conventional)	X	X	X	X	X	X
Direct mount compatible (New SHADOW RD)	X	X	X	X	X	X
Detachable bracket (for Direct mount)	X*	X*	X*	X*	X	X*
Riveted adapter	Road type	-	-	-	-	-
	BMX-Track type	-	-	-	-	-
Recommended 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
Max. front difference	18T	18T	18T	18T	Single	18T
Total capacity	35T	41T	35T	41T	25T	35T
Low sprocket	Max.	36T	36T	36T	36T	28/36T*
	Min.	32T	32T	32T	32T	23T
Top sprocket	Max.	11T	11T	11T	11T	12T
	Min.	11T	11T	11T	11T	11T
Mode converter	-	-	-	-	X	-
Cable adjuster	-	-	-	-	-	-
Pulley	G pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	-
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	Teeth	11	11	11	11	11
	Bolts retainer	X	X	X	X	X
	Sunken type pulley bolt	X	X	X	X	X
Bracket mount bolt	Hollow Axle	X	X	X	X	X
Bracket pivot bolt	Hollow Axle	X	X	X	X	-
Fluoric coated link bushings	4	4	4	4	5	4
Average weight	179g	181g	211g	213g	280g (w/o mode converter)	230g
Note	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available		*w/o bracket spec available

Rear Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		RD-M781-SGS	RD-M786-GS	RD-M786-SGS	RD-T780-SGS	RD-M772-GS	RD-M772-SGS
Pulley cage		SGS	G5	SGS	SGS	G5	SGS
Color	1	Silver	Silver	Silver	Silver	Series color	Series color
	2	Black	Black	Black	Black	-	-
	3	-	-	-	-	-	-
Rear speeds		10	10	10	10	9	9
Top-Normal spring type	SHADOW RD	X	-	-	-	X	X
	SHADOW RD+	-	X	X	-	-	-
	W servo	-	-	-	X	-	-
Direct attachment (Conventional)		X	X	X	X	X	X
Direct mount compatible (New SHADOW RD)		X	X	X	-	-	-
Detachable bracket (for Direct mount)		X*	X*	X*	-	-	-
Riveted adapter	Road type	-	-	-	-	-	-
	BMX-Track type	-	-	-	-	-	-
Recommended chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
Max. front difference		22T	18T	22T	22T	22T	22T
Total capacity		43T	35T	43T	45T	35T	45T
Low sprocket	Max.	36T	36T	36T	34T	36T	36T
	Min.	32T	32T	32T	28T	32T	32T
Top sprocket	Max.	11T	11T	11T	12T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Pulley	G pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	-	-	-
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	Teeth	11	11	11	11	11	11
	Bolts retainer	-	-	-	-	-	-
	Sunken type pulley bolt	X	X	X	X	X	X
Bracket mount bolt	Hollow Axle	X	X	X	-	X	X
Bracket pivot bolt	Hollow Axle	-	-	-	-	-	-
Fluoric coated link bushings		4	4	4	4	4	4
Average weight		234g	249g	-	236g	227g	-
Note		*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available			

Rear Derailleur

Series		DEORE XT	DEORE XT	SLX	SLX	SLX	SLX
Model no.		RD-M771-GS	RD-M771-SGS	RD-M670-GS	RD-M670-SGS	RD-M675-GS	RD-M675-SGS
Pulley cage		GS	SGS	GS	SGS	GS	SGS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Rear speeds		9	9	10	10	10	10
Top-Normal spring type	SHADOW RD	-	-	X	X	-	-
	SHADOW RD+	-	-	-	-	X	X
	W servo	X	X	-	-	-	-
Direct attachment (Conventional)		X	X	X	X	X	X
Direct mount compatible (New SHADOW RD)		-	-	X	X	X	X
Detachable bracket (for Direct mount)		-	-	X*	X*	X*	X*
Riveted adapter	Road type	-	-	-	-	-	-
	BMX-Track type	-	-	-	-	-	-
Recommended chain		HG 9-speed	HG 9-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Max. front difference		22T	22T	18T	22T	18T	22T
Total capacity		35T	45T	35T	43T	35T	43T
Low sprocket	Max.	34T	34T	36T	36T	36T	36T
	Min.	32T	32T	32T	32T	32T	32T
Top sprocket	Max.	11T	11T	11T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	Sealed Bearing	Sealed Bearing	-	-	-	-
	Teeth	11	11	11	11	11	11
	Bolts retainer	-	-	-	-	-	-
	Sunken type pulley bolt	X	X	X	X	X	X
Bracket mount bolt	Hollow Axle	X	X	X	X	X	X
Bracket pivot bolt	Hollow Axle	-	-	-	-	-	-
Fluoric coated link bushings		4	4	3	3	3	3
Average weight		228g	-	-	-	306g	311g
Note				*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available	*w/o bracket spec available

SL

BL

ST

RD

FD

BR

RT

RTAD

SMBH

FC

BB

CS

MF

CN

FH

HB

WH

PD

CI-DECK

Rear Derailleur

Series		SLX	SLX	DEORE LX	ZEE	DEORE	DEORE
Model no.		RD-M662-GS	RD-M662-SGS	RD-T670-A-SGS	RD-M640-SS	RD-M610-GS	RD-M610-SGS
Pulley cage		GS	SGS	SGS	SS	GS	SGS
Color	1	Series color	Series color	Silver	Series color	Black	Black
	2	-	-	Black	-	Silver	Silver
	3	-	-	-	-	-	-
Rear speeds		9	9	10	10	10	10
Top-Normal spring type	SHADOW RD	X	X	-	-	X	X
	SHADOW RD+	-	-	-	X	-	-
	W servo	-	-	X	-	-	-
Direct attachment (Conventional)		X	X	X	X	X	X
Direct mount compatible (New SHADOW RD)		-	-	-	X	X	X
Detachable bracket (for Direct mount)		-	-	-	X	X*	X*
Riveted adapter	Road type	-	-	-	-	-	-
	BMX-Track type	-	-	-	-	-	-
Recommended chain		HG 9-speed	HG 9-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Max. front difference		22T	22T	22T	Single	18T	22T
Total capacity		35T	45T	45T	25T	35T	43T
Low sprocket	Max.	36T	36T	34T	36T(Freeride spec) 28T(DH spec)	36T	36T
	Min.	32T	32T	28T	23T	32T	32T
Top sprocket	Max.	11T	11T	12T	12T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	11	11	11	11	11T	11T
	Bolts retainer	-	-	-	-	-	-
	Sunken type pulley bolt	X	X	X	X	X	X
Bracket mount bolt	Hollow Axle	X	X	-	X	X	X
Bracket pivot bolt	Hollow Axle	-	-	-	-	X	X
Fluoric coated link bushings		3	3	2	3	3	3
Average weight		253g	258g		250g	299g	308g
Note						*w/o bracket spec available	*w/o bracket spec available

Rear Derailleur

Series		DEORE	DEORE	DEORE	DEORE	DEORE	ALIVIO
Model no.		RD-M615-GS	RD-M615-SGS	RD-T610-SGS	RD-M592-SGS	RD-M591-SGS	RD-M430-SGS
Pulley cage		GS	SGS	SGS	SGS	SGS	SGS
Color	1	Black	Black	Black	Series color	Silver	Black
	2	Silver	Silver	Silver	-	Black	Silver
	3	-	-	-	-	-	-
Rear speeds		10	10	10	9	9	9
Top-Normal spring type	SHADOW RD	-	-	-	X	-	-
	SHADOW RD+	X	X	-	-	-	-
	W servo	-	-	X	-	X	X
Direct attachment (Conventional)		X	X	X	X	X	X
Direct mount compatible (New SHADOW RD)		X	X	-	-	-	-
Detachable bracket (for Direct mount)		X*	X*	-	-	-	-
Riveted adapter	Road type	-	-	-	-	-	-
	BMX-Track type	-	-	-	-	-	-
Recommended chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed
Max. front difference		18T	22T	22T	22T	22T	22T
Total capacity		35T	43T	45T	45T	45T	45T
Low sprocket	Max.	36T	36T	34T	36T	34T	34T
	Min.	32T	32T	28T	32T	28T	28T
Top sprocket	Max.	11T	11T	11T	12T	12T	12T
	Min.	11T	11T	11T	11T	11T	11T
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	X	X
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	11T	11T	11T	11	11	11
	Bolts retainer	-	-	-	-	-	-
	Sunken type pulley bolt	X	X	X	X	X	X
Bracket mount bolt	Hollow Axle	X	X	-	X	-	-
Bracket pivot bolt	Hollow Axle	X	X	-	-	-	-
Fluoric coated link bushings		3	3	2	3	2	2
Average weight		330g	339g	304g	-	-	-
Note		*w/o bracket spec available	*w/o bracket spec available				

SL

BL

ST

RD

FD

BR

RT

RTAD

SMBH

FC

BB

CS

MF

CN

FH

HB

WH

PD

CI-DECK

Rear Derailleur

Series		ALIVIO	ACERA	ACERA	ALTUS	ALTUS	ALTUS
Model no.		RD-M410-SGS	RD-M390-SGS	RD-M360-SGS	RD-M370-SGS	RD-M310-Smart	RD-M280-SGS
Pulley cage		SGS	SGS	SGS	SGS	Smart	SGS
Color	1	Black	Black	Black	Black	Black	Series color
	2	Neutral Silver	Silver	Silver	Silver	Silver	-
	3	-	-	-	-	-	-
Rear speeds		8/7	9	8/7	9	8/7	8/7
Top-Normal spring type	SHADOW RD	-	-	-	-	-	-
	SHADOW RD+	-	-	-	-	-	-
	W servo	X	X	X	X	X	X
Direct attachment (Conventional)		X	X	X	X	X	X
Direct mount compatible (New SHADOW RD)		-	-	-	-	-	-
Detachable bracket (for Direct mount)		-	-	-	-	-	-
Riveted adapter	Road type	-	-	-	-	-	-
	BMX-Track type	-	-	-	-	-	-
Recommended chain		HG 8/7-speed	HG 9-speed	HG 8/7-speed	HG 9-speed	HG 8/7-speed	HG 8/7-speed
Max. front difference		20T	22T	20T	22T	20T	20T
Total capacity		43T	45T	43T	45T	43T	43T
Low sprocket	Max.	34T	34T	34T	34T	34T	34T
	Min.	28T	28T	28T	28T	28T	28T
Top sprocket	Max.	14T	12T	14T	11T	14T	14T
	Min.	11T	11T	11T	11T	11T	11T
Mode converter		-	-	-	-	-	-
Cable adjuster		X	X	X	X	X	X
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	13/13T	11	13/13T	11/11T	13/15T	13/13T
	Bolts retainer	-	-	-	-	-	-
	Sunken type pulley bolt	X	X	-	X (Guide pulley) - (Tension pulley)	-	-
Bracket mount bolt	Hollow Axle	-	-	-	-	-	-
Bracket pivot bolt	Hollow Axle	-	-	-	-	-	-
Fluoric coated link bushings		2	1	1	-	-	-
Average weight		-	-	-	-	-	-
Note							

Rear Derailleur

Series		Tourney	Tourney	Tourney	Tourney	Tourney	Tourney
Model no.		RD-TX75-SGS	RD-TX55-SGS	RD-TX35-SGS	RD-FT55-SS	RD-FT35-SS	RD-TZ50-GS
Pulley cage		SGS	SGS	SGS	SS	SS	GS
Color	1	Series color	Series color	Series color	Series color	Series color	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Rear speeds		7/6	7/6	7/6	7/6	7/6	6
Top-Normal spring type	SHADOW RD	-	-	-	-	-	-
	SHADOW RD+	-	-	-	-	-	-
	W servo	X	X	X	-	-	-
Direct attachment (Conventional)		X	X	X	X	X	X
Direct mount compatible (New SHADOW RD)		-	-	-	-	-	-
Detachable bracket (for Direct mount)		-	-	-	-	-	-
Riveted adapter	Road type	X	X	X	X	X	X
	BMX-Track type	-	X	X	X	X	-
Recommended chain		HG/UG 7/6-speed	HG/UG 7/6-speed	HG/UG 7/6-speed	CNHG40 / UG51	CNHG40 / UG51	HG/UG 6-speed
Max. front difference		20T	20T	20T	Front single use	Front single use	20T
Total capacity		43T	43T	43T	17T	17T	34T
Low sprocket	Max.	34T	34T	34T	28T	28T	28T
	Min.	28T	28T	28T	28T	28T	28T
Top sprocket	Max.	14T	14T	14T	14T	14T	14T
	Min.	11T	11T	11T	11T	11T	14T
Mode converter		-	-	-	-	-	-
Cable adjuster		X	X	X	X	X	X
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	13/13T	13/13T	13/13T	11/11T	11/11T	11/11T
	Bolts retainer	-	-	-	-	-	-
	Sunken type pulley bolt	-	-	-	-	-	-
Bracket mount bolt	Hollow Axle	-	-	-	-	-	-
Bracket pivot bolt	Hollow Axle	-	-	-	-	-	-
Fluoric coated link bushings		-	-	-	-	-	-
Average weight		-	-	-	-	-	-
Note					Allen key fixing	Allen key fixing	

SL

BL

ST

RD

FD

BR

RT

RTAD

SMBH

FC

BB

CS

MF

CN

FH

HB

WH

PD

CI-DECK

Rear Derailleur

Series		Tourney	Tourney	Tourney	Tourney
Model no.		RD-TY21-SS	RD-TY21-SS	RD-TY21-GS	RD-TY21-GS
Pulley cage		SS	SS	GS	GS
Color	1	Silver	Black	Silver	Black
	2	-	-	-	-
	3	-	-	-	-
Rear speeds		6	6	6	6
Top-Normal spring type	SHADOW RD	-	-	-	-
	SHADOW RD+	-	-	-	-
	W servo	-	-	-	-
Direct attachment (Conventional)		X	X	X	X
Direct mount compatible (New SHADOW RD)		-	-	-	-
Detachable bracket (for Direct mount)		-	-	-	-
Riveted adapter	Road type	X	-	X	X
	BMX-Track type	X	-	-	-
Recommended chain		HG/UG 6-speed	HG/UG 6-speed	HG/UG 6-speed	HG/UG 6-speed
Max. front difference		13T	13T	20T	20T
Total capacity		28T	28T	34T	34T
Low sprocket	Max.	28T	28T	28T	28T
	Min.	28T	28T	28T	28T
Top sprocket	Max.	14T	14T	14T	14T
	Min.	14T	14T	14T	14T
Mode converter		-	-	-	-
Cable adjuster		X	X	X	X
Pulley	G pulley bearing	-	-	-	-
	T pulley bearing	-	-	-	-
	Teeth	11/11T	11/11T	11/11T	11/11T
	Bolts retainer	-	-	-	-
	Sunken type pulley bolt	-	-	-	-
Bracket mount bolt	Hollow Axle	-	-	-	-
Bracket pivot bolt	Hollow Axle	-	-	-	-
Fluoric coated link bushings		-	-	-	-
Average weight		-	-	-	-
Note					

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	-	-	-	-	-	-
	3	-	-	-	-	-	-
Speeds	Front	3	3	3	3	2	2
	Rear	10	10	10	10	10	10
Action	Top Swing	X	X	-	-	X	X
	Down Swing	-	-	X	X	-	-
Mount	Clamp Band	X	-	X	-	X	-
	BB Plate	-	X	-	-	-	X
	Without BB Plate	-	X	-	-	-	-
	Direct Mount	-	-	-	X	-	-
Chain line (mm)		50	50	50	50	46.8 for 38T 48.8 for 40-44T	48.8 for 40-44T
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	-	-
Assumed Rear Sprocket teeth		11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69
Dual-Pull		X	X	X	X	X	X
Top-Pull exclusive option		-	-	X	X	-	-
Multi access cable fixing bolt		X	X	-	-	X	X
Angled adjusting bolt		X	X	X	X	X	X
Clamp band	28.6mm	X (w/Adapters)	-	X (w/AdapterS)	-	X (w/AdapterS)	-
	31.8mm	X (w/AdapterM)	-	X (w/AdapterM)	-	X (w/AdapterM)	-
	34.9mm	X	-	X	-	X	-
Angled clamp band design		X	-	X	-	X	-
Link bushing		2	2	8	8	2	2
Average weight		125g	142g (w / o BB plate)	148g	143g	135g	155g
Note					*Outer cable stopper integrated design		

Series		XTR	XTR	XTR	DEORE XT	DEORE XT	DEORE XT
Model no.		FD-M985-E2	FD-M986	FD-M986-D	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
	3	-	-	-	-	-	-
Speeds	Front	2	2	2	3	3	3
	Rear	10	10	10	10	10	10
Action	Top Swing	X	-	-	X	X	-
	Down Swing	-	X	X	-	-	X
Mount	Clamp Band	-	X	-	X	-	X
	BB Plate	-	-	-	-	-	-
	Without BB Plate	X	-	-	-	X	-
	Direct Mount	-	-	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
Top gear teeth		38-44T	38-44T	38-44T	42-40T	42-40T	42-40T
Total capacity		14T	14T	14T	18T	18T	18T
Applicable Top-Mid tooth difference		-	-	-	10T	10T	10T
Assumed Rear Sprocket teeth		11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69
Dual-Pull		X	X	X	X	X	X
Top-Pull exclusive option		-	X	X	-	-	X
Multi access cable fixing bolt		X	-	-	X	X	-
Angled adjusting bolt		X	X	X	X	X	X
Clamp band	28.6mm	-	X (w/AdapterS)	-	X (w/AdapterS)	-	X (w/AdapterS)
	31.8mm	-	X (w/AdapterM)	-	X (w/AdapterM)	-	X (w/AdapterM)
	34.9mm	-	X	-	X	-	X
Angled clamp band design		-	X	-	X	-	X
Link bushing		2	8	8	2	2	8
Average weight		125g	127g	122g	152g	141g	151g(Dual pull) 147g(Top pull)
Note				*Outer cable stopper integrated design *new FD mount position is required when used for 44T			

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-T780-3
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	-	-	Silver	Silver	-
	3		-	-	-	-	-
Speeds	Front	3	2	2	2	2	3
	Rear	10	10	10	10	10	10
Action	Top Swing	-	X	X	-	-	X
	Down Swing	X	-	-	X	X	-
Mount	Clamp Band	-	X	-	X	-	X
	BB Plate	-	-	-	-	-	-
	Without BB Plate	-	-	X	-	-	-
	Direct Mount	X	-	-	-	X	-
Chain line (mm)		50	48.8	48.8	48.8	48.8	50
Top gear teeth		42-40T	38-44T	38-44T	38-44T	38-44T	48/44T
Total capacity		18T	14T	14T	14T	14T	22T
Applicable Top-Mid tooth difference		10T	-	-	-	-	12T
Assumed Rear Sprocket teeth		11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-28/11-32/11-34T
Chain stay angle		66-69	66-69	66-69	66-69	66-69	63-66
Dual-Pull		X	X	X	X	X	X
Top-Pull exclusive option		X	-	-	X	X	-
Multi access cable fixing bolt		-	X	X	-	-	-
Angled adjusting bolt		X	X	X	X	X	-
Clamp band	28.6mm	-	X (w/AdapterS)	-	X (w/AdapterS)	-	X (w/AdapterS)
	31.8mm	-	X (w/AdapterM)	-	X (w/AdapterM)	-	X (w/AdapterM)
	34.9mm	-	X	-	X	-	X
Angled clamp band design		-	X	-	X	-	X
Link bushing		8	2	2	8	8	2
Average weight		143g(Dual pull) 139g(Top pull)	136g	127g	155g	146g	155g
Note						*Outer cable stopper integrated design	

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		FD-T780-6	FD-T781-3	FD-M770	FD-M770-E	FD-M771	FD-M771-D
Color	1	Black	Black	Series color	Series color	Series color	Series color
	2	-	Silver	-	-	-	-
	3	-	-	-	-	-	-
Speeds	Front	3	3	3	3	3	3
	Rear	10	10	9	9	9	9
Action	Top Swing	X	-	X	X	-	-
	Down Swing	-	X	-	-	X	X
Mount	Clamp Band	X	X	X	-	X	-
	BB Plate	-	-	-	X	-	-
	Without BB Plate	-	-	-	X	-	-
	Direct Mount	-	-	-	-	-	X
Chain line (mm)		50	50	50	50	50	50
Top gear teeth		48/44T	48/44T	44/48T	44T	44T	44T
Total capacity		22T	22T	22T	22T	22T	22T
Applicable Top-Mid tooth difference		12T	12T	12T	12T	12T	12T
Assumed Rear Sprocket teeth		11-28/11-32/11-34T	11-28/11-32/11-34T	11-32/11-34T	11-32/11-34T	11-32/11-34T	11-32/11-34T
Chain stay angle		66-69	63-66	66-69	66-69	66-69	66-69
Dual-Pull		X	X	X	X	X	X
Top-Pull exclusive option		-	-	-	-	-	-
Multi access cable fixing bolt		-	-	-	-	-	-
Angled adjusting bolt		-	-	X	X	X	X
Clamp band	28.6mm	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	-	X (w/AdapterS)	-
	31.8mm	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	-	X (w/AdapterM)	-
	34.9mm	X	X	X	-	X	-
Angled clamp band design		X	X	X	-	X	-
Link bushing		2	8	2	2	8	8
Average weight		155g	167.7g	152g	166g	155g	147g
Note							*Outer cable stopper integrated design

Front Derailleur

Series		DEORE XT	DEORE XT	SLX	SLX	SLX	SLX
Model no.		FD-M772A	FD-M773	FD-M670-A-B	FD-M670-A-E	FD-M671-A-B	FD-M671-A-D
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Speeds	Front	3	3	3	3	3	3
	Rear	9	9	10	10	10	10
Action	Top Swing	X	-	X	X	-	-
	Down Swing	-	X	-	-	X	X
Mount	Clamp Band	X	X	X	-	X	-
	BB Plate	-	-	-	-	-	-
	Without BB Plate	-	-	-	X	-	-
	Direct Mount	-	-	-	-	-	X
Chain line (mm)		50	50	50	50	50	50
Top gear teeth		44/48T	44/48T	42-40T	42-40T	42-40T	42-40T
Total capacity		22T	22T	18T	18T	18T	18T
Applicable Top-Mid tooth difference		12T	12T	10T	10T	10T	10T
Assumed Rear Sprocket teeth		11-32/11-34T	11-32/11-34T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T
Chain stay angle		63-66	63-66	66-69	66-69	66-69	66-69
Dual-Pull		X (w/AdapterM)	X (w/AdapterM)	X	X	X	X
Top-Pull exclusive option		X	X	-	-	X	X
Multi access cable fixing bolt		-	-	X	X	-	-
Angled adjusting bolt		-	-	X	X	X	X
Clamp band	28.6mm	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	-	X (w/AdapterS)	-
	31.8mm	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	-	X (w/AdapterM)	-
	34.9mm	X	X	X	-	X	-
Angled clamp band design		X	X	X	-	X	-
Link bushing		2	7	2	2	8	8
Average weight		160g	174g				
Note							

Series		SLX	SLX	SLX	SLX	SLX	SLX
Model no.		FD-M675-B	FD-M675-E2	FD-M676-B	FD-M676-D	FD-M660	FD-M660-E
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Speeds	Front	2	2	2	2	3	3
	Rear	10	10	10	10	9	9
Action	Top Swing	X	X	-	-	X	X
	Down Swing	-	-	X	X	-	-
Mount	Clamp Band	X	-	X	-	X	-
	BB Plate	-	-	-	-	-	X
	Without BB Plate	-	X	-	-	-	-
	Direct Mount	-	-	-	X	-	-
Chain line (mm)		48.8	48.8	48.8	48.8	50	50
Top gear teeth		38-44T	38-44T	38-44T	38-44T	44T	44T
Total capacity		14T	14T	14T	14T	22T	22T
Applicable Top-Mid tooth difference		-	-	-	-	12T	12T
Assumed Rear Sprocket teeth		11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34T	11-32/11-34T
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69
Dual-Pull		X	X	X	X	X	X
Top-Pull exclusive option		-	-	X	X	-	-
Multi access cable fixing bolt		X	X	-	-	-	-
Angled adjusting bolt		X	X	X	X	X	X
Clamp band	28.6mm	X (w/AdapterS)	-	X (w/AdapterS)	-	X (w/AdapterS)	-
	31.8mm	X (w/AdapterM)	-	X (w/AdapterM)	-	X (w/AdapterM)	-
	34.9mm	X	-	X	-	X	-
Angled clamp band design		X	-	X	-	X	-
Link bushing		2	2	8	8	2	2
Average weight		138g	129g	157.5g	148g		170g
Note					*Outer cable stopper integrated design		

Front Derailleur

Series		SLX	SLX	DEORE LX	DEORE LX	DEORE LX	DEORE
Model no.		FD-M661	FD-M661-D	FD-T670-3	FD-T670-6	FD-T671-3	FD-M610-B
Color	1	Series color	Series color	Black	Black	Black	Black
	2	-	-	Silver	Silver	Silver	-
	3	-	-	-	-	-	-
Speeds	Front	3	3	3	3	3	3
	Rear	9	9	10	10	10	10
Action	Top Swing	-	-	X	X	-	X
	Down Swing	X	X	-	-	X	-
Mount	Clamp Band	X	-	X	X	X	X
	BB Plate	-	-	-	-	-	-
	Without BB Plate	-	-	-	-	-	-
	Direct Mount	-	X	-	-	-	-
Chain line (mm)		50	50	50	50	50	50
Top gear teeth		44T	44T	44/48T	44/48T	44/48T	42-40T
Total capacity		22T	22T	22T	22T	22T	18T
Applicable Top-Mid tooth difference		12T	12T	12T	12T	12T	10T
Assumed Rear Sprocket teeth		11-32/11-34T	11-32/11-34T	11-28/12-28/12-30/11-32/11-34T	11-28/12-28/12-30/11-32/11-34T	11-28/12-28/12-30/11-32/11-34T	11-36T/11-34T/11-32T
Chain stay angle		66-69	66-69	63-66	66-69	63-66	66-69
Dual-Pull		X	X	X	X	X	X
Top-Pull exclusive option		-	-	-	-	-	-
Multi access cable fixing bolt		-	-	-	-	-	X
Angled adjusting bolt		X	X	-	-	-	X
Clamp band	28.6mm	X (w/AdapterS)	-	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
	31.8mm	X (w/AdapterM)	-	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
	34.9mm	X	-	X	X	X	X
Angled clamp band design		X	-	X	X	X	X
Link bushing		8	8	2	2	8	2
Average weight			150g	157g	157g	172g	154g
Note			*Outer cable stopper integrated design				

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.		FD-M610-E	FD-M611-B	FD-M611-D	FD-M615-B	FD-M615-E2	FD-M616-B
Color	1	Black	Black	Black	Black	Black	Black
	2	-	Silver	Silver	-	-	Silver
	3	-	-	-	-	-	-
Speeds	Front	3	3	3	2	2	2
	Rear	10	10	10	10	10	10
Action	Top Swing	X	-	-	X	X	-
	Down Swing	-	X	X	-	-	X
Mount	Clamp Band	-	X	-	X	-	X
	BB Plate	-	-	-	-	-	-
	Without BB Plate	X	-	-	-	X	-
	Direct Mount	-	-	X	-	-	-
Chain line (mm)		50	50	50	48.8	48.8	48.8
Top gear teeth		42-40T	42-40T	42-40T	44-38T	40-38T	44-38T
Total capacity		18T	18T	18T	14T	14T	14T
Applicable Top-Mid tooth difference		10T	10T	10T	-	-	-
Assumed Rear Sprocket teeth		11-36T/11-34T/11-32T	11-36T/11-34T/11-32T	11-36T/11-34T/11-32T	11-36T/11-34T/11-32T	11-36T/11-34T/11-32T	11-36T/11-34T/11-32T
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69
Dual-Pull		X	X	X	X	X	X
Top-Pull exclusive option		-	X	X	-	-	X
Multi access cable fixing bolt		X	-	-	X	X	-
Angled adjusting bolt		X	X	X	X	X	X
Clamp band	28.6mm	-	X (w/AdapterS)	-	X (w/AdapterS)	-	X (w/AdapterS)
	31.8mm	-	X (w/AdapterM)	-	X (w/AdapterM)	-	X (w/AdapterM)
	34.9mm	-	X	-	X	-	X
Angled clamp band design		-	X	-	X	-	X
Link bushing		2	8	8	2	2	8
Average weight		143g	155g(Dual pull) 151g(Top pull)	146g(Dual pull) 141g(Top pull)	138g(Dual pull)	129g	158g(Dual pull) 151g(Top pull)
Note							

Front Derailleur

Series		DEORE	DEORE	DEORE	DEORE	ALIVIO	ALIVIO
Model no.		FD-M616-D	FD-T610-3	FD-T610-6	FD-T611-3	FD-M430-3	FD-M430-6
Color	1	Black	Black	Black	Black	Series color	Series color
	2	Silver	-	-	Silver	-	-
	3	-	-	-	-	-	-
Speeds	Front	2	3	3	3	3	3
	Rear	10	10	10	10	9	9
Action	Top Swing	-	X	X	-	X	X
	Down Swing	X	-	-	X	-	-
Mount	Clamp Band	-	X	X	X	X	X
	BB Plate	-	-	-	-	-	-
	Without BB Plate	-	-	-	-	-	-
	Direct Mount	X	-	-	-	-	-
Chain line (mm)		48.8	50	50	50	50	50
Top gear teeth		44-38T	48T/44T	48T/44T	48T/44T	44/48T	44/48T
Total capacity		14T	22T	22T	22T	22T	22T
Applicable Top-Mid tooth difference		-	12T	12T	12T	12T	12T
Assumed Rear Sprocket teeth		11-36T/11-34T/11-32T	11-28T/12-28T/12-30T/11-32T/11-34T	11-28T/12-28T/12-30T/11-32T/11-34T	11-28T/12-28T/12-30T/11-32T/11-34T	11-28/11-32/11-34T	11-28/11-32/11-34T
Chain stay angle		66-69	63-66	66-69	63-66	63-66	66-69
Dual-Pull		X	X	X	X	X	X
Top-Pull exclusive option		X	-	-	-	-	-
Multi access cable fixing bolt		-	X	X	-	-	-
Angled adjusting bolt		X	-	-	-	-	-
Clamp band	28.6mm	-	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
	31.8mm	-	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
	34.9mm	-	X	X	X	X	X
Angled clamp band design		-	-	-	-	X	X
Link bushing		8	2	2	8	-	-
Average weight		149g(Dual pull) 142g(Top pull)	157g	157g	172g	-	-
Note							

Series		ALIVIO	ALIVIO	ALIVIO	ACERA	ACERA	ACERA
Model no.		FD-M431-3	FD-M431-6	FD-M410-E	FD-M390-3	FD-M390-6	FD-M360-3
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Speeds	Front	3	3	3	3	3	3
	Rear	9	9	8/7	9	9	8/7
Action	Top Swing	-	-	X	X	X	X
	Down Swing	X	X	-	-	-	-
Mount	Clamp Band	X	X	-	X	X	X
	BB Plate	-	-	X	-	-	-
	Without BB Plate	-	-	-	-	-	-
	Direct Mount	-	-	-	-	-	-
Chain line (mm)		50	50	50	50	50	47.5 / 50
Top gear teeth		44/48T	44/48T	42T	44/48T	44/48T	42/48T
Total capacity		22T	22T	20T	22T	22T	20T
Applicable Top-Mid tooth difference		12T	12T	10T	12T	12T	10T
Assumed Rear Sprocket teeth		11-28/11-32/11-34T	11-28/11-32/11-34T	11-28/11-30/11-32/11-34/12-28/12-32/13-28/14-28/14-34T	11-28/11-32/11-34T	11-28/11-32/11-34T	11-28/11-30/11-32/11-34/12-28/12-32/13-28/14-28/14-34T
Chain stay angle		63-66	66-69	New Slotted E-type Chainstay Angle: 63° to 69°	63-66	66-69	63-66
Dual-Pull		X	X	X	X	X	X
Top-Pull exclusive option		-	-	-	-	-	-
Multi access cable fixing bolt		-	-	-	-	-	-
Angled adjusting bolt		-	-	-	-	-	-
Clamp band	28.6mm	X (w/AdapterS)	X (w/AdapterS)	-	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
	31.8mm	X (w/AdapterM)	X (w/AdapterM)	-	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
	34.9mm	X	X	-	X	X	X
Angled clamp band design		X	X	-	X	X	X
Link bushing		2	2	-	-	-	-
Average weight		-	-	-	-	-	-
Note							

Front Derailleur

Series		ACERA	ALTUS	ALTUS	ALTUS	ALTUS	ALTUS
Model no.		FD-M360-6	FD-M370-3	FD-M370-6	FD-M371-3	FD-M371-6	FD-M310-3
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Speeds	Front	3	3	3	3	3	3
	Rear	8/7	9	9	9	9	8/7
Action	Top Swing	X	X	X	-	-	X
	Down Swing	-	-	-	X	X	-
Mount	Clamp Band	X	X	X	X	X	X
	BB Plate	-	-	-	-	-	-
	Without BB Plate	-	-	-	-	-	-
	Direct Mount	-	-	-	-	-	-
Chain line (mm)		47.5 / 50	50	50	50	50	47.5 / 50
Top gear teeth		42/48T	44T/48T	44T/48T	44T/48T	44T/48T	42/48T
Total capacity		20T	22T	22T	22T	22T	20T
Applicable Top-Mid tooth difference		10T	12T	12T	12T	12T	10T
Assumed Rear Sprocket teeth		11-28/11-30/11-32/11-34/12-28/12-32/13-28/14-28/14-34T	11-28 / 11-32 / 11-34	11-28 / 11-32 / 11-34	11-28 / 11-32 / 11-34	11-28 / 11-32 / 11-34	11-28/11-30/11-32/11-34/12-28/12-32/13-28/14-28/14-34T
Chain stay angle		66-69	63-66	66-69	63-66	66-69	63-66
Dual-Pull		X	X	X	X	X	X
Top-Pull exclusive option		-	-	-	-	-	-
Multi access cable fixing bolt		-	-	-	-	-	-
Angled adjusting bolt		-	-	-	-	-	-
Clamp band	28.6mm	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
	31.8mm	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
	34.9mm	X	X	X	X	X	X
Angled clamp band design		X	X	X	X	X	X
Link bushing		-	-	-	-	-	-
Average weight		-	-	-	-	-	-
Note							

Series		ALTUS	ALTUS	ALTUS	Non-Series	Non-Series	Non-Series
Model no.		FD-M310-6	FD-M311-3	FD-M311-6	FD-M190-3	FD-M190A-6	FD-M191-3
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Speeds	Front	3	3	3	3	3	3
	Rear	8/7	8/7	8/7	8/7	8/7	8/7
Action	Top Swing	X	-	-	X	X	X
	Down Swing	-	X	X	-	-	-
Mount	Clamp Band	X	X	X	X	X	X
	BB Plate	-	-	-	-	-	-
	Without BB Plate	-	-	-	-	-	-
	Direct Mount	-	-	-	-	-	-
Chain line (mm)		47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50
Top gear teeth		42/48T	42/48T	42/48T	42T	42T	48T
Total capacity		20T	20T	20T	18T	18T	20T
Applicable Top-Mid tooth difference		10T	10T	10T	8T	8T	10T
Assumed Rear Sprocket teeth		11-28/11-30/11-32/11-34/12-28/12-32/13-28/14-28/14-34T	11-28/11-30/11-32/11-34/12-28/12-32/13-28/14-28/14-34T	11-28/11-30/11-32/11-34/12-28/12-32/13-28/14-28/14-34T	11-28/11-30/11-32/11-34/12-28/12-32/13-28/14-28/14-34T	11-28/11-30/11-32/11-34/12-28/12-32/13-28/14-28/14-34T	11-28/11-30/11-32/11-34/12-28/12-32/13-28/14-28/14-34T
Chain stay angle		66-69	63-66	66-69	63-66	66-69	63-66
Dual-Pull		X	X	X	X	X	X
Top-Pull exclusive option		-	-	-	-	-	-
Multi access cable fixing bolt		-	-	-	-	-	-
Angled adjusting bolt		-	-	-	-	-	-
Clamp band	28.6mm	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
	31.8mm	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
	34.9mm	X	X	X	X	X	X
Angled clamp band design		X	-	-	X	X	X
Link bushing		-	-	-	-	-	-
Average weight		-	-	-	-	-	-
Note							

Front Derailleur

Series		Non-Series	Tourney	Tourney	Tourney	Tourney	Tourney
Model no.		FD-M191-6	FD-TX50-3	FD-TX50-6	FD-TX51-3	FD-TX51-6	FD-TY10
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Speeds	Front	3	3	3	3	3	3
	Rear	8/7	7/6	7/6	7/6	7/6	7/6
Action	Top Swing	X	X	X	X	X	-
	Down Swing	-	-	-	-	-	X
Mount	Clamp Band	X	X	X	X	X	X
	BB Plate	-	-	-	-	-	-
	Without BB Plate	-	-	-	-	-	-
	Direct Mount	-	-	-	-	-	-
Chain line (mm)		47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5
Top gear teeth		48T	42T	42T	48T	48T	42T
Total capacity		20T	18T	18T	20T	20T	18T
Applicable Top-Mid tooth difference		10T	8T	8T	10T	10T	8T
Assumed Rear Sprocket teeth		11-28/11-30/11-32/11-34/12-28/12-32/13-28/14-28/14-34T	11-28/12-28/12-32/13-28/14-28/14-34T	11-28/12-28/12-32/13-28/14-28/14-34T	11-28/12-28/12-32/13-28/14-28/14-34T	11-28/12-28/12-32/13-28/14-28/14-34T	11-28/12-28/12-32/13-28/14-28/14-34T
Chain stay angle		66-69	63-66	66-69	63-66	66-69	66-69
Dual-Pull		X	X	X	X	X	-
Top-Pull exclusive option		-	-	-	-	-	-
Multi access cable fixing bolt		-	-	-	-	-	-
Angled adjusting bolt		-	-	-	-	-	-
Clamp band	28.6mm	X (w/AdapterS)	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 (w/AdapterM)	X
	34.9mm	X	X	X	X	X	X*
Angled clamp band design		X	X	X	X	X	-
Link bushing		-	-	-	-	-	-
Average weight		-	-	-	-	-	-
Note							*For 50mm chain line

Series		Tourney	Tourney
Model no.		FD-TZ30	FD-TZ31
Color	1	Series color	Series color
	2	-	-
	3	-	-
Speeds	Front	3 (friction)	3 (friction)
	Rear	7/6	7/6
Action	Top Swing	-	-
	Down Swing	X	X
Mount	Clamp Band	X	X
	BB Plate	-	-
	Without BB Plate	-	-
	Direct Mount	-	-
Chain line (mm)		47.5	47.5
Top gear teeth		42T	48T
Total capacity		18T	20T
Applicable Top-Mid tooth difference		8T	10T
Assumed Rear Sprocket teeth		11-28/12-28/12-32/13-28/14-28/14-34T	11-28/12-28/12-32/13-28/14-28/14-34T
Chain stay angle		66-69	66-69
Dual-Pull		-	-
Top-Pull exclusive option		-	-
Multi access cable fixing bolt		-	-
Angled adjusting bolt		-	-
Clamp band	28.6mm	X	X
	31.8mm	X	X
	34.9mm	-	-
Angled clamp band design		-	-
Link bushing		-	-
Average weight		-	-
Note			

Brake

V-BRAKE

Series		DXR	DEORE XT	DEORE LX	DEORE	Non-Series	Non-Series	
Model no.		BR-MX70	BR-T780	BR-T670	BR-T610	BR-M432	BR-M422	
Brake type		V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	
Color	1	Series color	Black	Black	Black	Black	Black	
	2	-	Silver	Silver	Silver	Silver	Silver	
	3	-	-	-	-	-	-	
Brake shoe type	Standard 1	S70C	S70C	S70C	S70C	S70C	S65T	
	Standard 2	-	M70CT4	M70CT4	M70CT4	-	-	
	Option 1	M70T4	-	M70T3	S70T	M70R2	M65T4	
	Option 2	M70T3	-	-	-	-	M65T3	
Cartridge shoe holder		X	X	X	X	X	-	
Arch size (mm)		103	103	107	107	107	107	
Fixing bolt length (mm)	16	X	X	X	X	X	X	
	25	X	X	X	X	X	X	
Spacer type	X type	X	X	X	X	X	X	
	Y type	X	X	X	X	X	X	
Compatible lead pipe angle (deg.)		45/90/135	45/90/135	45/90/135	45/90/135	45/90/135	45/90/135	
Sleeve & Bushing axle		X	X	X	X	X	X	
V-arm/Caliper	Light link	X	X	X	-	-	-	
Fixing bolt	Chamfered bolt	X	X	X	X	-	-	
Average weight		184g	174g	176g	186g	-	-	
Note		For BMX rear only						

Brake

Disc Brake

Series		XTR	XTR	SAINT	DEORE XT	SLX	DEORE LX
Model no.		BR-M985	BR-M987	BR-M820	BR-M785	BR-M675	BR-T675
Brake type		Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake
Color	1	Series color	Series color	Series color	Black	Series color	Black
	2	-	-	-	Silver	-	Silver
	3	-	-	-	-	-	-
Brake hose (kit)		SM-BH90-SB	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SB	SM-BH90-SB	SM-BH90-SS
Hose joint		Banjo	Banjo	Banjo	Banjo	Banjo	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	White	White	White	-
Ice technology pad compatible caliper		X	X	X	X	X	-
Pad	Standard 1	G01A Resin	G01A Resin	H01A Resin	G01A Resin	G015 Resin	B015 Resin
	Standard 2	F03C Metal	G03Ti Metal	H03C Metal	F03C Metal	F03C Metal	-
	Option 1	G03Ti Metal	F01A Resin	-	G03S Metal	G03S Metal	-
	Option 2	F01A Resin	F03C Metal	-	F01A Resin	F01A Resin	-
Recommended brake lever		BL-M988	BL-M987	BL-M820	BL-M785/BL-T785	BL-M675	BL-T675
Recommended brake rotor		*SM-RT99, SM-RT86	*SM-RT99, SM-RT86	SM-RT99, SM-RT86	SM-RT81, SM-RT86	SM-RT68, SM-RT66	SM-RT54, 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
Caliper	Mono-body	X	-	-	-	-	-
Caliper fixing bolt	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	Sprit pin	Sprit pin
Average weight		190g (F&R, Resin pad) 220g (F&R, Resin pad w / radiator fin)	186g(F&R, Resin pad)	306g (Resin pad w / radiator fin)	262g (F&R, Resin pad w / radiator fin)	264g(F&R, Resin pad)	268g(F&R, Resin pad)
Note		J-Kit spec available *140mm for rear only	J-Kit spec available *140mm for rear only **Titanium		J-Kit spec available	J-Kit spec available	

Brake

Disc Brake

Series		ZEE	DEORE	DEORE	Non-Series	Non-Series	Non-Series
Model no.		BR-M640	BR-M615	BR-T615	BR-R515	BR-R505	BR-M447
Brake type		Hydraulic Disc-brake	Hydraulic Disc brake	Hydraulic Disc-brake	Mechanical Disc-brake	Mechanical Disc-brake	Hydraulic Disc-brake
Color	1	Series color	Black	Black	Black	Silver	Black
	2	-	-	Silver	Silver	-	Silver
	3	-	-	-	-	-	White
Brake hose (kit)		SM-BH90-SBS	SM-BH90-SS	SM-BH59	Cable	Cable	SM-BH59
Hose joint		Banjo	Straight	Straight	-	-	Straight
Brake hose color (kit)	1	Black	Black	Black	-	-	Black
	2	White	White	White	-	-	White
Ice technology pad compatible caliper		X	X	-	-	-	-
Pad	Standard 1	D01S Resin	G01S Resin	B01S Resin	G01S Resin	M06 Metal	B01S Resin
	Standard 2	D02S Metal	G03S Metal	-	-	-	-
	Option 1	H01A Resin	F01A Resin	-	-	-	-
	Option 2	-	-	-	-	-	-
Recommended brake lever		BL-M640	BL-M615	BL-T615	ST-5700/ 4600 BL-R780/ 4600	For BL-TT78 ST-3400/ST-2300 ST-R221	BL-M445 / BL-M505 / BL-T445
Recommended brake rotor		SM-RT68, SM-RT66	SM-RT64, SM-RT66	SM-RT54, SM-RT56	SM-RT64	SM-RT64	SM-RT54 SM-RT56
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	-	-	SHIMANO Mineral
One way bleeding		X	X	X	-	-	X
Mount type (available for IS mount with mount adapter)		Post-type	Post-type	Post-type	Post-type	Post-type	Post-type
Piston		4	2	2	-	-	2
Caliper	Mono-body	-	-	-	-	-	-
	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		Sprit pin	Split pin	Split pin	Pad axle	Pad axle	Split pin
Average weight		314g (Resin pad)	285g (F&R, Resin pad)	268g (F&R, Resin pad)	-	-	-
Note							

Series		Non-Series	Non-Series	Non-Series	Non-Series
Model no.		BR-M446	BR-M416A	BR-M395	BR-M375
Brake type		Hydraulic Disc-brake	Mechanical Disc-brake	Hydraulic Disc-brake	Mechanical Disc-brake
Color	1	Black	Black	Black	Black
	2	Silver	Silver	White	Silver
	3	White	-	-	-
Brake hose (kit)		SM-BH59	Cable	SM-BH59	Cable
Hose joint		Straight	-	Straight	-
Brake hose color (kit)	1	Black	-	Black	-
	2	White	-	-	-
Ice technology pad compatible caliper		-	-	-	-
Pad	Standard 1	B01S Resin	B01S Resin	B01S Resin	B01S Resin
	Standard 2	-	-	-	-
	Option 1	-	-	-	-
	Option 2	-	-	-	-
Recommended brake lever		BL-M445 / BL-M505 / BL-T445	V-BRAKE BL (1.5-2.5 finger)	BL-M395	V-BRAKE BL (1.5-2.5 finger)
Recommended brake rotor		SM-RT54 SM-RT56	SM-RT54 SM-RT56	SM-RT30 SM-RT54 SM-RT56	SM-RT30 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	Post-type	Post-type
Piston		2	1	2	1
Caliper	Mono-body	-	-	-	-
	Tool size	5mm	5mm	5mm	5mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		Split pin	Split pin	Split pin	Split pin
Average weight		-	-	-	-
Note					

Brake

Roller Brake

Series	Non-Series	Non-Series		Non-Series		Non-Series	
Model no.	BR-IM86	BR-IM81		BR-IM80		BR-IM55	
Front	X	X	-	X	-	X	-
Rear	-	-	X	-	X	-	X
Structure type	Hyper	Hyper	Hyper	Hyper	Hyper	Normal	Normal
Braking power (*1)	1.5	1.5	1.5	1.5	1.5	1	1
Cooling fin diameter (mm)	180	180	180	150	150	140	140
Heat dissipation (*1)	2.3	2.3	2.3	1.4	1.4	1.2	1.2
Without cooling fin	-	-	-	-	-	-	-
Inner cable quick release	X	X	X	X	X	X	X
Disc brake mount compatible	X	-	-	-	-	-	-
Average weight							
Note *Performance index rating uses BR-IM45 brake unit as a reference value of 1. Testing condition							

Series	Non-Series		Non-Series	
Model no.	BR-IM45		BR-IM35	
Front	X	-	X	-
Rear	-	X	-	X
Structure type	Normal	Normal	Normal	Normal
Braking power (*1)	1	1	1	1
Cooling fin diameter (mm)	122	122	160	160
Heat dissipation (*1)	1	1	1.4	1.4
Without cooling fin	-	-	-	-
Inner cable quick release	X	X	-	-
Disc brake mount compatible	-	-	-	-
Average weight				
Note *Performance index rating uses BR-IM45 brake unit as a reference value of 1. Testing condition				

Disc Rotor

Series	XTR/SAINT	XTR	SAINT/DEORE XT	SAINT/DEORE XT	DEORE XT	Non-Series
Model no.	SM-RT99	SM-RT98	SM-RT86	SM-RT81	SM-RT76	SM-RT68
Center lock	X	X	-	X	-	X
6-bolt (P.C.D. 44mm)	-	-	X	-	X	-
Ice technology	X (Radiator fin)	X	X	X	-	X
Outside diameter	203mm	X	X	X	X	X
	180mm	X	X	X	X	X
	160mm	X	X	X	X	X
	140mm	X*	X*	-	-	-
Alloy lock ring	X	X	X	X	-	-
Pad compatibility	Metal	X	X	X	X	X
	Resin	X	X	X	X	X
Average weight	139g(180mm)	131g(180mm)	155g(180mm)	149g(180mm)	169g(180mm)	189g(180mm)
Note	w/Radiator fin *for rear only in MTB usage	*140mm for rear only	with anti loosen tightening plate		with anti loosen tightening plate	

Series	SLX/ZEE	SLX/DEORE	DEORE	Non-Series	Non-Series	Non-Series
Model no.	SM-RT67	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 technology	-	-	-	-	-	-
Outside diameter	203mm	X	X	X	-	-
	180mm	X	X	X	X	X
	160mm	X	X	X	X	X
	140mm	-	-	-	-	-
Alloy lock ring	-*	-	-	-	-	-
Pad compatibility	Metal	X	X	X	-	-
	Resin	X	X	X	X	X
Average weight	189g(180mm)			-	-	-
Note	*Alloy lock ring option	with anti loosen tightening plate		with anti loosen tightening plate		

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Disc Rotor Adaptor

Series		Non-Series	Non-Series
Model no.		SM-RTAD10	SM-RTAD05
Color	1	Black	Black
	2	-	-
	3	-	-
Lock ring	Type	Inner serration	Outer serration
Rotor mount method		Stainless pins	Torx bolts
Compatibility (Rotor)	SM-RT86	-	-
	SM-RT76	-	-
	SM-RT75	X	X
	SM-RT51	X	X
Compatibility (Axle)	F20 Thru	X	X
	F15 E-Thru	X	X
	F9 QR	X	X
	R12 E-Thru	X	X
	R12 Thru	X	X
	R10 Thru	X	X
Average weight			
Note		Use this disc rotor adaptor 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)	Use this disc rotor adaptor 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)

Disc Brake Hose

Series		XTR	SAINT	ZEE	XTR/DEORE XT/SLX	Non-Series	Non-Series
Model no.		SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBS	SM-BH90-SB	SM-BH90-SS	SM-BH80
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	White	White	White	-
	3	-	-	-	-	-	-
Hose joint	Brake lever	Straight	Straight	Straight	Straight	Straight	Straight
	Brake caliper	Banjo	Banjo	Banjo	Banjo	Straight	Banjo
Rigidity		High power	High power	High power	High power	High power	High power
Banjo	Length	Standard	Long	Standard	Standard	-	Standard
	Banjo bolt length	Long	Short	Short	Long	-	Long
Average weight							
Note		for BR-M987					

Series		Non-Series
Model no.		SM-BH59
Color	1	Black
	2	White
	3	-
Hose joint	Brake lever	Straight
	Brake caliper	Straight
Rigidity		Standard
Banjo	Length	-
	Banjo bolt length	-
Average weight		
Note		

Front Chainwheel

Series		XTR	XTR	XTR	XTR	XTR	SAINT
Model no.		FC-M980	FC-M980	FC-M985	FC-M985	FC-M985	FC-M820
Recommended chain stay length (mm)		420	420	420	420	420	420
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Rear speeds		10	10	10	10	10	10
Chain ring combination		42-32-24T	38-26T	44-30T	42-30T	40-28T	34/36/38T (SM-CR82)
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
P.C.D. (mm)		104/64	104/64	88	88	88	104
Assumed rear sprocket teeth		11-36/11-34/11-32	11-36/11-34/11-32	11-36/11-34/11-32	11-36/11-34/11-32	11-36/11-34/11-32	11-36/11-34/11-32/11-28/12-25
Crank arm length (mm)	160.0	-	-	-	-	-	-
	165.0	X	X	-	-	-	X
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	X	X	X	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
180.0	X	X	X	X	X	-	
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
HOLLOWTECH II Technology		X	X	X	X	X	X
integrated arm adapter		X	X	X	X	X	-
2-piece crank construction		X	X	X	X	X	X
HOLLOWTECH crank arm		X	X	X	X	X	X
OCTALINK technology		-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB80
	Threaded (E-type)	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93	-
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB71-41A
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded BB shell width	68 / 73mm	X	X	X	X	X	X
	83mm	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Chain line (mm)		50	46.8	48.8	48.8	48.8	50.4
With crank fixing bolt		X	X	X	X	X	X
Fixing hexagon bolt type (8mm)		-	-	-	-	-	-
Fixing bolt type (14mm)		-	-	-	-	-	-
Optional chain guard	with bash guard	-	-	-	-	-	-
	with chain guard	-	-	-	-	-	-
	without chain / bash guard	X	X	X	X	X	X
Average weight(175mm)		770g	735g	740g	720g	715g	919g (36T, 170mm, w/o bash guard)
Note							

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Front Chainwheel

Series		SAINT	DXR	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		FC-M825	FC-MX71	FC-M780	FC-M782	FC-M785	FC-M785
Recommended chain stay length (mm)		420	420	420	420	420	420
Color	1	Series color	Series color	Black	Black	Black	Black
	2	-	-	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
Rear speeds		10	1	10	10	10	10
Chain ring combination		34/36/38T (SM-CR82)	34/38/41/42/ 43/44/46T	42-32-24T	40x30x22T	40-28T	38-26T
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
P.C.D. (mm)		104	104/64	104/64	96/64	104/64	104/64
Assumed rear sprocket teeth		11-36/11-34/11-32/11-28/12-25	13 / 14 / 15 / 16	11-36/11-34/11-32	11-36/11-34/11-32T	11-36/11-34/11-32	11-36/11-34/11-32
Crank arm length (mm)	160.0	-	-	-	-	-	-
	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	-	-	-	-	-	-
	180.0	-	X	X	X	X	X
Chain		HG-X 10-speed	1/2" x 3/32"	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
HOLLOWTECH II Technology		X	X	X	X	X	X
integrated arm adapter		-	-	-	-	-	-
2-piece crank construction		X	X	X	X	X	X
HOLLOWTECH crank arm		X	X	X	X	X	X
OCTALINK technology		-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB80	SM-BB70(S)	SM-BB70	SM-BB70	SM-BB70	SM-BB70
	Threaded (E-type)	-	-	SM-BB70	SM-BB70	SM-BB70	SM-BB70
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	SM-BB71-41C	-	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	68 / 73mm	-	X	X	X	X	X
	83mm	X	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Chain line (mm)		57.9	44	50	50	48.8	48.8
With crank fixing bolt		X	X	X	X	X	X
Fixing hexagon bolt type (8mm)		-	-	-	-	-	-
Fixing bolt type (14mm)		-	-	-	-	-	-
Optional chain guard	with bash guard	-	-	-	-	-	-
	with chain guard	-	-	-	-	-	-
	without chain / bash guard	X	X	X	X	X	X
Average weight(175mm)		931g (36T, 170mm, w/o bash guard)	-	860g	870g	820g	810g
Note		for 83mm BB shell width	BMX racing 68mm BB shell width		FD-M780-A/M781-A		

Front Chainwheel

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX	SLX
Model no.		FC-M785	FC-T780	FC-T781	FC-T781	FC-M670	FC-M670
Recommended chain stay length (mm)		420	450	450	450	420	450
Color	1	Black	Black	Black	Black	Series color	Series color
	2	Silver	Silver	Silver	Silver	-	-
	3	-	-	-	-	-	-
Rear speeds		10	10	10	10	10	10
Chain ring combination		38-24T	48-36-26T	48-36-26T	44-32-24T	42x32x24T	48x36x26T
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
P.C.D. (mm)		104/64	104/64	104/64	104/64	104/64	104/64
Assumed rear sprocket teeth		11-36/11-34/11-32	11-34/11-32/11-28	11-34/11-32/11-28	11-34/11-32/11-28	11-36/11-34/11-32	11-34/11-32/11-28
Crank arm length (mm)	160.0	-	-	-	-	-	-
	165.0	X	X	X	X	-	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
	180.0	X	X	X	X	-	-
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
HOLLOWTECH II Technology		X	X	X	X	X	X
integrated arm adapter		-	-	-	-	-	-
2-piece crank construction		X	X	X	X	X	X
HOLLOWTECH crank arm		X	X	X	X	X	X
OCTALINK technology		-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB70	SM-BB70	SM-BB70	SM-BB70	SM-BB70	SM-BB70
	Threaded (E-type)	SM-BB70	-	-	-	SM-BB70	-
	Threaded (chain case)	-	-	SM-BB70	SM-BB70	-	-
	Pressfit	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	68 / 73mm	X	X	X	X	X	X
	83mm	-	-	-	-	-	-
Chain case compatible		-	-	X	X	-	-
Chain line (mm)		48.8	50	50	50	50	50
With crank fixing bolt		X	X	X	X	X	X
Fixing hexagon bolt type (8mm)		-	-	-	-	-	-
Fixing bolt type (14mm)		-	-	-	-	-	-
Optional chain guard	with bash guard	-	-	-	-	-	-
	with chain guard	-	X	X	X	X	X
	without chain / bash guard	X	X	X	X	X	X
Average weight(175mm)		-	950g	965g	940g	905g	-
Note							

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Front Chainwheel

Series		SLX	SLX	SLX	SLX	DEORE LX	DEORE LX
Model no.		FC-M672	FC-M675	FC-M675	FC-M675	FC-T671	FC-T671
Recommended chain stay length (mm)		420	420	420	420	450	450
Color	1	Series color	Series color	Series color	Series color	Black	Black
	2	-	-	-	-	Silver	Silver
	3	-	-	-	-	-	-
Rear speeds		10	10	10	10	10	10
Chain ring combination		40x30x22T	40x28T	38x26T	38x24T	48-36-26T	44-32-24T
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
P.C.D. (mm)		96/64	104/64	104/64	104/64	104/64	104/64
Assumed rear sprocket teeth		11-36/11-34/11-32T	11-36/11-34/11-32	11-36/11-34/11-32	11-36/11-34/11-32	11-34/11-32/11-28	11-34/11-32/11-28
Crank arm length (mm)	160.0	-	-	-	-	-	-
	165.0	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
	180.0	-	-	-	-	-	-
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
HOLLOWTECH II Technology		X	X	X	X	X	X
integrated arm adapter		-	-	-	-	X	X
2-piece crank construction		X	X	X	X	X	X
HOLLOWTECH crank arm		X	X	X	X	X	X
OCTALINK technology		-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB70	SM-BB70	SM-BB70	SM-BB70	SM-BB70	SM-BB70
	Threaded (E-type)	SM-BB70	SM-BB70	SM-BB70	SM-BB70	-	-
	Threaded (chain case)	-	-	-	-	SM-BB70	SM-BB70
	Pressfit	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	68 / 73mm	X	X	X	X	X	X
	83mm	-	-	-	-	-	-
Chain case compatible		-	-	-	-	X	X
Chain line (mm)		50	48.8	48.8	48.8	50	50
With crank fixing bolt		X	X	X	X	X	X
Fixing hexagon bolt type (8mm)		-	-	-	-	-	-
Fixing bolt type (14mm)		-	-	-	-	-	-
Optional chain guard	with bash guard	-	-	-	-	-	-
	with chain guard	-	-	-	-	X	X
	without chain / bash guard	X	X	X	X	X	X
Average weight(175mm)		890g	865g	850g	840g	992g	958g
Note		FD-M670-A/M671-A				4 arm integrated crank arm W/O CG spec available	4 arm integrated crank arm W/O CG spec available

Front Chainwheel

Series		ZEE	ZEE	Non-Series	Non-Series	DEORE	DEORE
Model no.		FC-M640	FC-M645	FC-M622	FC-M625	FC-M610	FC-M610
Recommended chain stay length (mm)		420	420	420	420	420	450
Color	1	Series color	Series color	Black	Black	Black	Black
	2	-	-	-	-	Silver	Silver
	3	-	-	-	-	-	-
Rear speeds		10	10	10	10	10	10
Chain ring combination		34/36/38T	34/36/38T	40x30x22T	38x24T	42x32x24T	48x36x26T
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
P.C.D. (mm)		104	104	96/64	104/64	104/64	104/64
Assumed rear sprocket teeth		11-36/11-34/11-32/11-28/12-25	11-36/11-34/11-32/11-28/12-25	11-36T/11-34T/11-32T	11-36T/11-34T/11-32T	11-36T/11-34T/11-32T	11-28T/12-28T/12-30T/11-32T/11-34T
Crank arm length (mm)	160.0	-	-	-	-	-	-
	165.0	X	X	-	-	-	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
	180.0	-	-	-	-	-	-
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
HOLLOWTECH II Technology		-	-	-	-	-	-
integrated arm adapter		-	-	-	-	-	-
2-piece crank construction		X	X	X	X	X	X
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK technology		-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB70	SM-BB70	SM-BB51	SM-BB51	SM-BB51	SM-BB51
	Threaded (E-type)	SM-BB70	SM-BB70	SM-BB51	SM-BB51	SM-BB51	-
	Threaded (chain case)	-	-	-	-	-	-
	Pressfit	SM-BB71-41A	SM-BB71-41C	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	68 / 73mm	X	-	X	X	X	X
	83mm	-	X	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Chain line (mm)		50.4	57.9	50	48.8	50	50
With crank fixing bolt		X	X	X	X	X	X
Fixing hexagon bolt type (8mm)		-	-	-	-	-	-
Fixing bolt type (14mm)		-	-	-	-	-	-
Optional chain guard	with bash guard	-	-	-	-	-	-
	with chain guard	-	-	-	-	-	X
	without chain / bash guard	X	X	X	X	X	X
Average weight(175mm)		906g (36T, 170mm, w/o bash guard)	938g (36T, 170mm, w/o bash guard)	965g	914g	975g	1052g
Note			for 83mm BB shell width				

Front Chainwheel

Series		DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.		FC-M612	FC-M615	FC-M615	FC-M615	FC-T611	FC-T611
Recommended chain stay length (mm)		420	420	420	420	450	450
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
Rear speeds		10	10	10	10	10	10
Chain ring combination		40x30x22T	40x28T	38x26T	38x24T	48-36-26	44-32-24
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
P.C.D. (mm)		96/64	104/64	104/64	104/64	104/64	104/64
Assumed rear sprocket teeth		11-36T/11-34T/11-32T	11-36T/11-34T/11-32T	11-36T/11-34T/11-32T	11-36T/11-34T/11-32T	11-28T/12-28T/12-30T/11-32T/11-34T	11-28T/12-28T/12-30T/11-32T/11-34T
Crank arm length (mm)	160.0	-	-	-	-	-	-
	165.0	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
	180.0	-	-	-	-	-	-
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
HOLLOWTECH II Technology		-	-	-	-	-	-
integrated arm adapter		-	-	-	-	X	X
2-piece crank construction		X	X	X	X	X	X
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK technology		-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB51	SM-BB51	SM-BB51	SM-BB51	SM-BB51	SM-BB51
	Threaded (E-type)	SM-BB51	SM-BB51	SM-BB51	SM-BB51	-	-
	Threaded (chain case)	-	-	-	-	SM-BB51	SM-BB51
	Pressfit	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	68 / 73mm	X	X	X	X	X	X
	83mm	-	-	-	-	-	-
Chain case compatible		-	-	-	-	X	X
Chain line (mm)		50	48.8	48.8	48.8	50	50
With crank fixing bolt		X	X	X	X	X	X
Fixing hexagon bolt type (8mm)		-	-	-	-	-	-
Fixing bolt type (14mm)		-	-	-	-	-	-
Optional chain guard	with bash guard	-	-	-	-	-	-
	with chain guard	-	-	-	-	X	X
	without chain / bash guard	X	X	X	X	X	X
Average weight(175mm)		965g	935g	922g	914g	1189g	1095g
Note							

Front Chainwheel

Series		DEORE	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	
Model no.		FC-M591	FC-M552	FC-T551	FC-T551	FC-M543-K	FC-M522	
Recommended chain stay length (mm)		420	420	420	450	420	420	
Color	1	Black	Black	Black	Black	Black	Black	
	2	Silver	Silver	Silver	Silver	Silver	Silver	
	3	-	-	-	-	-	-	
Rear speeds		9	10	10	10	9	10	
Chain ring combination		44-32-22T 48-36-26T	42-32-24T	44-32-24T	48-36-26T	44-32-22T 48-36-26T	42-32-24T	
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm	
P.C.D. (mm)		104/64	104/64	104/64	104/64	104/64	104/64	
Assumed rear sprocket teeth		11-34/11-32/11-28	11-36/11-34/11-32	11-34/11-32/11-28	11-34/11-32/11-28	11-34/11-32/11-28	11-36/11-34/11-32	
Crank arm length (mm)	160.0	-	-	-	-	-	-	
	165.0	-	-	-	-	-	-	
	167.5	-	-	-	-	-	-	
	170.0	X	X	X	X	X	X	
	172.5	-	-	-	-	-	-	
	175.0	X	X	X	X	X	X	
	177.5	-	-	-	-	-	-	
Chain		Super Narrow HG for 9-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	Super Narrow HG for 9-speed	HG-X 10-speed	
HOLLOWTECH II Technology		-	-	-	-	-	-	
integrated arm adapter		-	X	X	X	X	-	
2-piece crank construction		X	X	X	X	X	-	
HOLLOWTECH crank arm		-	-	-	-	-	X	
OCTALINK technology		-	-	-	-	-	X	
Recommended bottom bracket	Threaded (normal)	SM-BB51	SM-BB51	SM-BB51	SM-BB51	SM-BB50	BB-ES25	
	Threaded (E-type)	-	SM-BB51	-	-	-	-	
	Threaded (chain case)	SM-BB51	-	SM-BB51	SM-BB51	SM-BB50	-	
	Pressfit	-	-	-	-	-	-	
Axle length of BB-UN / ES (mm)	Threaded (normal)	-	-	-	-	-	113	
	Threaded (E-type)	-	-	-	-	-	-	
	Threaded (chain case)	-	-	-	-	-	-	
Threaded BB shell width	68 / 73mm	X	X	X	X	X	X	
	83mm	-	-	-	-	-	-	
Chain case compatible		X	-	X	X	X	-	
Chain line (mm)		50	50	50	50	50	50	
With crank fixing bolt		X	X	X	X	X	X	
Fixing hexagon bolt type (8mm)		-	-	-	-	-	X	
Fixing bolt type (14mm)		-	-	-	-	-	-	
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	
Average weight(175mm)		-	-	-	-	-	-	
Note							SHIMANO logo	

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CI-DECK

Front Chainwheel

Series		Non-Series	Non-Series	Non-Series	ALIVIO	ALIVIO	ALIVIO
Model no.		FC-M521	FC-T521	FC-T521	FC-M430	FC-M431	FC-M431
Recommended chain stay length (mm)		420	450	450	420	420	420
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
Rear speeds		9	10	10	9	9	9
Chain ring combination		44-32-22T/48-36-26T	48-36-26	44-32-24	44-32-22T	44-32-22T	48-36-26T
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
P.C.D. (mm)		104/64	104/64	104/64	104/64	104/64	104/64
Assumed rear sprocket teeth		11-36/11-34/11-32/11-28	11-28T/12-28T/12-30T/11-32T/11-34T	11-28T/12-28T/12-30T/11-32T/11-34T	11-36/11-34/11-32/11-28	11-36/11-34/11-32/11-28	11-36/11-34/11-32/11-28
Crank arm length (mm)	160.0	-	-	-	-	-	-
	165.0	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
180.0		-	-	-	-	-	-
Chain		Super Narrow HG for 9-speed	HG-X 10-speed	HG-X 10-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed
HOLLOWTECH II Technology		-	-	-	-	-	-
integrated arm adapter		-	-	-	-	-	-
2-piece crank construction		-	-	-	-	-	-
HOLLOWTECH crank arm		X	X	X	-	-	-
OCTALINK technology		X	X	X	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-ES25-AK	BB-ES25	BB-ES25	BB-UN26	BB-UN26	BB-UN26
	Threaded (E-type)	BB-ES25-E	BB-ES25-E	BB-ES25-E	BB-UN26-E	-	-
	Threaded (chain case)	BB-ES25-AK	BB-ES25-AK	BB-ES25-AK	-	BB-UN26-K	BB-UN26-K
	Pressfit	-	-	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	121-AK	121-AK	121-AK	LL113	LL123	LL123
	Threaded (E-type)	121-E*	121-E*	121-E*	LL113-E	-	-
	Threaded (chain case)	121-AK	121-AK	121-AK	-	LL123-K	LL123-K
Threaded BB shell width	68 / 73mm	X	X	X	X	X	X
	83mm	-	-	-	-	-	-
Chain case compatible		X	X	X	-	X	X
Chain line (mm)		50	50	50	50	50	50
With crank fixing bolt		X	X	X	X	X	X
Fixing hexagon bolt type (8mm)		X	X	X	X	X	X
Fixing bolt type (14mm)		-	-	-	-	-	-
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
Average weight(175mm)		-	-	-	-	-	-
Note		* In case of no chain case used, 68mm shell width: 121 also can be used, 73mm BB shell width : 121 must be used			SHIMANO logo	SHIMANO logo	SHIMANO logo

Front Chainwheel

Series		ALIVIO	ALIVIO	ALIVIO	ALIVIO	ALIVIO	ACERA
Model no.		FC-M430-8	FC-M430-8	FC-M430-8	FC-M431-8	FC-M431-8	FC-M391
Recommended chain stay length (mm)		420	420	420	420	420	420
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	-	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
Rear speeds		9	9	9	9	9	9
Chain ring combination		44-32-22T	44-32-22T	44-32-22T	44-32-22T	48-36-26T	44-32-22T 48-36-26T
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
P.C.D. (mm)		104/64	104/64	104/64	104/64	104/64	104/64
Assumed rear sprocket teeth		11-36/11-34/11-32/11-28	11-36/11-34/11-32/11-28	11-36/11-34/11-32/11-28	11-36/11-34/11-32/11-28	11-36/11-34/11-32/11-28	11-36/11-34/11-32/11-28
Crank arm length (mm)	160.0	-	-	-	-	-	-
	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	-	-	-	-	-	-
	180.0	-	-	-	-	-	-
Chain		Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed
HOLLOWTECH II Technology		-	-	-	-	-	-
integrated arm adapter		-	-	-	-	-	X
2-piece crank construction		-	-	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK technology		X	X	X	X	X	-
Recommended bottom bracket	Threaded (normal)	BB-ES25	BB-ES25	BB-ES25	BB-ES25	BB-ES25	BB-UN26
	Threaded (E-type)	BB-ES25-E	BB-ES25-E	BB-ES25-E	-	-	-
	Threaded (chain case)	-	-	-	BB-ES25-K	BB-ES25-K	BB-UN26-K
	Pressfit	-	-	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	118	118	118	126	126	LL123
	Threaded (E-type)	118-E	118-E	118-E	-	-	-
	Threaded (chain case)	-	-	-	126-K	126-K	LL123-K
Threaded BB shell width	68 / 73mm	X	X	X	X	X	X
	83mm	-	-	-	-	-	-
Chain case compatible		-	-	-	X	X	X
Chain line (mm)		50	50	50	50	50	50
With crank fixing bolt		X	X	X	X	X	X
Fixing hexagon bolt type (8mm)		X	X	X	X	X	X
Fixing bolt type (14mm)		-	-	-	-	-	-
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
Average weight(175mm)		-	-	-	-	-	-
Note		SHIMANO / ALIVIO Logo	With alloy outer chain ring, SHIMANO logo	SHIMANO / ALIVIO Logo	SHIMANO / ALIVIO Logo	SHIMANO / ALIVIO Logo	SHIMANO logo, * 48-36-26 Silver with CG spec

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CI-DECK

Front Chainwheel

Series		ACERA	Non-Series	ACERA	ACERA	ACERA	ALTUS
Model no.		FC-M391-8	FC-M371	FC-M361	FC-M361	FC-M361-8	FC-M311
Recommended chain stay length (mm)		420	420	420	420	420	420
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
Rear speeds		9	9	8/7	8/7	8/7	8/7
Chain ring combination		44-32-22T 48-36-26T	44-32-22T 48-36-26T	42-32-22T	48-38-28T	42-32-22T	42-32-22T
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
P.C.D. (mm)		104/64	Riveted	104/64	104/64	104/64	Riveted
Assumed rear sprocket teeth		11-36/11-34/11-32/11-28	11-36/11-34/11-32/11-28	11-34/11-32/11-30/11-28	11-34/11-32/11-30/11-28	11-34/11-32/11-30/11-28	11-34/11-32/11-30/11-28
Crank arm length (mm)	160.0	-	-	-	-	-	-
	165.0	-	X	X*	-	-	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
	180.0	-	-	-	-	-	-
Chain		Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	HG	HG	HG	HG
HOLLOWTECH II Technology		-	-	-	-	-	-
integrated arm adapter		X	-	X	X	X	-
2-piece crank construction		-	-	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK technology		X	-	-	-	X	-
Recommended bottom bracket	Threaded (normal)	BB-ES25	BB-UN26	BB-UN26	BB-UN26	BB-ES25	BB-UN26
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	BB-ES25-K	BB-UN26-K	BB-UN26-K	BB-UN26-K	BB-ES25-K	BB-UN26-K
	Pressfit	-	-	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	126	LL123	LL123	LL123	126	LL123
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	126-K	LL123-K	LL123-K	LL123-K	126-K	LL123-K
Threaded BB shell width	68 / 73mm	X	X	X	X	X	X
	83mm	-	-	-	-	-	-
Chain case compatible		X	X	X	X	X	X
Chain line (mm)		50	50	50	50	50	50
With crank fixing bolt		X	X	X	X	X	X
Fixing hexagon bolt type (8mm)		X	X	X	X	X	X
Fixing bolt type (14mm)		-	-	-	-	-	-
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
Average weight(175mm)		-	-	-	-	-	-
Note		SHIMANO / ACERA Logo	SHIMANO logo	SHIMANO logo, * 48-38-28 Silver with CG spec	SHIMANO logo	SHIMANO logo	SHIMANO logo

Front Chainwheel

Series		ALTUS	ALTUS	Non-Series	Non-Series	Non-Series	Non-Series
Model no.		FC-M311	FC-M311-8	FC-M171-A	FC-M171	FC-M171	FC-M131
Recommended chain stay length (mm)		420	420	430	430	430	430
Color	1	Black	Black	4 color variations	4 color variations	4 color variations	Series color
	2	Silver	-	-	-	-	-
	3	-	-	-	-	-	-
Rear speeds		8/7	8/7	8/7/6	8/7/6	8/7/6	8/7/6
Chain ring combination		48-38-28	42-32-22T	48-38-28T	48-38-28T	42-34-24T	42-34-24T
Gear arms		4arm	4arm	4arm	4arm	4arm	4arm
P.C.D. (mm)		Riveted	Riveted	Riveted	Riveted	Riveted	Riveted
Assumed rear sprocket teeth		11-34/11-32/11-30/11-28	11-34/11-32/11-30/11-28	11-34/11-32/11-30/11-28	11-34/11-32/11-30/11-28	11-34/11-32/11-30/11-28	11-34/11-32/11-30/11-28
Crank arm length (mm)	160.0	-	-	-	-	-	-
	165.0	-	-	X*	X*	X*	-
	167.5	-	-	-	-	-	-
	170.0	X	X	X	X	X	X
	172.5	-	-	-	-	-	-
	175.0	X	X	X	X	X	-
	177.5	-	-	-	-	-	-
	180.0	-	-	-	-	-	-
Chain		HG	HG	HG/UG	HG/UG	HG/UG	HG/UG
HOLLOWTECH II Technology		-	-	-	-	-	-
integrated arm adapter		-	-	-	-	-	-
2-piece crank construction		-	-	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK technology		-	X	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-UN26	BB-ES25	BB-UN26	BB-UN26	BB-UN26	BB-UN26
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	BB-UN26-K	BB-ES25-K	BB-UN26-K	BB-UN26-K	BB-UN26-K	BB-UN26-K
	Pressfit	-	-	-	-	-	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	LL123	126	D-NL	D-NL	D-NL	D-NL
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	LL123-K	126-K	D-NL K	D-NL K	D-NL K	D-NL K
Threaded BB shell width	68 / 73mm	X	X	X	X	X	X
	83mm	-	-	-	-	-	-
Chain case compatible		X	X	X	X	X	X
Chain line (mm)		50	50	47.5 / 47.5+t	47.5 / 47.5+t	47.5 / 47.5+t	47.5 / 47.5+t
With crank fixing bolt		X	X	-	-	-	-
Fixing hexagon bolt type (8mm)		X	X	-	-	-	-
Fixing bolt type (14mm)		-	-	X	X	X	X
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
Average weight(175mm)		-	-	-	-	-	-
Note		SHIMANO logo	SHIMANO logo	SHIMANO logo, * available for standard color spec	SHIMANO logo, * available for standard color spec	SHIMANO logo, * available for standard color spec	SHIMANO logo

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CI-DECK

Front Chainwheel

Series		Non-Series
Model no.		FC-M131
Recommended chain stay length (mm)		430
Color	1	Series color
	2	-
	3	-
Rear speeds		8/7/6
Chain ring combination		48-38-28T
Gear arms		4arm
P.C.D. (mm)		Riveted
Assumed rear sprocket teeth		11-34/11-32/11-30/11-28
Crank arm length (mm)	160.0	-
	165.0	-
	167.5	-
	170.0	X
	172.5	-
	175.0	-
	177.5	-
	180.0	-
Chain		HG/UG
HOLLOWTECH II Technology		-
integrated arm adapter		-
2-piece crank construction		-
HOLLOWTECH crank arm		-
OCTALINK technology		-
Recommended bottom bracket	Threaded (normal)	BB-UN26
	Threaded (E-type)	-
	Threaded (chain case)	BB-UN26-K
	Pressfit	-
Axle length of BB-UN / ES (mm)	Threaded (normal)	D-NL
	Threaded (E-type)	-
	Threaded (chain case)	D-NL K
Threaded BB shell width	68 / 73mm	X
	83mm	-
Chain case compatible		X
Chain line (mm)		47.5 / 47.5+t
With crank fixing bolt		-
Fixing hexagon bolt type (8mm)		-
Fixing bolt type (14mm)		X
Optional chain guard	with bash guard	-
	with chain guard	X
	without chain / bash guard	X
Average weight(175mm)		-
Note		SHIMANO logo

Bottom Bracket

Series			Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.			BB-ES51	BB-ES51-E	BB-ES51-K	BB-ES51-AK	BB-ES25	BB-ES25-E
Structure	Standard		X	-	-	-	X	-
	E-type		-	X	-	-	-	X
	For chain case		-	-	X	X	-	-
Spindle	Hollow pipe		X	X	X	X	X	X
	Splined spindle		X	X	X	X	X	X
	Square type		-	-	-	-	-	-
Axle length / BB spec.	HOLLOW-TECH II	83mm (BC1.37)	-	-	-	-	-	-
		68mm (BC1.37)	-	-	-	-	-	-
		73mm (BC1.37)	-	-	-	-	-	-
	MM110	68mm (BC1.37)	-	-	-	-	-	-
		70mm (M36)	-	-	-	-	-	-
		73mm (BC1.37)	-	-	-	-	-	-
	LL113	68mm (BC1.37)	-	-	-	-	-	-
		70mm (M36)	-	-	-	-	-	-
		73mm (BC1.37)	-	-	-	-	-	-
	113	68mm (BC1.37)	X	X	-	-	X	X
		70mm (M36)	X	-	-	-	X	-
		73mm (BC1.37)	X	-	-	-	X	-
	YL117	68mm (BC1.37)	-	-	-	-	-	-
	117.5	68mm (BC1.37)	-	-	-	-	-	-
	118	68mm (BC1.37)	X	-	-	-	X	X
		70mm (M36)	X	-	-	-	X	-
		73mm (BC1.37)	X	X	-	-	X	X
	XL118	68mm (BC1.37)	-	-	-	-	-	-
		70mm (M36)	-	-	-	-	-	-
		73mm (BC1.37)	-	-	-	-	-	-
	121	68mm (BC1.37)	X	X	X	X	X	X
		70mm (M36)	X	-	-	-	-	-
		73mm (BC1.37)	X	-	-	-	X	X
	126	68mm (BC1.37)	X	-	-	-	X	X
		73mm (BC1.37)	X	X	-	-	X	X
	D-NL (122.5mm)	68mm (BC1.37)	-	-	-	-	-	-
		70mm (M36)	-	-	-	-	-	-
		73mm (BC1.37)	-	-	-	-	-	-
	D-EL (127.5mm)	68mm (BC1.37)	-	-	-	-	-	-
		70mm (M36)	-	-	-	-	-	-
73mm (BC1.37)		-	-	-	-	-	-	
LL123	68mm (BC1.37)	-	-	-	-	-	-	
	70mm (M36)	-	-	-	-	-	-	
	73mm (BC1.37)	-	-	-	-	-	-	
123SP	68mm (BC1.37)	-	-	-	-	-		
130	68mm (BC1.37)	-	-	-	-	-		
Average weight								
Note						For FC-M521 Only		

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Bottom Bracket

Series			Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.			BB-ES25-K	BB-ES25-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	-	-	-	-
	Splined spindle		X	X	-	-	-	-
	Square type		-	-	X	X	X	X
Axle length / BB spec.	HOLLOWTECH II	83mm (BC1.37)	-	-	-	-	-	-
		68mm (BC1.37)	-	-	-	-	-	-
		73mm (BC1.37)	-	-	-	-	-	-
	MM110	68mm (BC1.37)	-	-	X	X*	X	X
		70mm (M36)	-	-	X	X	-	-
		73mm (BC1.37)	-	-	X	X	-	-
	LL113	68mm (BC1.37)	-	-	X	X*	X	-
		70mm (M36)	-	-	X	X	-	-
		73mm (BC1.37)	-	-	X	X	X	-
	113	68mm (BC1.37)	X	-	-	-	-	-
		70mm (M36)	-	-	-	-	-	-
		73mm (BC1.37)	-	-	-	-	-	-
	YL117	68mm (BC1.37)	-	-	-	X* (CL:47.5) X (CL:45)	X* (CL:47.5)	X* (CL:47.5)
	117.5	68mm (BC1.37)	-	-	-	X	-	X
	118	68mm (BC1.37)	X	-	-	-	-	-
		70mm (M36)	-	-	-	-	-	-
		73mm (BC1.37)	X	-	-	-	-	-
	XL118	68mm (BC1.37)	-	-	X	-	-	-
		70mm (M36)	-	-	X	-	-	-
		73mm (BC1.37)	-	-	X	-	-	-
	121	68mm (BC1.37)	X	X*	-	-	-	-
		70mm (M36)	-	-	-	-	-	-
		73mm (BC1.37)	X	-	-	-	-	-
	126	68mm (BC1.37)	X	-	-	-	-	-
		73mm (BC1.37)	X	-	-	-	-	-
		68mm (BC1.37)	-	-	X	X*	-	X*
	D-NL (122.5mm)	70mm (M36)	-	-	X	-	-	-
		73mm (BC1.37)	-	-	X	-	-	-
		68mm (BC1.37)	-	-	X	X*	-	-
	D-EL (127.5mm)	70mm (M36)	-	-	-	-	-	-
73mm (BC1.37)		-	-	-	-	-	-	
68mm (BC1.37)		-	-	-	X	X	X (t=1.8)	
LL123	70mm (M36)	-	-	-	X	-	-	
	73mm (BC1.37)	-	-	-	-	X	-	
	68mm (BC1.37)	-	-	-	X	-	-	
123SP	68mm (BC1.37)	-	-	-	X	-	-	
130	68mm (BC1.37)	-	-	-	X	-	-	
Average weight								
Note				* with 1.8mm spacer version also available for FC-M521		*w/Fixing Bolts	*w/Fixing Bolts	*w/Fixing Bolts

Bottom Bracket

HOLLOWTECH II

Series		XTR	XTR	Non-Series	SAINT/ZEE	SAINT/ZEE	Non-Series
Model no.		SM-BB93	SM-BB94-41A	SM-BB71-41A	SM-BB80	SM-BB71-41C	SM-BB70
HOLLOWTECH II BB		X	X	X	X	X	X
Threaded BB type		X	-	-	X	-	X
Press-Fit type		-	X	X	-	X	-
Threaded BB shell width	68 / 73mm	X	-	-	X	-	X
	83mm	-	-	-	X	-	-
Press-Fit BB shell width	92mm	-	X	X	-	-	-
	89.5mm	-	X	X	-	-	-
	84.5mm	-	-	-	-	-	-
	104.5mm	-	-	-	-	X	-
	107mm	-	-	-	-	X	-
Note		W/ Aluminum spacer					

Bottom Bracket

HOLLOWTECH II

Series		Non-Series
Model no.		SM-BB51
HOLLOWTECH II BB		X
Threaded BB type		X
Press-Fit type		-
Threaded BB shell width	68 / 73mm	X
	83mm	-
Press-Fit BB shell width	92mm	-
	89.5mm	-
	84.5mm	-
	104.5mm	-
107mm		-
Note		

Cassette Sprocket

Series		XTR	XTR	DEORE XT	DEORE XT	DEORE XT	SAINT
Model no.		CS-M980	CS-M980	CS-M771-10	CS-M771-10	CS-M771-10	CS-HG80-9
Type		HG	HG	HG	HG	HG	HG
Speeds		10-speed	10-speed	10-speed	10-speed	10-speed	9-speed
Combination *Steel cog on spider **Titanium cog on spider	10th	36**	34**	36*	34*	32*	-
	9th	32**	30**	32*	30*	28*	28*
	8th	28**	26**	28*	26*	25*	24*
	7th	24**	23**	24*	23*	22*	21*
	6th	21**	21**	21*	21*	20*	18
	5th	19*	19*	19*	19*	18*	16
	4th	17	17	17	17	16	14
	3rd	15	15	15	15	14	13
	2nd	13	13	13	13	12	12
1st	11	11	11	11	11	11	
Group		bk	bj	bk	bj	bl	bg
Spider arm (Pcs)		3	3	2	2	2	1
Aluminum lock ring		X	X	X	X	X	-
Recommended chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed
Average weight		272g	255g	343g	323g	294g	231g
Note							

Series		DEORE LX	SLX	SLX	SLX	SLX	DEORE LX
Model no.		CS-HG80-9	CS-HG81-10	CS-HG81-10	CS-HG81-10	CS-HG80-9	CS-HG80-9
Type		HG	HG	HG	HG	HG	HG
Speeds		9-speed	10-speed	10-speed	10-speed	9-speed	9-speed
Combination *Steel cog on spider **Titanium cog on spider	10th	-	36*	32*	34*	-	-
	9th	28*	32*	28*	30*	32*	32*
	8th	24*	28*	25*	26*	28*	28*
	7th	21*	24	22	23	24*	24*
	6th	18	21	20	21	21	21
	5th	16	19	18	19	18	18
	4th	14	17	16	17	16	16
	3rd	13	15	14	15	14	14
	2nd	12	13	12	13	12	12
1st	11	11	11	11	11	11	
Group		bg	bk	bl	bj	ar	ar
Spider arm (Pcs)		1	1	1	1	1	1
Aluminum lock ring		-	-	-	-	-	-
Recommended chain		HG 9-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
Average weight		231g	369g	317g	351g	292g	292g
Note				Use CN-7901/6701/5701/4601 with Road double FC			

Cassette Sprocket

Series	SLX	Non-Series	Non-Series	Non-Series	DEORE	DEORE	
Model no.	CS-HG80-9	CS-HG62-10	CS-HG62-10	CS-HG62-10	CS-HG61-9	CS-HG61-9	
Type	HG	HG	HG	HG	HG	HG	
Speeds	9-speed	10-speed	10-speed	10-speed	9-speed	9-speed	
Combination *Steel cog on spider **Titanium cog on spider	10th	-	32	34	36	-	-
	9th	34*	28	30	32	28	32
	8th	30*	25	26	28	24	28
	7th	26*	22	23	24	21	24
	6th	23	20	21	21	18	21
	5th	20	18	19	19	16	18
	4th	17	16	17	17	14	16
	3rd	15	14	15	15	13	14
	2nd	13	12	13	13	12	12
1st	11	11	11	11	11	11	
Group	au	bL	bj	bk	bg	ar	
Spider arm (Pcs)	1	1	1	1	-	-	
Aluminum lock ring	-	-	-	-	-	-	
Recommended chain	HG 9-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	
Average weight	315g	374g	-	-	-	-	
Note		Use CN-7901/ 6701/5701/4601 with Road double FC	Use CN-7901/ 6701/5701/4601 with Road double FC	Use CN-7901/ 6701/5701/4601 with Road double FC			

Series	DEORE	Non-Series	SHIMANO	ALIVIO	ALIVIO	ACERA
Model no.	CS-HG61-9	CS-HG61-9	CS-HG50-10	CS-HG50-9	CS-HG50-9	CS-HG30-9
Type	HG	HG	HG	HG	HG	HG
Speeds	9-speed	9-speed	10-speed	9-speed	9-speed	9-speed
Combination *Steel cog on spider **Titanium cog on spider	10th	-	-	36*	-	-
	9th	34	36	32*	32	34
	8th	30	32	28	28	30
	7th	26	28	24	24	26
	6th	23	24	21	21	23
	5th	20	21	19	18	20
	4th	17	18	17	16	17
	3rd	15	16	15	14	15
	2nd	13	14	13	12	13
1st	11	12	11	11	11	
Group	au	bh	bk	ar	au	ar
Spider arm (Pcs)	-	-	1	-	-	-
Aluminum lock ring	-	-	-	-	-	-
Recommended chain	HG 9-speed	HG 9-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed
Average weight	-	-	-	-	-	-
Note		29er drive train				

Cassette Sprocket

Series		ACERA	Non-Series	Non-Series	ALIVIO	ALIVIO	ALIVIO
Model no.		CS-HG30-9	CS-HG20-9	CS-HG20-9	CS-HG51-8	CS-HG51-8	CS-HG51-8
Type		HG	HG	HG	HG	HG	HG
Speeds		9-speed	9-speed	9-speed	8-speed	8-speed	8-speed
Combination *Steel cog on spider **Titanium cog on spider	10th	-	-	-	-	-	-
	9th	34	32	34	-	-	-
	8th	30	28	30	28	30	32
	7th	26	24	26	24	26	28
	6th	23	21	23	21	23	24
	5th	20	19	20	19	20	21
	4th	17	17	17	17	17	18
	3rd	15	15	15	15	15	15
	2nd	13	13	13	13	13	13
1st	11	11	11	11	11	11	
Group		au	bo	bn	bf	an	aw
Spider arm (Pcs)		-	-	-	-	-	-
Aluminum lock ring		-	-	-	-	-	-
Recommended chain		HG 9-speed	HG 9-speed	HG 9-speed	IG/HG	IG/HG	IG/HG
Average weight		-	-	-	-	-	-
Note							

Series		ACERA	ACERA	ACERA	ALTUS	ALTUS	ALTUS
Model no.		CS-HG41-8	CS-HG41-8	CS-HG41-8	CS-HG31-8	CS-HG31-8	CS-HG31-8
Type		HG	HG	HG	HG	HG	HG
Speeds		8-speed	8-speed	8-speed	8-speed	8-speed	8-speed
Combination *Steel cog on spider **Titanium cog on spider	10th	-	-	-	-	-	-
	9th	-	-	-	-	-	-
	8th	30	32	34	30	32	34
	7th	26	28	26	26	28	26
	6th	23	24	23	23	24	23
	5th	20	21	20	20	21	20
	4th	17	18	17	17	18	17
	3rd	15	15	15	15	15	15
	2nd	13	13	13	13	13	13
1st	11	11	11	11	11	11	
Group		an	aw	ao	an	aw	ao
Spider arm (Pcs)		-	-	-	-	-	-
Aluminum lock ring		-	-	-	-	-	-
Recommended chain		IG/HG	IG/HG	IG/HG	IG/HG	IG/HG	IG/HG
Average weight		-	-	-	-	-	-
Note							

Cassette Sprocket

Series		Non-Series	Non-Series	Non-Series	DXR
Model no.		CS-HG41-7	CS-HG20-7	CS-HG20-7	CS-MX66
Type		HG	HG	HG	Single sprocket for FH-MX70
Speeds		7-speed	7-speed	7-speed	Single
Combination *Steel cog on spider **Titanium cog on spider	10th	-	-	-	-
	9th	-	-	-	-
	8th	-	-	-	-
	7th	28	32	28	-
	6th	24	26	24	-
	5th	21	21	21	-
	4th	18	18	18	-
	3rd	15	16	16	-
	2nd	13	14	14	-
1st	11	12	12	-	
Group		ac	bp	bm	-
Spider arm (Pcs)		-	-	-	-
Aluminum lock ring		-	-	-	-
Recommended chain		IG/HG	IG/HG	IG/HG	1/2" x 3/32"
Average weight		-	-	-	-
Note					For BMX racing

Multiple Freewheel

Series		Tourney	Tourney	Tourney	Tourney	Tourney	Tourney
Model no.		MF-HG37	MF-TZ31-CP	MF-TZ31	MF-TZ21-CP	MF-TZ21	MF-TZ30-CP
Type		HG	HG/UG	HG/UG	HG/UG	HG/UG	HG/UG
Speeds		7-speed	7-speed	7-speed	7-speed	7-speed	6-speed
Combination	10th	-	-	-	-	-	-
	9th	-	-	-	-	-	-
	8th	-	-	-	-	-	-
	7th	28	34	34	28	28	-
	6th	24	24	24	24	24	34
	5th	21	22	22	22	22	24
*Steel cog on spider	4th	19	20	20	20	20	21
**Titanium cog on spider	3rd	17	18	18	18	18	18
	2nd	15	16	16	16	16	16
	1st	13	14	14	14	14	14
Group		bz	-	-	-	-	-
Spider Arm (Pcs)		-	-	-	-	-	-
Aluminum lock ring		-	-	-	-	-	-
Recommended 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

Multiple Freewheel

Series		Tourney	Tourney	Tourney
Model no.		MF-TZ30	MF-TZ20-CP	MF-TZ20
Type		HG/UG	HG/UG	HG/UG
Speeds		6-speed	6-speed	6-speed
Combination	10th	-	-	-
	9th	-	-	-
	8th	-	-	-
	7th	-	-	-
	6th	34	28	28
	5th	24	24	24
*Steel cog on spider	4th	21	21	21
**Titanium cog on spider	3rd	18	18	18
	2nd	16	16	16
	1st	14	14	14
Group		-	-	-
Spider Arm (Pcs)		-	-	-
Aluminum lock ring		-	-	-
Recommended chain		HG/UG	HG/UG	HG/UG
Average weight		-	-	-
Note			With chain protector	

Chain

Series	XTR	XTR / SAINT	DEORE XT	SLX	SLX	DEORE LX	Non-Series
Model no.	CN-M981	CN-7701	CN-HG95	CN-HG75	CN-HG73	CN-HG73	CN-HG54
Type	HG-X 10-speed	HG 9-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	HG-X 10-speed
Pin link plate	SIL-TEC	Zinc-Alloy Plated	SIL-TEC	Gray	Gray	Gray	Gray
Roller link plate	SIL-TEC	Zinc-Alloy Plated	SIL-TEC	SIL-TEC	Gray	Gray	Brown
Chromizing treatment link pin	X	X	X	X	X	X	X
Hollow pin	X	-	-	-	-	-	-
Average weight					304g (116links)	304g (116links)	273g (114links)
Note							

Series	DEORE	ALTUS	Non-Series	Tourney
Model no.	CN-HG53	CN-HG50	CN-HG40	CN-UG51
Type	HG 9-speed	HG	HG	UG
Pin link plate	Gray	Brown	Gray	Gray
Roller link plate	Brown	Brown	Brown	Brown
Chromizing treatment link pin	X	X	-	-
Hollow pin	-	-	-	-
Average weight	304g (114links)	-	-	-
Note				

Freehub

Standard

Series		DXR	DEORE XT	DEORE LX	DEORE	Non-Series	Non-Series
Model no.		FH-MX71	FH-T780	FH-T670	FH-T610	FH-M430	FH-RM70
Color	1	Series color	Black	Black	Black	Black	Black
	2	-	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
Spoke holes	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
	Others	-	-	-	-	-	-
	P.C.D. Left / Right (mm)	45	44/45	45	44/45	45	45
Freewheel body	Speeds	1	9/10	9/10	9/10	8/9	8/9
	Quick engagement	X (36points/360°)	X (36points/360°)	-	-	-	-
	Contact sealing	X	X	X	X	-	-
O.L.D. (mm)		112	135	135	135	135	135
Assumed rear sprocket teeth (CP)		14/15/16/18T	11-28/12-28/11-32/11-34/11-36T	11-28/12-28/11-32/11-34/11-36T	11-28T/12-30T/11-32T/11-34T/11-36T	11-28/11-30/11-32/11-34/12-36T	11-28/11-30/11-32/11-34/12-36T
Flange diameter (mm)		53.8	52.8/ 53.8 (L/R)	53.8	53.8	53.8	53.8
Flange distance (mm)		57.4	57.4	59.2	59.2	59.2	59.2
Offset (mm)		0	6.6	7.6	7.8	7.6	7.5
Fixing method		Nut	QR	QR	QR	QR	QR
QR	Length	166mm	-	-	-	-	X
		168mm	-	X	X	X	-
		170mm	-	-	-	-	X
		173mm	-	X	X	X	X
Axle (QR type)	Length (mm)	-	146	146	146	146	146
	Diameter (mm)	-	14	10	10	10	10
Axle (Thru type)	Length (mm)	-	-	-	-	-	-
	Diameter (mm)	-	-	-	-	-	-
Contact seal		X	X	X	X	X	X
Internal grease sleeve		X	X	X	X	-	-
Bearing	Stainless ball	X	-	-	-	-	-
Disc mount	Center lock	-	-	-	-	-	-
	6-bolt	-	-	-	-	-	-
Assumed minimum front chainwheel teeth		-	22T	22T	22T	22T	22T
Spoke protector		For BMX racing	CP-FH56/FH53/32H2/FH35/36H2/FH50	CP-FH56/FH53/32H2/FH35/36H2/FH50	CP-FH53/56	CP-FH35/50/53/56	CP-FH35/50/53/56
Center lock mount cover option		-	-	-	-	-	-
Average weight* *w/o axle, QR nor lockring		448g (w/ fixing bolt)	338g	365g	365g	-	-
Note		For BMX					

Freehub

Standard

Series		Non-Series	Non-Series	Non-Series	Non-Series
Model no.		FH-RM30-8-QR	FH-RM30-8-NT	FH-RM30-7-QR	FH-RM30-7-NT
Color	1	Black	Black	Black	Black
	2	Silver	Silver	Silver	Silver
	3	-	-	-	-
Spoke holes	24H	-	-	-	-
	28H	-	-	-	-
	32H	X	X	-	-
	36H	X	X	X	X
	Others	-	-	-	-
	P.C.D. Left / Right (mm)	45	45	45	45
Freewheel body	Speeds	8/9	8/9	7	7
	Quick engagement	-	-	-	-
	Contact sealing	-	-	-	-
O.L.D. (mm)		135	135	130/135	135
Assumed rear sprocket teeth (CP)		11-28/11-30/11-32/11-34/12-36T	11-28/11-30/11-32/11-34/12-36T	11-28/12-28/12-32T	11-28/12-28/12-32T
Flange diameter (mm)		53.8	53.8	53.8	53.8
Flange distance (mm)		59.2	59.2	59.2	59.2
Offset (mm)		7.5	7.5	135;5.5	135;5.5
Fixing method		QR	Nut	QR	Nut
QR	Length	166mm	X	-	X
		168mm	-	-	-
		170mm	X	-	X
		173mm	-	-	-
Axle (QR type)	Length (mm)	146	-	141/146	-
	Diameter (mm)	10	-	10	-
Axle (Thru type)	Length (mm)	-	185	-	185
	Diameter (mm)	-	10	-	10
Contact seal		-	-	-	-
Internal grease sleeve		-	-	-	-
Bearing	Stainless ball	-	-	-	-
Disc mount	Center lock	-	-	-	-
	6-bolt	-	-	-	-
Assumed minimum front chainwheel teeth		22T	22T	24T	24T
Spoke protector		CP-FH35/50/53/56	CP-FH35/50/53/56	CP-FH35/50/53/56	CP-FH35/50/53/56
Center lock mount cover option		-	-	-	-
Average weight* *w/o axle, QR nor locking		-	-	-	-
Note					

SL

BL

ST

RD

FD

BR

RT

RTAD

SMBH

FC

BB

CS

MF

CN

FH

HB

WH

PD

CI-DECK

Freehub

Disc Brake

Series		XTR	XTR	SAINT	SAINT	SAINT	DEORE XT	
Model no.		FH-M985	FH-M988	FH-M820	FH-M825	FH-M828	FH-M785	
Color	1	Series color	Series color	Series color	Series color	Series color	Black	
	2	-	-	-	-	-	Silver	
	3	-	-	-	-	-	-	
Spoke holes	24H	-	-	-	-	-	-	
	28H	-	-	-	-	-	-	
	32H	X	X	X	X	X	X	
	36H	-	-	X	X	X	X	
	Others	-	-	-	-	-	-	
	P.C.D. Left / Right (mm)	44/45	44/45	44/45	44/45	44/45	44/45	
Freewheel body	Speeds	9/10	9/10	9/10	9/10	9/10	9/10	
	Quick engagement	X (36points/360°)	X (36points/360°)	X (36points/360°)	X (36points/360°)	X (36points/360°)	X (36points/360°)	
	Contact Sealing	X	X	X	X	X	X	
O.L.D. (mm)		135	142	135	150	142	135	
Assumed rear sprocket teeth (CP)		11-32/11-34/11-36T	11-32/11-34/11-36T	11-25/11-28/12-30/11-32/11-34/11-36T	11-25/11-28/12-30/11-32/11-34/11-36T	11-25/11-28/12-30/11-32/11-34/11-36T	11-28/12-28/11-32/11-34/11-36T	
Flange diameter (mm)		52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)	
Flange distance (mm)		57.4	57.4	57.4	72.4	57.4	57.4	
Offset (mm)		6.6	6.6	6.4	6.6	6.4	6.6	
Fixing method		QR	E-Thru	Thru	Thru	Thru	QR	
QR	Length	166mm	-	-	-	-	-	
		168mm	X	-	-	-	X	
		170mm	-	-	-	-	-	
		173mm	X	-	-	-	-	X
Axle (QR type)	Length (mm)	146(M10)	-	-	-	-	146	
	Diameter (mm)	14	-	-	-	-	14	
Axle Type (Thru type)	Length x Inner Diameter (mm)	135x10	-	-	X	-	-	
		135x12	-	-	X	-	-	
		142x12	-	X	-	-	X	-
		150x12	-	-	-	X	-	-
Contact seal		X	X	X	X	X	X	
Internal grease sleeve		X	X	X	X	X	X	
Bearing	Stainless ball	X	X	X	X	X	-	
Disc mount	Center lock	X	X	X	X	X	X	
	6-bolt	-	-	-	-	-	-	
Assumed minimum front chainwheel teeth		22T	22T	34T	34T	34T	22T	
Spoke protector		CP-FH56/32H2/FH35	CP-FH56/32H2/FH35	CP-FH56/FH53/32H2/FH35/36H2/FH50	CP-FH56/FH53/32H2/FH35/36H2/FH50	CP-FH56/FH53/32H2/FH35/36H2/FH50	CP-FH56/FH53/32H2/FH35/36H2/FH50	
Center lock mount cover option		X	X	X	X	X	X	
Average weight* *w/o axle, QR nor lockring		261g	310g	347g (φ10) 333g (φ12)	348g	336g	330g	
Note		*LH cone: Hybrid				SM-AX75/65/55 are not recommended		

Freehub

Disc Brake

Series		DEORE XT	DEORE XT	SLX	SLX	DEORE LX	ZEE
Model no.		FH-M788	FH-M756	FH-M675	FH-M678	FH-T675	FH-M640
Color	1	Black	Black	Series color	Series color	Black	Series color
	2	Silver	Silver	-	-	Silver	-
	3	-	-	-	-	-	-
Spoke holes	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	-	X	X	-	X	X
	Others	-	-	-	-	-	-
	P.C.D. Left / Right (mm)	44/45	61	44/45	44/45	44/45	44/45
Freewheel body	Speeds	9/10	9/10	9/10	9/10	9/10	9/10
	Quick engagement	X (36points/360°)	-	X (32points/360°)	X (36points/360°)	-	X (36points/360°)
	Contact Sealing	X	X	X	X	X	X
O.L.D. (mm)		142	135	135	142	135	135
Assumed rear sprocket teeth (CP)		11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-28/12-28/11-32/11-34/11-36T	11-25/11-28/12-30/11-32/11-34/11-36T
Flange diameter (mm)		52.8/ 53.8 (L/R)	70.6	52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)
Flange distance (mm)		57.4	57.1	57.4	57.4	57.4	57.4
Offset (mm)		6.4	6.8	6.6	6.4	6.6	6.4
Fixing method		E-Thru	QR	QR	E-Thru	QR	Thru
QR	Length	166mm	-	-	-	-	-
		168mm	-	X	X	-	X
		170mm	-	-	-	-	-
		173mm	-	X	X	-	X
Axle (QR type)	Length (mm)	-	146	146	-	146	-
	Diameter (mm)	-	10	10	-	10	-
Axle Type (Thru type)	Length x Inner Diameter (mm)	135x10	-	-	-	-	X
		135x12	-	-	-	-	X
		142x12	X	-	-	X	-
		150x12	-	-	-	-	-
Contact seal		X	X	X	X	X	X
Internal grease sleeve		X	X	X	X	X	X
Bearing	Stainless ball	-	-	-	-	-	X
Disc mount	Center lock	X	-	X	X	X	X
	6-bolt	-	X	-	-	-	-
Assumed minimum front chainwheel teeth		22T	22T	22T	22T	22T	34T
Spoke protector		CP-FH56/32H2/FH35	CP-FH76/75	CP-FH56/FH53/32H2/FH35/36H2/FH50	CP-FH56/32H2/FH35	CP-FH56/FH53/32H2/FH35/36H2/FH50	CP-FH56/FH53/32H2/FH35/36H2/FH50
Center lock mount cover option		X	X	X	X	X	X
Average weight* *w/o axle, QR nor lockring		357g	426g	384g	357g	369g	375g (φ10) 350g (φ12)
Note							

SL

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RTAD

SMBH

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CI-DECK

Freehub

Disc Brake

Series		ZEE	ZEE	DEORE	DEORE	Non-Series	Non-Series
Model no.		FH-M645	FH-M648	FH-M615	FH-M618	FH-M629	FH-M529
Color	1	Series color	Series color	Black	Black	Black	Black
	2	-	-	Silver	-	-	-
	3	-	-	-	-	-	-
Spoke holes	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	-	-	-
	Others	-	-	-	-	-	-
	P.C.D. Left / Right (mm)	44/45	44/45	44/45	44/45	44/45	61
Freewheel body	Speeds	9/10	9/10	9/10	9/10	9/10	9/10
	Quick engagement	X (36points/360°)	X (36points/360°)	-	X (36points/360°)	X (32points/360°)	-
	Contact Sealing	X	X	X	X	X	X
O.L.D. (mm)		150	142	135	142	135	135
Assumed rear sprocket teeth (CP)		11-25/11-28/12-30/11-32/11-34/11-36T	11-25/11-28/12-30/11-32/11-34/11-36T	11-28/12-30/11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T	11-32/11-34/11-36T
Flange diameter (mm)		52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)	53.8	52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)	70.6
Flange distance (mm)		72.4	57.4	57.4	57.4	57.4	57.1
Offset (mm)		6.6	6.4	8.6	6.4	6.6	6.8
Fixing method		Thru	Thru	QR	E-Thru	QR	QR
QR	Length	166mm	-	-	-	-	-
		168mm	-	-	X	-	X
		170mm	-	-	-	-	-
		173mm	-	-	X	-	X
Axle (QR type)	Length (mm)	-	-	146	-	146	146
	Diameter (mm)	-	-	10	-	10	10
Axle Type (Thru type)	Length x Inner Diameter (mm)	135x10	-	-	-	-	-
		135x12	-	-	-	-	-
		142x12	-	X	-	X	-
		150x12	X	-	-	-	-
Contact seal		X	X	X	X	X	X
Internal grease sleeve		X	X	-	X	X	-
Bearing	Stainless ball	X	X	-	-	-	-
Disc mount	Center lock	X	X	X	X	X	-
	6-bolt	-	-	-	-	-	X
Assumed minimum front chainwheel teeth		34T	34T	22T	22T	22T	22T
Spoke protector		CP-FH56/FH53/32H2/FH35/36H2/FH50	CP-FH56/FH53/32H2/FH35/36H2/FH50	CP-FH53/56	CP-FH56/32H2/FH35	CP-FH56/FH53/32H2/FH35/36H2/FH50	CP-FH56/FH53/32H2/FH35/36H2/FH50
Center lock mount cover option		X	X	X	X	X	-
Average weight* *w/o axle, QR nor locking		363g	357g	372g	357g	-	-
Note			SM-AX75/65/55 are not recommended				

Freehub

Disc Brake

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	
Model no.		FH-M525A	FH-M475	FH-M435	FH-RM66	FH-RM35	
Color	1	Black	Black	Black	Black	Black	
	2	Silver	Silver	Silver	-	-	
	3	-	-	-	-	-	
Spoke holes	24H	-	-	-	-	-	
	28H	-	-	-	-	X*	
	32H	X	X	X	X	X	
	36H	X	X	X	X	X	
	Others	-	-	-	-	-	
	P.C.D. Left / Right (mm)	61	61	45	45	45	
Freewheel body	Speeds	9/10	8/9	8/9	8/9	8/9	
	Quick engagement	-	-	-	-	-	
	Contact Sealing	X	-	-	-	-	
O.L.D. (mm)		135	135	135	135	135	
Assumed rear sprocket teeth (CP)		11-32/11-34/11-36T	11-32/11-34/11-36T	11-28/11-30/11-32/11-34/12-36T	11-28/11-30/11-32/11-34/12-36T	11-28/11-30/11-32/11-34/12-36T	
Flange diameter (mm)		70.6	70.6	53.8	53.8	53.8	
Flange distance (mm)		57.1	57.1	57.4	57.4	57.4	
Offset (mm)		6.8	6.8	6.6	6.6	6.6	
Fixing method		QR	QR	QR	QR	QR	
QR	Length	166mm	-	X	-	X	
		168mm	X	-	X	-	
		170mm	-	X	X	X	X
		173mm	X	X	X	-	-
Axle (QR type)	Length (mm)	146	146	146	146	146	
	Diameter (mm)	10	10	10	10	10	
Axle Type (Thru type)	Length x Inner Diameter (mm)	135x10	-	-	-	-	
		135x12	-	-	-	-	
		142x12	-	-	-	-	
		150x12	-	-	-	-	
Contact seal		X	X	X	X	-	
Internal grease sleeve		-	-	-	-	-	
Bearing	Stainless ball	-	-	-	-	-	
Disc mount	Center lock	-	-	X	X	X	
	6-bolt	X	X	-	-	-	
Assumed minimum front chainwheel teeth		22T	22T	22T	22T	22T	
Spoke protector		CP-FH56/FH53/32H2/FH35/36H2/FH50	CP-FH56/FH53/32H2/FH35/36H2/FH50	CP-FH35/50/53/56	CP-FH35/50/53/56	CP-FH35/50/53/56	
Center lock mount cover option		-	-	X	X	X	
Average weight* *w/o axle, QR nor locking		-	-	-	-	-	
Note						* 166mm QR spec	

SL

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CI-DECK

Freehub

Roller Brake

Series		NEXAVE	Tourney	Non-Series
Model no.		FH-IM70	RH-IM10	FH-IM20
Color				
Spoke holes	28H	-	-	X
	32H	-	-	-
	36H	X	X	X
	Others	-	-	-
	P.C.D. (mm)	45	74	45
Freehub body	Speeds	8/9	-	7
	11T compatible	X	-	X
	Roller clutch	Roller Clutch	-	-
O.L.D. (mm)		135	133(6S)/135(7S)	134.7
Flange diameter (mm)		53.8	84	54
Flange distance (mm)		60	57.1	61.2
Dish (mm)		6.8	6.9(6S)/7.9(7S)	5.85
Axle (QR type)	QR Skewer Length	-	-	-
	Length (mm)	-	-	-
Axle (Nut Type)	Length (mm)	185 (M10)	180 (M10)	194/202
Seal	Hub	X	-	-
	Freewheel	X	-	-
Average weight				
Note			For 6 or 7-speed multifree wheel	

Front Hub

Standard

Series		DXR	DEORE XT	DEORE LX	DEORE	Non-Series	Non-Series
Model no.		HB-MX71	HB-T780	HB-T670	HB-T610	HB-M430	HB-RM70
Color	1	Series color	Black	Black	Black	Black	Black
	2	-	Silver	Silver	Silver	Silver	Silver
	3	-	-	-	-	-	-
Spoke holes	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
	Others	-	-	-	-	-	-
P.C.D. Left / Right (mm)		40	40	38	40/40	38	38
O.L.D. (mm)		100	100	100	100	100	100
Flange diameter (mm)		50.4	50.4	48.4	48.4	48.4	48.4
Flange distance (mm)		74	71.6	71.6	71.6	71.6	71.6
Offset (mm)		0	0	0	0	0	0
Fixing method		Nut	QR	QR	QR	QR	QR
QR	Length	129mm	-	-	-	-	-
		133mm	-	X	X	X	X
Axle (QR type)	Length (mm)	-	108	108	108	108	108
	Diameter (mm)	-	14	10	10	9	9
Axle (Thru type)	Length (mm)	-	-	-	-	-	-
	Diameter (mm)	-	-	-	-	-	-
Contact seal		X	X	X	X	X	X
Internal grease sleeve		X	X	X	-	-	-
Bearing	Stainless ball	X	-	-	-	-	-
Disc Mount	Center lock	-	-	-	-	-	-
	6-Bolt	-	-	-	-	-	-
Center lock mount cover option		-	-	-	-	-	-
Average weight* *w/o axle, QR nor locking		263g (w/ fixing bolt)	153g	161g	161g	-	-
Note		For BMX racing			-		

Front Hub

Standard

Series		Non-Series	
Model no.		HB-RM40	
Color	1	Black	
	2	Silver	
	3	-	
Spoke holes	24H	-	
	28H	-	
	32H	X	
	36H	X	
	Others	-	
P.C.D. Left / Right (mm)		38	
O.L.D. (mm)		100	
Flange diameter (mm)		46	
Flange distance (mm)		71.6	
Offset (mm)		0	
Fixing method		QR	
QR	Length	129mm	X
		133mm	X
Axle (QR type)	Length (mm)	108	
	Diameter (mm)	9	
Axle (Thru type)	Length (mm)	140	
	Diameter (mm)	9	
Contact seal		-	
Internal grease sleeve		-	
Bearing	Stainless ball	-	
Disc Mount	Center lock	-	
	6-Bolt	-	
Center lock mount cover option		-	
Average weight* *w/o axle, QR nor lockring		-	
Note			

Front Hub

Disc Brake

Series		XTR	DEORE XT	DEORE XT	SLX	DEORE LX	DEORE
Model no.		HB-M985	HB-M785	HB-M756	HB-M675	HB-T675	HB-M615
Color	1	Series color	Black	Black	Series color	Black	Black
	2	-	Silver	Silver	-	Silver	Silver
	3	-	-	-	-	-	-
Spoke Holes	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	-	X	X	X	X	X
	Others	-	-	-	-	-	-
P.C.D. Left / Right (mm)		44/40	44/41	61	44	44	44
O.L.D. (mm)		100	100	100	100	100	100
Flange diameter (mm)		52.8/ 50.4 (L/R)	52.8/51.4 (L/R)	70.6	52.8/51.4 (L/R)	52.8/51.4 (L/R)	52.8
Flange distance (mm)		60.6	60.6	59.4	60.2	60.2	60.2
Offset (mm)		5.4	6	5.5	5.3	5.3	5.3
Fixing method		QR	QR	QR	QR	QR	QR
QR	Length	129mm	-	-	-	-	-
		133mm	X	X	X	X	X
Axle (QR type)	Length (mm)	108	108	108	108	108	108
	Diameter (mm)	14	14	10	10	10	10
Axle (Thru type)	Length (mm)	-	-	-	-	-	-
	Diameter (mm)	-	-	-	-	-	-
Contact seal		X	X	X	X	X	X
Internal grease sleeve		X	X	-	-	-	-
Bearing	Stainless ball	X	-	-	-	-	-
Disc mount	Center lock	X	X	-	X	X	X
	6-Bolt	-	-	X	-	-	-
Center lock mount cover option		X	X	-	X	X	X
Average weight* *w/o axle, QR nor lockring		140g	166g	239g	189g	192g	185g
Note		*RH cone: Hybrid	-	-	-	-	-

Front Hub

Disc Brake

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.		HB-M629	HB-M529	HB-M525A	HB-M475	HB-M435	HB-RM66
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	Silver	Silver	Silver	-
	3	-	-	-	-	-	-
Spoke Holes	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	-	-	X	X	X	X
	Others	-	-	-	-	-	-
	P.C.D. Left / Right (mm)	44	61	61	61	44	44
O.L.D. (mm)		100	100	100	100	100	100
Flange diameter (mm)		52.8	70.6	70.6	70.6	52.8	52.8
Flange distance (mm)		60.2	59.2	59.4	59.4	60.2	60.2
Offset (mm)		5.3	5.7	5.5	5.5	5.6	5.5
Fixing method		QR	QR	QR	QR	QR	QR
QR	Length	129mm	-	-	-	-	-
		133mm	X	X	X	X	X
Axle (QR type)	Length (mm)	108	108	108	108	108	108
	Diameter (mm)	10	10	10	10	10	10
Axle (Thru type)	Length (mm)	-	-	-	-	-	-
	Diameter (mm)	-	-	-	-	-	-
Contact seal		X	X	X	X	X	X
Internal grease sleeve		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
Disc mount	Center lock	X	-	-	-	X	X
	6-Bolt	-	X	X	X	-	-
Center lock mount cover option		X	-	-	-	X	X
Average weight* *w/o axle, QR nor locking		-	-	-	-	-	-
Note		-	-	-	-	-	-

Series		Non-Series
Model no.		HB-RM35
Color	1	Black
	2	-
	3	-
Spoke Holes	24H	-
	28H	-
	32H	X
	36H	X
	Others	-
	P.C.D. Left / Right (mm)	44
O.L.D. (mm)		100
Flange diameter (mm)		52.8
Flange distance (mm)		60.2
Offset (mm)		5.5
Fixing method		QR
QR	Length	129mm
		133mm
Axle (QR type)	Length (mm)	108
	Diameter (mm)	10
Axle (Thru type)	Length (mm)	-
	Diameter (mm)	-
Contact seal		-
Internal grease sleeve		-
Bearing	Stainless ball	-
Disc mount	Center lock	X
	6-Bolt	-
Center lock mount cover option		X
Average weight* *w/o axle, QR nor locking		-
Note		-

Front Hub

Disc Brake (Thru Axle)

Series		XTR	SAINT	DEORE XT	SLX	DEORE	ZEE
Model no.		HB-M988	HB-M820	HB-M788	HB-M678	HB-M618	HB-M640
Color	1	Series color	Series color	Black	Series color	Black	Series color
	2	-	-	Silver	-	-	-
	3	-	-	-	-	-	-
Spoke Holes	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	-	X	-	-	-	X
	Others	-	-	-	-	-	-
	P.C.D. Left / Right (mm)	44	52	44	47	44	52
O.L.D. (mm)		100	110	100	100	100	110
Flange diameter (mm)		52.8	59.6	52.8	52.8	52.8	59.6
Flange distance (mm)		60.2	61.6	60.2	59.8	60.2	61.6
Offset (mm)		5.4	5.6	5.4	5.3	5.3	5.6
Fixing method		15mm E-Thru	20mm Thru	15mm E-Thru	15mm E-Thru	15mm E-thru	20mm Thru
QR	Length	129mm	-	-	-	-	-
		133mm	-	-	-	-	-
Axle (QR type)	Length (mm)	-	-	-	-	-	-
	Diameter (mm)	-	-	-	-	-	-
Axle (Thru type)	Length (mm)	100	110	100	100	100	110
	Diameter (mm)	15	20	15	15	15	20
Contact seal		X	X	X	X	X	X
Internal grease sleeve		X	X	X	X	X	X
Bearing	Stainless ball	X	X	-	-	-	-
Disc mount	Center lock	X	X	X	X	X	X
	6-Bolt	-	-	-	-	-	-
Center lock mount cover option		-	-	-	-	-	-
Average weight* *w/o axle, QR nor locking		136g	216g	170g	190g	190g	228g
Note		Axle is supplied with front fork	Axle is supplied with front fork	Axle is supplied with front fork	Axle is supplied with front fork	Axle is supplied with front fork	Axle is supplied with front fork

Series		Non-Series
Model no.		HB-T708
Color	1	Silver
	2	-
	3	-
Spoke Holes	24H	-
	28H	-
	32H	X
	36H	X
	Others	-
	P.C.D. Left / Right (mm)	45
O.L.D. (mm)		100
Flange diameter (mm)		52.8
Flange distance (mm)		60.05
Offset (mm)		5.4
Fixing method		8mm E-Thru
QR	Length	129mm
		133mm
Axle (QR type)	Length (mm)	-
	Diameter (mm)	-
Axle (Thru type)	Length (mm)	100
	Diameter (mm)	8 (SM-AX60)
Contact seal		X
Internal grease sleeve		X
Bearing	Stainless ball	-
Disc mount	Center lock	X
	6-Bolt	-
Center lock mount cover option		X
Average weight* *w/o axle, QR nor locking		168g
Note		-

Front Hub Roller Brake

Series		NEXAVE	Nexus
Model no.		HB-IM70	HB-IM40
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)		100/105	100
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	-	-
	20-24inch	X	-
	24-28inch	-	-
	16-20inch	-	-
Roller brake modulator grade	More than 26inch High	-	-
	More than 26inch Standard	X	X
	20-24inch	X	-
Axle (QR type)	QR skewer length (mm)	129/133	-
	Axle length (mm)	108 (M10)	-
Axle (Nut type)	Axle length (mm)	140/145 (M9)	140 (M9)
Seal		X	X
Structure (Braking power)		Hyper	Normal
Average weight			
Note			

Wheel

Series		XTR	XTR	XTR	XTR	XTR	XTR	
Model no.		WH-M980-F15-29	WH-M980-R12-29	WH-M980-R-29	WH-M985-F15	WH-M985-F	WH-M985-R	
Front / Rear		Front	Rear	Rear	Front	Front	Rear	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
	Graphic color option	-	-	-	-	-	-	
O.L.D. (mm)		100	142	135	100	100	135	
Freehub Body	Rear speeds	-	9/10	9/10	-	-	9/10	
	Cassette type	-	MTB	MTB	-	-	MTB	
	11T compatible	-	X	X	-	-	X	
	Assumed minimum front chainwheel teeth	-	22T	22T	-	-	22T	
	Assumed rear sprocket teeth (CP)	-	11-32/11-34/11-36T	11-32/11-34/11-36T	-	-	11-32/11-34/11-36T	
	Quick engagement	-	X (36points/360°)	X (36points/360°)	-	-	X (36points/360°)	
Axle	QR	-	-	X	-	X	X	
	Thru	15E	12E	-	15E	-	-	
	Length (mm)	100	142	146	100	108	146	
	Diameter (mm)	17.5	15	14	17.5	14	14	
Hub shell	Flange type	pulstar	pulstar	pulstar	pulstar	pulstar	pulstar	
	Contact seal	X	X	X	X	X	X	
	Rotor mount	Center lock	X	X	X	X	X	X
		6-bolt	-	-	-	-	-	-
		Outer serration lock ring	X (Aluminum)	-	-	X (Aluminum)	-	-
QR lever	Length (mm)	133	-	-	-	X	-	
		166	-	-	-	-	-	
		168	-	-	X	-	-	X
		170	-	-	-	-	-	-
		173	-	-	X	-	-	X
Rim	Size	29inch	29inch	29inch	559x19C (26")	559x19C (26")	559x19C (26")	
	Type	Tubular	Tubular	Tubular	UST/clincher	UST/clincher	UST/clincher	
	Offset rim	X	X	X	-	-	-	
	Welded joint	Carbon monocoque	Carbon monocoque	Carbon monocoque	X	X	X	
	Height (mm)	23	23	23	21	21	21	
	Width (mm)	26	26	26	23.3	23.3	23.3	
	Brazed reinforcement	-	-	-	X	X	X	
	Requires rim tape	-	-	-	-	-	-	
	Brake type	Disc brake	X	X	X	X	X	X
Rim brake		-	-	-	-	-	-	
Spokes	No. of spokes	28H	28H	28H	24H	24H	24H	
	Gauge	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	
	Shape	Butted/Round	Butted/Round	Butted/Round	Butted/Round	Butted/Round	Butted/Round	
	Color	Black	Black	Black	Black	Black	Black	
	Nipple	Color	Gray	Gray	Gray	Silver	Silver	Silver
Tire	Type	Tubular	Tubular	Tubular	UST/clincher	UST/clincher	UST/clincher	
	Recommended size	To take 29x1.90-2.10	To take 29x1.90-2.10	To take 29x1.90-2.10	To take 26x1.50-2.25	To take 26x1.50-2.25	To take 26x1.50-2.25	
Option	Rotor mount adapter	SM-RTAD10	SM-RTAD10	SM-RTAD10	SM-RTAD10	SM-RTAD10	SM-RTAD10	
	Spoke protector	-	CP-WH16	CP-WH16	-	-	CP-WH14-B	
	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		596g	766g	725g	679g	679g	807g	
Note								

Wheel

Series		XTR	XTR	XTR	DEORE XT	DEORE XT	DEORE XT	
Model no.		WH-M988-F15	WH-M988-R12	WH-M988-R	WH-M785-F15	WH-M785-F	WH-MT785-R	
Front / Rear		Front	Rear	Rear	Front	Front	Rear	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
	Graphic color option	-	-	-	-	-	-	
O.L.D. (mm)		100	142	135	100	100	135	
Freehub Body	Rear speeds	-	9/10	9/10	-	-	9/10	
	Cassette type	-	MTB	MTB	-	-	MTB	
	11T compatible	-	X	X	-	-	X	
	Assumed minimum front chainwheel teeth	-	22T	22T	-	-	22T	
	Assumed rear sprocket teeth (CP)	-	11-32/11-34/11-36T	11-32/11-34/11-36T	-	-	11-32/11-34/11-36T	
	Quick engagement	-	X (36points/360°)	X (36points/360°)	-	-	X (36points/360°)	
Axle	QR	-	-	X	-	X	X	
	Thru	15E	12E	-	15E	-	-	
	Length (mm)	100	142	146	100	108	146	
	Diameter (mm)	17.5	15	14	-	14	14	
Hub shell	Flange type	pulstar	pulstar	pulstar	pulstar	pulstar	pulstar	
	Contact seal	X	X	X	X	X	X	
	Rotor mount	Center lock	X	X	X	X	X	X
		6-bolt	-	-	-	-	-	-
Outer serration lock ring		X (Aluminum)	-	-	X (Aluminum)	-	-	
QR lever	Length (mm)	133	-	-	-	X	-	
		166	-	-	-	-	-	
		168	-	-	X	-	X	
		170	-	-	-	-	-	
		173	-	-	X	-	X	
Rim	Size	559x21C (26")	559x21C (26")	559x21C (26")	559x19C (26")	559x19C (26")	559x19C (26")	
	Type	UST/clincher	UST/clincher	UST/clincher	UST/clincher	UST/clincher	UST/clincher	
	Offset rim	-	-	-	-	-	-	
	Welded joint	X	X	X	X	X	X	
	Height (mm)	22	22	22	21	21	21	
	Width (mm)	26.4	26.4	26.4	23.3	23.3	23.3	
	Brazed reinforcement	X	X	X	X	X	X	
	Requires rim tape	-	-	-	-	-	-	
	Brake type	Disc brake	X	X	X	X	X	X
Rim brake		-	-	-	-	-	-	
Spokes	No. of spokes	24H	24H	24H	24H	24H	24H	
	Gauge	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	
	Shape	Butted/Round	Butted/Round	Butted/Round	Butted/Round	Butted/Round	Butted/Round	
	Color	Black	Black	Black	Black	Black	Black	
	Nipple	Color	Orange	Orange	Orange	Black	Black	Black
Tire	Type	UST/clincher	UST/clincher	UST/clincher	UST/clincher	UST/clincher	UST/clincher	
	Recommended size	To take 26x1.95-2.50	To take 26x1.95-2.50	To take 26x1.95-2.50	To take 26x1.50-2.25	To take 26x1.50-2.25	To take 26x1.50-2.25	
Option	Rotor mount adapter	SM-RTAD10	SM-RTAD10	SM-RTAD10	SM-RTAD10	SM-RTAD10	SM-RTAD10	
	Spoke protector	-	CP-WH14-B	CP-WH14-B	-	-	CP-WH14-B	
	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		759g	937g	889g	752g	710g	915g	
Note								

Wheel

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		WH-M785-F-275	WH-M785-F15-275	WH-M785-R-275	WH-M785-R12-275	WH-M785-F15-29	WH-M785-F-29	
Front / Rear		Front	Front	Rear	Rear	Front	Front	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
	Graphic color option	-	-	-	-	-	-	
O.L.D. (mm)		100	100	135	142	100	100	
Freehub Body	Rear speeds	-	-	9/10	9/10	-	-	
	Cassette type	-	-	MTB	MTB	-	-	
	11T compatible	-	-	X	X	-	-	
	Assumed minimum front chainwheel teeth	-	-	22T	22T	-	-	
	Assumed rear sprocket teeth (CP)	-	-	11-32T/11-34T/11-36T	11-32T/11-34T/11-36T	-	-	
	Quick engagement	-	-	X (36points/360°)	X (36points/360°)	-	-	
Axle	QR	X	-	X	-	-	X	
	Thru	-	15E	-	12E	15E	-	
	Length (mm)	108	100	146	142	100	108	
	Diameter (mm)	10	-	10	N/A (SM-AX75)	-	14	
Hub shell	Flange type	pulstar	pulstar	pulstar	pulstar	pulstar	pulstar	
	Contact seal	X	X	X	X	X	X	
	Rotor mount	Center lock	X	X	X	X	X	X
		6-bolt	-	-	-	-	-	-
Outer serration lock ring		-	X (Aluminum)	-	-	X (Aluminum)	-	
QR lever	Length (mm)	133	X	-	-	-	X	
		166	-	-	-	-	-	
		168	-	-	X	-	-	
		170	-	-	-	-	-	
		173	-	-	X	-	-	
Rim	Size	584X19C (650B=27.5")	584X19C (650B=27.5")	584X19C (650B=27.5")	584X19C (650B=27.5")	622x19C (29")	622x19C (29")	
	Type	UST/clincher	UST/clincher	UST/clincher	UST/clincher	UST/clincher	UST/clincher	
	Offset rim	-	-	-	-	-	-	
	Welded joint	X	X	X	X	X	X	
	Height (mm)	19	19	19	19	21	21	
	Width (mm)	24.6	24.6	24.6	24.6	23.3	23.3	
	Brazed reinforcement	X	X	X	X	X	X	
	Requires rim tape	-	-	-	-	-	-	
	Brake type	Disc brake	X	X	X	X	X	X
Rim brake		-	-	-	-	-	-	
Spokes	No. of spokes	24H	24H	24H	24H	24H	24H	
	Gauge	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	
	Shape	Double butted	Double butted	Double butted	Double butted	Butted/Round	Butted/Round	
	Color	Black	Black	Black	Black	Black	Black	
	Nipple	Color	Black	Black	Black	Black	Black	
Tire	Type	Clincher	Clincher	Clincher	Clincher	UST/clincher	UST/clincher	
	Recommended size	To take 27.5X1.50-2.25	To take 27.5X1.50-2.25	To take 27.5X1.50-2.25	To take 27.5X1.50-2.25	To take 29x1.50-2.25	To take 29x1.50-2.25	
Option	Rotor mount adapter	SM-RTAD10	SM-RTAD10	SM-RTAD10	SM-RTAD10	SM-RTAD10	SM-RTAD10	
	Spoke protector	-	-	CP-WH14-B	CP-WH14-B	-	-	
	Reflector	JIS/CPSC	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
		AS	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
		DIN	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight		803g	806g	968g	999g	840g	840g	
Note								

Wheel

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	Non-Series
Model no.		WH-M785-R-29	WH-M785-R12-29	WH-M788-F15	WH-M788-R12	WH-M788-R	WH-MT68-F15
Front / Rear		Rear	Rear	Front	Rear	Rear	Front
Color	1	Series color	Series color	Series color	Series color	Series color	Black
	2	-	-	-	-	-	White
	3	-	-	-	-	-	-
	Graphic color option	-	-	-	-	-	Mono Tone Optional
O.L.D. (mm)		135	142	100	142	135	100
Freehub Body	Rear speeds	9/10	9/10	-	9/10	9/10	-
	Cassette type	MTB	MTB	-	MTB	MTB	-
	11T compatible	X	X	-	X	X	-
	Assumed minimum front chainwheel teeth	22T	22T	-	22T	22T	-
	Assumed rear sprocket teeth (CP)	11-32/11-34/11-36T	11-32T/11-34T/11-36T	-	11-32/11-34/11-36T	11-32/11-34/11-36T	-
	Quick engagement	X (36points/360°)	X (36points/360°)	-	X (36points/360°)	X (36points/360°)	-
Axle	QR	X	-	-	-	X	-
	Thru	-	12E	15E	12E	-	15E
	Length (mm)	146	142	100	142	146	100
	Diameter (mm)	14	N/A (SM-AX75)	-	N/A (SM-AX75)	14	-
Hub shell	Flange type		pulstar	pulstar	pulstar	pulstar	pulstar
	Contact seal		X	X	X	X	X
	Rotor mount	Center lock	X	X	X	X	X
		6-bolt	-	-	-	-	-
		Outer serration lock ring	-	-	X (Aluminum)	-	-
QR lever	Length (mm)	133	-	-	-	-	-
		166	-	-	-	-	-
		168	X	-	-	-	X
		170	-	-	-	-	-
		173	X	-	-	-	X
Rim	Size		622x19C (29")	622x19C (29")	559x21C (26")	559x21C (26")	559x21C (26")
	Type		UST/clincher	UST/clincher	UST/clincher	UST/clincher	UST/clincher
	Offset rim		-	-	-	-	-
	Welded joint		X	X	X	X	X
	Height (mm)		21	21	22	22	22
	Width (mm)		23.3	23.3	26.4	26.4	26.4
	Brazed reinforcement		X	X	X	X	X
	Requires rim tape		-	-	-	-	-
	Brake type	Disc brake	X	X	X	X	X
Rim brake		-	-	-	-	-	
Spokes	No. of spokes		24H	24H	24H	24H	24H
	Gauge		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
	Shape		Butted/Round	Butted/Round	Butted/Round	Butted/Round	Butted/Round
	Color		Black	Black	Black	Black	Black
	Nipple	Color	Black	Black	Black	Black	Black
Tire	Type		UST/clincher	UST/clincher	UST/clincher	UST/clincher	UST/clincher
	Recommended size		To take 29x1.50-2.25	To take 29x1.50-2.25	To take 26x1.95-2.50	To take 26x1.95-2.50	To take 26x1.95-2.50
Option	Rotor mount adapter		SM-RTAD10	SM-RTAD10	SM-RTAD10	SM-RTAD10	SM-RTAD05
	Spoke protector		CP-WH14-B	CP-WH14-B	-	CP-WH14-B	CP-WH14-B
	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		990g	1047g	775g	1020g	980g	
Note							

SL

BL

ST

RD

FD

BR

RT

RTAD

SMBH

FC

BB

CS

MF

CN

FH

HB

WH

PD

CI-DECK

Wheel

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.		WH-MT68-R12	WH-MT68-R	WH-MT66-F15	WH-MT66-F	WH-MT66-R	WH-MT66-F15-29
Front / Rear		Rear	Rear	Front	Front	Rear	Front
Color	1	Black	Black	Black	Black	Black	Black
	2	White	White	White	White	White	White
	3	-	-	-	-	-	-
	Graphic color option	Mono Tone Optional	Mono Tone Optional	Mono Tone Optional	Mono Tone Optional	Mono Tone Optional	Mono Tone Optional
O.L.D. (mm)		142	135	100	100	135	100
Freehub Body	Rear speeds	9/10	9/10	-	-	9/10	-
	Cassette type	MTB	MTB	-	-	MTB	-
	11T compatible	X	X	-	-	X	-
	Assumed minimum front chainwheel teeth	22T	22T	-	-	22T	-
	Assumed rear sprocket teeth (CP)	11-32/11-34/11-36T	11-32/11-34/11-36T	-	-	11-32/11-34/11-36T	-
	Quick engagement	X (32points/360°)	X (32points/360°)	-	-	X (32points/360°)	-
Axle	QR	-	X	-	X	X	-
	Thru	12E	-	15E	-	-	15E
	Length (mm)	142	146	100	108	146	100
	Diameter (mm)	N/A (SM-AX65)	14	-	14	14	-
Hub shell	Flange type		pulstar	pulstar	pulstar	pulstar	pulstar
	Contact seal		X	X	X	X	X
	Rotor mount	Center lock	X	X	X	X	X
		6-bolt	-	-	-	-	-
		Outer serration lock ring	-	-	X (Aluminum)	-	-
QR lever	Length (mm)	133	-	-	X	-	-
		166	-	-	-	-	-
		168	-	X	-	-	X
		170	-	-	-	-	-
		173	-	X	-	-	X
Rim	Size		559x21C (26")	559x21C (26")	559x19C (26")	559x19C (26")	622x19C (29")
	Type		UST/clincher	UST/clincher	UST/clincher	UST/clincher	UST/clincher
	Offset rim		-	-	-	-	-
	Welded joint		X	X	X	X	X
	Height (mm)		20.5	20.5	19	19	19
	Width (mm)		25.8	25.8	24.6	24.6	24.6
	Brazed reinforcement		-	-	-	-	-
	Requires rim tape		-	-	-	-	-
	Brake type	Disc brake	X	X	X	X	X
Rim brake		-	-	-	-	-	
Spokes	No. of spokes		24H	24H	24H	24H	24H
	Gauge		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
	Shape		Butted/Round	Butted/Round	Butted/Round	Butted/Round	Butted/Round
	Color		Black	Black	Black	Black	Black
	Nipple	Color	Black	Black	Black	Black	Black
Tire	Type		UST/clincher	UST/clincher	UST/clincher	UST/clincher	UST/clincher
	Recommended size		To take 26x1.95-2.50	To take 26x1.95-2.50	To take 26x1.50-2.25	To take 26x1.50-2.25	To take 29x1.50-2.25
Option	Rotor mount adapter		SM-RTAD05	SM-RTAD05	SM-RTAD05	SM-RTAD05	SM-RTAD05
	Spoke protector		CP-WH14A/15	CP-WH14A/15	-	-	CP-WH14A/15
	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		1090g	1050g	840g	840g	985g	945g
Note							

Wheel

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	
Model no.		WH-MT66-F-29	WH-MT66-R12-29	WH-MT66-R-29	WH-MT55-F15	WH-MT55-F	WH-MT55-R	
Front / Rear		Front	Rear	Rear	Front	Front	Rear	
Color	1	Black	Black	Black	Black	Black	Black	
	2	White	White	White	White	White	White	
	3	-	-	-	-	-	-	
	Graphic color option	Mono Tone Optional	Mono Tone Optional	Mono Tone Optional	X	X	X	
O.L.D. (mm)		100	135	135	100	100	135	
Freehub Body	Rear speeds	-	9/10	9/10	-	-	9/10	
	Cassette type	-	MTB	MTB	-	-	MTB	
	11T compatible	-	X	X	-	-	X	
	Assumed minimum front chainwheel teeth	-	22T	22T	-	-	22T	
	Assumed rear sprocket teeth (CP)	-	11-32/11-34/11-36T	11-32/11-34/11-36T	-	-	11-32/11-34/11-36T	
	Quick engagement	-	X (32points/360°)	X (32points/360°)	-	-	-	
Axle	QR	X	-	X	-	X	X	
	Thru	-	12E	-	15E	-	-	
	Length (mm)	108	142	146	100	108	146	
	Diameter (mm)	14	N/A (SM-AX65)	14	-	9	10	
Hub shell	Flange type		pulstar	pulstar	pulstar	pulstar	pulstar	
	Contact seal		X	X	X	X	X	
	Rotor mount	Center lock	X	X	X	X	X	X
		6-bolt	-	-	-	-	-	-
		Outer serration lock ring	-	-	-	X (Aluminum)	-	-
QR lever	Length (mm)	133	X	-	-	X	-	
		166	-	-	-	-	-	
		168	-	-	X	-	X	
		170	-	-	-	-	-	
		173	-	-	X	-	X	
Rim	Size		622x19C (29")	622x19C (29")	622x19C (29")	559x19C (26")	559x19C (26")	559x19C (26")
	Type		UST/clincher	UST/clincher	UST/clincher	Clincher	Clincher	Clincher
	Offset rim		-	-	-	-	-	-
	Welded joint		X	X	X	X	X	X
	Height (mm)		19	19	19	19	19	19
	Width (mm)		24.6	24.6	24.6	24.6	24.6	24.6
	Brazed reinforcement		-	-	-	-	-	-
	Requires rim tape		-	-	-	-	-	-
	Brake type	Disc brake	X	X	X	X	X	X
Rim brake		-	-	-	-	-	-	
Spokes	No. of spokes		24H	28H	28H	24H	24H	24H
	Gauge		2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0	2.0	2.0
	Shape		Butted/Round	Butted/Round	Butted/Round	Plane/Round	Plane/Round	Plane/Round
	Color		Black	Black	Black	Black	Black	Black
	Nipple	Color	Black	Black	Black	Black	Black	Black
Tire	Type		UST/clincher	UST/clincher	UST/clincher	Clincher	Clincher	Clincher
	Recommended size		To take 29x1.50-2.25	To take 29x1.50-2.25	To take 29x1.50-2.25	To take 26x1.50-2.25	To take 26x1.50-2.25	To take 26x1.50-2.25
Option	Rotor mount adapter		SM-RTAD05	SM-RTAD05	SM-RTAD05	SM-RTAD05	SM-RTAD05	SM-RTAD05
	Spoke protector		-	CP-WH16	CP-WH16	-	-	CP-WH14A/15
	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		945g	1120g	1080g	850g	853g	1030g	
Note								

SL

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RTAD

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WH

PD

CI-DECK

Wheel

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	
Model no.		WH-MT55-F15-29	WH-MT55-F-29	WH-MT55-R-29	WH-MT35-F	WH-MT35-F15	WH-MT35-R	
Front / Rear		Front	Front	Rear	Front	Front	Rear	
Color	1	Black	Black	Black	Black	Black	Black	
	2	White	White	White	White	White	White	
	3	-	-	-	-	-	-	
	Graphic color option	X	X	X	Mono tone/ Red/Blue/Orange/Hi tech Gray	Mono tone/ Red/Blue/Orange/Hi tech Gray	Mono tone/ Red/Blue/Orange/Hi tech Gray	
O.L.D. (mm)		100	100	135	100	100	135	
Freehub Body	Rear speeds	-	-	9/10	-	-	9/10	
	Cassette type	-	-	MTB	-	-	MTB	
	11T compatible	-	-	X	-	-	X	
	Assumed minimum front chainwheel teeth	-	-	22T	-	-	22T	
	Assumed rear sprocket teeth (CP)	-	-	11-32/11-34/11-36T	-	-	11-32T/11-34T/11-36T	
	Quick engagement	-	-	-	-	-	-	
Axle	QR	-	X	X	X	-	X	
	Thru	15E	-	-	-	15E	-	
	Length (mm)	100	108	146	108	100	146	
	Diameter (mm)	-	9	10	10	-	10	
Hub shell	Flange type	pulstar	pulstar	pulstar	round	round	round	
	Contact seal	X	X	X	X	X	X	
	Rotor mount	Center lock	X	X	X	X	X	X
		6-bolt	-	-	-	-	-	-
Outer serration lock ring		X (Aluminum)	-	-	-	X (Steel)	-	
QR lever	Length (mm)	133	-	X	-	X	-	
		166	-	-	-	-	-	
		168	-	-	X	-	-	X
		170	-	-	-	-	-	-
		173	-	-	X	-	-	X
Rim	Size	622x19C (29")	622x19C (29")	622x19C (29")	559x19C (26")	559x19C (26")	559x19C (26")	
	Type	Clincher	Clincher	Clincher	clincher	clincher	clincher	
	Offset rim	-	-	-	-	-	-	
	Welded joint	X	X	X	X	X	X	
	Height (mm)	19	19	19	19	19	19	
	Width (mm)	24.6	24.6	24.6	24.6	24.6	24.6	
	Brazed reinforcement	-	-	-	-	-	-	
	Requires rim tape	-	-	-	X (20-559)	X (20-559)	X (20-559)	
	Brake type	Disc brake	X	X	X	X	X	X
		Rim brake	-	-	-	-	-	-
Spokes	No. of spokes	24H	24H	24H	24H	24H	28H	
	Gauge	2.0	2.0	2.0	-	-	-	
	Shape	Plane/Round	Plane/Round	Plane/Round	J-bent(2.0)/ Bladed	J-bent(2.0)/ Bladed	J-bent(2.0)/ Bladed	
	Color	Black	Black	Black	Black	Black	Black	
	Nipple	Color	Black	Black	Black	Black	Black	
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher	
	Recommended size	To take 29x1.50-2.25	To take 29x1.50-2.25	To take 29x1.50-2.25	To take 26X1.50-2.25	To take 26X1.50-2.25	To take 26X1.50-2.25	
Option	Rotor mount adapter	SM-RTAD05	SM-RTAD05	SM-RTAD05	SM-RTAD05	SM-RTAD05	SM-RTAD05	
	Spoke protector	-	-	CP-WH14A/15	-	-	CP-WH12/13	
	Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW	RR-550-WUW SW
		AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW	RR-550-WUA SW
DIN		CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	RR317-WUA SW	RR317-WUA SW	RR317-WUA SW	
Average weight		919g	933g	1106g	839g	817g	1076g	
Note								

Wheel

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	
Model no.		WH-MT35-F-275	WH-MT35-F15-275	WH-MT35-R-275	WH-MT35-F-29	WH-MT35-F15-29	WH-MT35-R-29	
Front / Rear		Front	Front	Rear	Front	Front	Rear	
Color	1	Black rim	Black rim	Black rim	Black	Black	Black	
	2	White rim	White rim	White rim	White	White	White	
	3	-	-	-	-	-	-	
	Graphic color option	Mono tone/ Red/Blue/Orange/Hi tech Gray	Mono tone/ Red/Blue/Orange/Hi tech Gray	Mono tone/ Red/Blue/Orange/Hi tech Gray	Mono tone/ Red/Blue/Orange/Hi tech Gray	Mono tone/ Red/Blue/Orange/Hi tech Gray	Mono tone/ Red/Blue/Orange/Hi tech Gray	
O.L.D. (mm)		100	100	135	100	100	135	
Freehub Body	Rear speeds	-	-	9/10	-	-	9/10	
	Cassette type	-	-	MTB	-	-	MTB	
	11T compatible	-	-	X	-	-	X	
	Assumed minimum front chainwheel teeth	-	-	22T	-	-	22T	
	Assumed rear sprocket teeth (CP)	-	-	11-32T/11-34T/11-36T	-	-	11-32T/11-34T/11-36T	
	Quick engagement	-	-	-	-	-	-	
Axle	QR	X	-	X	X	-	X	
	Thru	-	15E	-	-	15E	-	
	Length (mm)	108	100	146	108	100	146	
	Diameter (mm)	10	-	10	10	-	10	
Hub shell	Flange type		round	round	round	round	round	
	Contact seal		X	X	X	X	X	
	Rotor mount	Center lock	X	X	X	X	X	
		6-bolt	-	-	-	-	-	
		Outer serration lock ring	-	X (Steel)	-	-	X (Steel)	
QR lever	Length (mm)	133	X	-	-	X	-	
		166	-	-	-	-	-	
		168	-	-	X	-	-	X
		170	-	-	-	-	-	-
		173	-	-	X	-	-	X
Rim	Size		584X19C (650B=27.5")	584X19C (650B=27.5")	584X19C (650B=27.5")	622x19C (29")	-	622x19C (29")
	Type		Clincher	Clincher	Clincher	Clincher	-	Clincher
	Offset rim		-	-	-	-	-	-
	Welded joint		X	X	X	X	X	X
	Height (mm)		19	19	19	19	19	19
	Width (mm)		24.6	24.6	24.6	24.6	24.6	24.6
	Brazed reinforcement		-	-	-	-	-	-
	Requires rim tape		X (20-584)	X (20-584)	X (20-584)	X (20-622)	X (20-622)	X (20-622)
	Brake type	Disc brake	X	X	X	X	X	X
Rim brake		-	-	-	-	-	-	
Spokes	No. of spokes		24H	24H	28H	24H	24H	28H
	Gauge		-	-	-	-	-	-
	Shape		J-bent(2.0)/ Bladed	J-bent(2.0)/ Bladed	J-bent(2.0)/ Bladed	J-bent(2.0)/ Bladed	J-bent(2.0)/ Bladed	J-bent(2.0)/ Bladed
	Color		Black	Black	Black	Black	Black	Black
	Nipple	Color	Black	Black	Black	Black	Black	Black
Tire	Type		Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size		To take 27.5X1.50- 2.25	To take 27.5X1.50- 2.25	To take 27.5X1.50- 2.25	To take 29X1.50-2.25	To take 29X1.50-2.25	To take 29X1.50-2.25
Option	Rotor mount adapter		SM-RTAD05	SM-RTAD05	SM-RTAD05	SM-RTAD05	SM-RTAD05	SM-RTAD05
	Spoke protector		-	-	CP-WH12/13	-	-	CP-WH12/13
	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		874g	889g	1091g	908g	886g	1148g	
Note								

SL

BL

ST

RD

FD

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RTAD

SMBH

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WH

PD

CI-DECK

Wheel

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	
Model no.		WH-MT15-A-F	WH-MT15-A-F15	WH-MT15-A-R	WH-MT15-A-F-29	WH-MT15-A-F15-29	WH-MT15-A-R-29	
Front / Rear		Front	Front	Rear	Front	Front	Rear	
Color	1	Black rim	Black rim	Black rim	Black rim	Black rim	Black rim	
	2	White rim	White rim	White rim	White rim	White rim	White rim	
	3	-	-	-	-	-	-	
	Graphic color option	Mono tone/ Red/Blue/Orange/Hi tech Gray	Mono tone/ Red/Blue/Orange/Hi tech Gray	Mono tone/ Red/Blue/Orange/Hi tech Gray	Mono tone/ Red/Blue/Orange/Hi tech Gray	Mono tone/ Red/Blue/Orange/Hi tech Gray	Mono tone/ Red/Blue/Orange/Hi tech Gray	
O.L.D. (mm)		100	100	135	100	100	135	
Freehub Body	Rear speeds	-	-	9/10	-	-	9/10	
	Cassette type	-	-	MTB	-	-	MTB	
	11T compatible	-	-	X	-	-	X	
	Assumed minimum front chainwheel teeth	-	-	22T	-	-	22T	
	Assumed rear sprocket teeth (CP)	-	-	11-32T/11-34T/11-36T	-	-	11-32T/11-34T/11-36T	
	Quick engagement	-	-	-	-	-	-	
Axle	QR	X	-	X	X	-	X	
	Thru	-	15E	-	-	15E	-	
	Length (mm)	108	100	146	108	100	146	
	Diameter (mm)	10	-	10	10	-	10	
Hub shell	Flange type	round	round	round	round	round	round	
	Contact seal	X	X	X	X	X	X	
	Rotor mount	Center lock	X	X	X	X	X	X
		6-bolt	-	-	-	-	-	-
		Outer serration lock ring	-	X (Steel)	-	-	X (Steel)	-
QR lever	Length (mm)	133	X	-	-	X	-	
		166	-	-	-	-	-	
		168	-	-	X	-	-	X
		170	-	-	-	-	-	-
		173	-	-	X	-	-	X
Rim	Size	559x19C (26")	559x19C (26")	559x19C (26")	622x19C (29")	622x19C (29")	622x19C (29")	
	Type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher	
	Offset rim	-	-	-	-	-	-	
	Welded joint	-	-	-	-	-	-	
	Height (mm)	19	19	19	19	19	19	
	Width (mm)	24.6	24.6	24.6	24.6	24.6	24.6	
	Brazed reinforcement	-	-	-	-	-	-	
	Requires rim tape	X (20-559)	X (20-559)	X (20-559)	X (20-622)	X (20-622)	X (20-622)	
	Brake type	Disc brake	X	X	X	X	X	X
		Rim brake	-	-	-	-	-	-
Spokes	No. of spokes	28H	28H	28H	28H	28H	28H	
	Gauge	2.0	2.0	2.0	2.0	2.0	2.0	
	Shape	J-bent(2.0)/ Bladed	J-bent(2.0)/ Bladed	J-bent(2.0)/ Bladed	J-bent(2.0)/ Bladed	J-bent(2.0)/ Bladed	J-bent(2.0)/ Bladed	
	Color	Black	Black	Black	Black	Black	Black	
	Nipple	Color	Silver	Silver	Silver	Silver	Silver	Silver
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher	
	Recommended size	To take 26X1.50-2.25	To take 26X1.50-2.25	To take 26X1.50-2.25	To take 29X1.50-2.25	To take 29X1.50-2.25	To take 29X1.50-2.25	
Option	Rotor mount adapter	SM-RTAD05	SM-RTAD05	SM-RTAD05	SM-RTAD05	SM-RTAD05	SM-RTAD05	
	Spoke protector	-	-	CP-WH12/13	-	-	CP-WH12/13	
	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		933g	941g	1143g	1036g	1044g	1246g	
Note								

Pedal

SPD

Series	XTR	XTR	DEORE XT	DEORE XT	Non-Series	Non-Series
Model no.	PD-M985	PD-M980	PD-M785	PD-M780	PD-M540	PD-M530
Color 1	Black	Black	Black	Black	Silver	Black
Color 2	-	-	-	-	Bronze	White
Color 3	-	-	-	-	-	-
Type	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)
SPD	Dual Sided	Dual Sided	Dual Sided	Dual Sided	Dual Sided	Dual Sided
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	-	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
Average weight (pair)	379g	310g	408g	343g	352g	455g
Note						

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	DEORE XT
Model no.	PD-M520	PD-M505	PD-M647	PD-M545	PD-M424	PD-T780
Color 1	Silver	Silver	Black	Silver	Black	Black
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)	Trekking (SPD/Flat)
SPD	Dual Sided	Dual Sided	Dual Sided	Dual Sided	Dual Sided	Single Sided
Cartridge axle	X	-	X	X	X	X
Sealed mechanism	X	X	X	X	X	X
Cleat retention adjuster	X	X	X	X	X	X
Pop-up cage	-	-	X	X	X	-
Integrated cage	-	-	-	-	-	-
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	Integrated
Average weight (pair)	380g	443g	568g	567g	472g	392g
Note		For OEM spec.				

Pedal

SPD

Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.	PD-M324	PD-A600	PD-A530	PD-A520
Color 1	Silver	Grey	Silver	Silver
Color 2	-	-	Black	-
Color 3	-	-	-	-
Type	Multi-purpose (SPD/Flat)	Road (SPD)	Multi-purpose (SPD/Flat)	Road (SPD)
SPD	Single Sided	Single Sided	Single Sided	Single Sided
Cartridge axle	-	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	Y41B98010	SM-PD62	SM-PD61	SM-PD59
Average weight (pair)	533g	286g	383g	315g
Note				

Pedal

Click'R

Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.	PD-T700	PD-T400	PD-T420	PD-MT50
Color 1	Black	Black	Black	Black
Color 2	-	White	-	-
Color 3	-	-	-	-
Type	Trekking (Click'R)	Trekking (Click'R)	Trekking (Click'R)	Recreational use (Click'R)
SPD	Dual Sided	Dual Sided	Single Sided	Dual Sided
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	Integrated	Integrated	Integrated	SM-PD60
Average weight (pair)	457g	507g	418g	498g
Note				

Pedal

Flat

Series	SAINT
Model no.	PD-MX80
Color 1	Black
Color 2	-
Color 3	-
Type	Off-Road (Flat Pedal)
SPD	Non-SPD
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
Average weight (pair)	500g
Note	

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	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	6-speed	7-speed	-	-	-	-
Clamp band diameter	22.2mm	-	-	-	-	-	-
	25.0mm	-	-	-	-	-	-
	22.2/25.0mm	-	-	-	-	X	-
C.I.D upper cover	Color	Painted	Painted	Painted	Painted	-	-
C.I.D body	Color	Painted	Painted	Painted	-	-	-
Clamp band	Color	Painted	Painted	Painted	-	-	-
Average weight							
Note		Use with SM-TX20/ TX30/TX35/TX50	Use with SM-TX20/ TX30/TX35/TX50	Use with SM-TX20/ TX30/TX35/TX50	dummy cover	Bracket for ID-TX50/TX51/ SC-TX31/SM-TX32/ SM-TX37	Cowling Use with SM-TX20

SL

BL

ST

RD

FD

BR

RT

RTAD

SMBH

FC

BB

CS

MF

CN

FH

HB

WH

PD

CI-DECK

CI-DECK

Series		Tourney	Tourney	Tourney
Model no.		SM-TX35	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	22.2mm	-	-	-
	25.0mm	-	-	-
	22.2/25.0mm	X	-	-
C.I.D upper cover	Color	-	-	-
C.I.D body	Color	-	-	-
Clamp band	Color	-	-	-
Average weight				
Note	Bracket for ID-TX50/ ID-TX51/SC-TX30/ SC-TX31/SC-TX35/ SM-TX31/SM-TX32/ SM-TX37	Cowling Use with SM-TX35	Analog compass Use with SM-TX20/TX30/ TX35/TX50	

ROAD

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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-5700	
Color	1	Standard	Standard	Standard	Standard	Standard	Silver	
	2			-			Black	
Bracket cover color	1	2-Tone	Standard	Standard	Standard	Standard	Standard	
	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 specifications	Front speeds	2	2	2	2	3	2	
	Rear speeds	11	10	11	10	-	10	
	Optical Gear Display unit	-	-	-	-	-	-	
	Flight Deck	-	X	-	X	X	-	
	Multi-Bearing Construction	R:4 L:4	R:1	- *	1	1	-	
	Outer casing	Lever side	OT-SP41 **	OT-SP41	OT-SP41 **	OT-SP41	OT-SP41	OT-SP41
		RD side	OT-SP41 **	OT-SP41 Sealed	OT-SP41 **	OT-SP41 Sealed	-	OT-SP41 Sealed
	Polymer-coated cable	X	-	X	-	-	-	
	SIL-TEC cable	-	X	-	X	X	X	
Stainless cable								
Brake lever specifications	Reach adjust	Screw	Screw	screw	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	X	-	X	-	-	-	
	New Super SLR	-	X	-	X	X	X	
	Super SLR	-	-	-	-	-	-	
Bracket	Cable adjuster bracket	-	-	-	-	-	-	
Average weight		365g/pair	379g/pair	425g/pair	447g/pair	460g/pair	490g/pair	
Note		** Outer cap with tongue		* Use bush ** Outer cap with short tongue				

Series		105	Tiagra	Tiagra	Non-Series	SORA	SORA	
Model no.		ST-5703	ST-4600	ST-4603	ST-R460	ST-3500	ST-3503	
Color	1	Silver	Standard	Standard	Black	Standard	Standard	
	2	Black						
Bracket cover color	1	Standard	Standard	Standard		Standard	Standard	
	2	White						
Lever type		Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever (ST-4600 operation style)	Dual Control Lever	Dual Control Lever	
Shift lever specifications	Front speeds	3	2	3	2	2	3	
	Rear speeds	-	10	-	10	9	-	
	Optical Gear Display unit	-	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	-
	Polymer-coated cable	-	-	-	-	-	-	
	SIL-TEC cable	X	-	-	-	-	-	
Stainless cable		X	X	X	X	X		
Brake lever specifications	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	X	
Average weight		507g/pair	510g/pair	510g/pair		-	-	
Note			Integrated Cable Adjuster available	Integrated Cable Adjuster available	SHIMANO logo Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE	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	

Shift/Brake Lever

Series		Non-Series	Non-Series	Claris	Claris	Claris	Tourney	
Model no.		ST-R353	ST-R350-R	ST-2400-R	ST-2400-L	ST-2403-L	ST-A070	
Color	1	Black	Black	Standard	Standard	Standard	Standard	
	2							
Bracket cover color	1			Standard	Standard	Standard	Standard	
	2							
Lever type		Dual Control Lever (ST-3500 operation style)	Dual Control Lever (ST-3500 operation style)	Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	
Shift lever specifications	Front speeds	3	-	-	2	3	2	
	Rear speeds	-	9	8	-	-	7	
	Optical Gear Display unit	X	X	X	X	X	X	
	Flight Deck	-	-	-	-	-	-	
	Multi-Bearing Construction	-	-	-	-	-	-	
	Outer casing	Lever side	SP41	SP41	OT-SP41	OT-SP41	OT-SP41	SIS40
		RD side	-	SP41 Sealed	OT-SP41 Sealed	-	-	SIS40
	Polymer-coated cable	-	-	-	-	-	-	
SIL-TEC cable	X	X	-	-	-	-		
Stainless cable	-	-	X	X	X	Option		
Brake lever specifications	Reach adjust	Spacer Use	Spacer Use	Spacer Use	Spacer Use	Spacer Use	Screw	
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
	SLR EV	-	-	-	-	-	-	
	New Super SLR	X	X	X	X	X	-	
	Super SLR	-	-	-	-	-	X	
Bracket	Cable adjuster bracket	-	-	-	-	-	-	
Average weight							-	
Note		SHIMANO logo Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE	SHIMANO logo Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE	Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE	Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE	Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE		

Series		Tourney	
Model no.		ST-A073-L	
Color	1	Standard	
	2	-	
Bracket cover color	1	Standard	
	2		
Lever type		Dual Control lever	
Shift lever specifications	Front speeds	3	
	Rear speeds	-	
	Optical Gear Display unit	X	
	Flight Deck	-	
	Multi-Bearing Construction	-	
	Outer casing	Lever side	SIS40
		RD side	-
	Polymer-coated cable	-	
SIL-TEC cable	-		
Stainless cable	Option		
Brake lever specifications	Reach adjust	Screw	
	Clamp band (mm)	23.8-24.2	
	SLR EV	-	
	New Super SLR	-	
	Super SLR	X	
Bracket	Cable adjuster bracket	-	
Average weight			
Note			

ST

SL

BL

BC

BR

RD

FD

FC

BB

CS

CN

FH

HB

WH

PD

HP

Shift Lever

Series		DURA-ACE	DURA-ACE	DURA-ACE	Non-Series	Non-Series	DURA-ACE
Model no.		SL-B5R1	SL-7900	SL-B579	SL-R780	SL-R783-L	SL-7700
Color	1	Standard	Standard	Standard	Silver	Silver	Standard
	2				Black	Black	
Shifter type		Bar end Shifter	Down Tube Shifter	Bar end Shifter	Rapidfire Plus	Rapidfire Plus	Down Tube Shifter
Front speeds		2/3	2/3	2/3	2	3	2/3
Rear speeds		11	10	10	10	-	9
Integration unit compatible (option)		-	-	-	-	-	-
Max. multiple shifts (thumb lever/ rear)		-	-	-	3	-	-
SL position adjuster (inboard/ outboard)		-	-	-	-	-	-
Release function	Instant release	-	-	-	X	-	-
	Multi release	-	-	-	X(Right) / - (Left)	-	-
	2-Way release	-	-	-	X	X	-
Maximum grip diameter (mm)					36	36	
Clamp band (mm)		-	-	-	22.2	22.2	-
Optical Gear Display		-	-	-	X	X	-
Multi bearing construction		-	-	-	R:2 L:2	2	-
SL cable adjust		-	-	-	X	X	-
SL outer casing	Lever side	OT-SP41	-	OT-SP41	OT-SP41	OT-SP41	-
	RD side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	SP41 Sealed	-	OT-SP41 Sealed
SL Shift Cable	Stainless	X(SIL-TEC)	X(SIL-TEC)	X(SIL-TEC)	X	X	X
lever body	Main	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Release	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Clear Coated
Average weight		153g/pair	63g/pair	153g/pair	270g / pair	270g / pair	-
Note					For flat handle bar	For flat handle bar	

Series		DURA-ACE	ULTEGRA	Tiagra	Tiagra	Non-Series	Non-Series
Model no.		SL-B577	SL-B564-8	SL-4600	SL-4603	SL-R460	SL-R400
Color	1	Standard	Standard	Standard	Standard	Black	Standard
	2						
Shifter type		Bar end Shifter	Bar end Shifter	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Down Tube Shifter
Front speeds		2/3	2/3	2	3	2	2/3
Rear speeds		9	8	10	-	10	8
Integration unit compatible (option)		-	-	-	-	-	-
Max. multiple shifts (thumb lever/ rear)		-	-	5	-	5	-
SL position adjuster (inboard/ outboard)		-	-	-	-	-	-
Release function	Instant release	-	-	X (R)	-	X (right side)	-
	Multi release	-	-	-	-	-	-
	2-Way release	-	-	X	X	X	-
Maximum grip diameter (mm)				36	36	36	-
Clamp band (mm)		-	-	22.2	22.2	22.2	-
Optical Gear Display		-	-	X	X	X	-
Multi bearing construction		-	-	R:2 L:2	2	R:2 L:2	-
SL cable adjust		-	-	X	X	X	-
SL outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	SP41	-
	RD side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	-	SP41 Sealed	OT-SP41 Sealed
SL Shift Cable	Stainless	X	X	X	X	X	X
lever body	Main	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Release	Clear Coated	Clear Coated	Painted	Painted	Painted	Barrel
Average weight		-	-	275g / pair	275g / pair	-	-
Note						SHIMANO logo	

Shift Lever

Series		SORA	SORA	Non-Series	Non-Series	Claris	Claris
Model no.		SL-3500	SL-3503	SL-R350-R	SL-R353	SL-2400-R	SL-2400-L
Color	1	Standard	Standard	Black	Black	Standard	Standard
	2					-	-
Shifter type		Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus
Front speeds		2	3	-	3	-	2
Rear speeds		9	-	9	-	8	-
Integration unit compatible (option)		-	-	-	-	-	-
Max. multiple shifts (thumb lever/ rear)		3	3	3	3	-	-
SL position adjuster (inboard/ outboard)		-	-	-	-	-	-
Release function	Instant release	-	-	-	-	-	-
	Multi release	-	-	-	-	-	-
	2-Way release	X	X	X	X	X	X
Maximum grip diameter (mm)		36	36	36	36	36	36
Clamp band (mm)		22.2	22.2	22.2	22.2	22.2	22.2
Optical Gear Display		X	X	X	X	X	X
Multi bearing construction		-	-	-	-	-	-
SL cable adjust		X	X	X	X	X	X
SL outer casing	Lever side	OT-SP41	OT-SP41	SP41	SP41	OT-SP41	OT-SP41
	RD side	OT-SP41 Sealed	-	SP41 Sealed	-	OT-SP41 Sealed	OT-SP41 Sealed
SL Shift Cable	Stainless	X	X	X	X	X	X
lever body	Main	Aluminum	Aluminum	Aluminum	Aluminum	Steel + Resin	Steel + Resin
	Release	Steel + Resin	Steel + Resin	Painted	Painted	Steel + Resin	Steel + Resin
Average weight		-	-				
Note				SHIMANO logo	SHIMANO logo		

Series		Claris	Claris	Claris	Claris	A050	A050
Model no.		SL-2403-L	ST-R240-R	ST-R240-L	ST-R243-L	SL-A050-7R	SL-A050-LN
Color	1	Standard	Standard	Standard	Standard	Standard	Standard
	2	-	-	-	-		
Shifter type		Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Handle Bar Mount Shifter	Handle Bar Mount Shifter
Front speeds		3	-	2	3	-	2 (Friction)
Rear speeds		-	8	-	-	7	-
Integration unit compatible (option)		-	-	-	-	-	-
Max. multiple shifts (thumb lever/ rear)		-	-	-	-	-	-
SL position adjuster (inboard/ outboard)		-	-	-	-	-	-
Release function	Instant release	-	-	-	-	-	-
	Multi release	-	-	-	-	-	-
	2-Way release	X	X	X	X	-	-
Maximum grip diameter (mm)		36	36	36	36		
Clamp band (mm)		22.2	22.2	22.2	22.2	25.6	25.6
Optical Gear Display		X	X	X	X	-	-
Multi bearing construction		-	-	-	-	-	-
SL cable adjust		X	X	X	X	-	-
SL outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	SIS40	SIS40
	RD side	OT-SP41 Sealed	OT-SP41 Sealed	-	-	SIS40	-
SL Shift Cable	Stainless	X	X	X	X	-	-
lever body	Main	Steel + Resin	Steel + Resin	Steel + Resin	Steel + Resin	Resin	Resin
	Release	Steel + Resin	Steel + Resin	Steel + Resin	Steel + Resin	Resin	Resin
Average weight						-	-
Note							

Shift Lever

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.		SL-SY20A-6-STEM	SL-SY20A-7-STEM	SL-SY20A-6-D	SL-SY20A-7-D	SL-SY20A-6-D/BAND	SL-SY20A-7-D/BAND
Color	1	Standard	Standard	Standard	Standard	Standard	Standard
	2						
Shifter type		Stem Mount Shifter	Stem Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter
Front speeds		2 (Friction)	2 (Friction)	2 (Friction)	2 (Friction)	2 (Friction)	2 (Friction)
Rear speeds		6	7	6	7	6	7
Integration unit compatible (option)		-	-	-	-	-	-
Max. multiple shifts (thumb lever/ rear)		-	-	-	-	-	-
SL position adjuster (inboard/ outboard)		-	-	-	-	-	-
Release function	Instant release	-	-	-	-	-	-
	Multi release	-	-	-	-	-	-
	2-Way release	-	-	-	-	-	-
Maximum grip diameter (mm)							
Clamp band (mm)		22.2	22.2	22.2	22.2	28.6	28.6
Optical Gear Display		-	-	-	-	-	-
Multi bearing construction		-	-	-	-	-	-
SL cable adjust		-	-	-	-	-	-
SL outer casing	Lever side	SIS40	SIS40	SIS40	SIS40	SIS40	SIS40
	RD side	SIS40	SIS40	SIS40	SIS40	SIS40	SIS40
SL Shift Cable	Stainless	-	-	-	-	-	-
lever body	Main	Resin+Zinc Cap	Resin+Zinc Cap	Resin+Zinc Cap	Resin+Zinc Cap	Resin+Zinc Cap	Resin+Zinc Cap
	Release	Resin+CP(Pearl)	Resin+CP(Pearl)	Resin+CP(Pearl)	Resin+CP(Pearl)	Resin+CP(Pearl)	Resin+CP(Pearl)
Average weight		-	-	-	-	-	-
Note				Brazed On Type	Brazed On Type	Band Type	Band Type

Brake Lever

Series		Non-Series	DURA-ACE	Non-Series	Tiagra	Non-Series	SORA
Model no.		BL-R780	BL-TT79	BL-R600	BL-4600	BL-R400	BL-3500
Color	1	Silver	Standard	Standard	Standard	Standard	Standard
	2	Black	-	-	-	-	-
Brake type	V-BRAKE	X	-	-	X	-	X
	Mechanical disc brake (MTB)	-	-	-	-	-	-
	Mechanical disc brake (Road)	X	X	-	X	-	X
	Caliper (new super SLR)	X	X	-	X	-	X
	Caliper (super SLR)	-	-	X	-	X	-
	Canti brake	X	X	-	X	-	X
	Roller brake	-	-	-	-	-	-
Lever size (finger)		2.5		-	2.5	-	2.5
Brake cable type		T-type	-	-	T-type	-	T-type
Clamp band (mm)		22.2	*2	23.8/24.2	22.2	23.8 /24.2	22.2
Power adjuster		-			-		-
Servo-Wave action		-	-	-	-	-	-
Reach adjust		X	X	-	X	-	X
Cable adjust		X	-	-	X	-	X
Noiseless bumper stop		-	-	-	X	-	X
Average weight		129g/pair	89g/pair	-	176g/pair	-	-
Note			*2 : Fixiation structure is expanding plug clamp, handle bar inside diameter : 19.0-22.5 dim, handle bar outside diameter : 22.2-24.0 dim.				

Brake Lever

Series		Claris	Claris	Claris	Claris
Model no.		BL-2400	ST-R240-R	ST-R240-L	ST-R243-L
Color	1	Standard	Standard	Standard	Standard
	2		-	-	-
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	X	X	X
	Caliper (super SLR)	X	X	X	X
	Canti brake	X	X	X	X
	Roller brake	-	-	-	-
Lever size (finger)		2.5	2.5	2.5	2.5
Brake cable type		T-type	T-type	T-type	T-type
Clamp band (mm)		22.2	22.2	22.2	22.2
Power adjuster		-	-	-	-
Servo-Wave action		-	-	-	-
Reach adjust		X	X	X	X
Cable adjust		X	X	X	X
Noiseless bumper stop		X	X	X	X
Average weight					
Note					

Brake Cable

Series		DURA-ACE	Non-Series	Non-Series
Model no.		BC-9000	BC-R680	BC-1051
Spec.		High-tech gray, Black, White, Red 800x1000mm 1800x2000mm	High-tech gray, Black, White, Red, Orange, Blue, LIME-GREEN, Yellow 800x1000mm, 1800x2000mm	High-tech gray, Black, White, Red, Orange, Blue, LIME-GREEN 800x1000mm 1800x2000mm
Inner cable	Coated	Polymer-coated cable	Polymer-coated cable	-
Average weight		-		-
Note		Prelubricated casings	Prelubricated casings	

Brake

Caliper Brake

Series		DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		BR-9000	BR-9010-F	BR-9010-R	BR-6800	BR-6810-F	BR-6810-R
Color	1	Standard	Standard	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
Type		SLR EV Dual Pivot	Direct mount type	Direct mount type	Super SLR Dual Pivot	Direct mount type	Direct mount type
Reach (mm)		49	49	49	51	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)		10.5/ 12.5/18.0 / 25.0/32.0	-	-	10.5/ 12.5/18.0 / 27.0/32.0	-	-
Cartridge shoe holder		X	X	X	X	X	X
Tire guide bumpers		X	X	X	X	X	X
QR		X	X	-	X	X	-
Shoe angle adjusting		X	X	X	X	X	X
Spring tension adjusting		X	X	X	X	X	X
Titanium cable fixing bolt		X	X	X	-	-	-
Titanium pivot bolt		X	x (fixing bolt)	x (fixing bolt)	-	-	-
Average weight		297g/pair	153g/pcs	127g/pcs	335g/pair	168g/pcs	165g/pcs
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: 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)

Series		Non-Series	105	105	105	Non-Series	Tiagra
Model no.		BR-R650	BR-5710-F	BR-5710-R	BR-5700-S/L	BR-R561 (S) / (L)	BR-4600
Color	1	Silver	Black	Black	Silver	Silver	Standard
	2	-	-	-	Black	Black	-
Type		Super SLR Dual Pivot	Direct mount type	Direct mount type	Super SLR Dual Pivot	Super SLR Dual Pivot	Super SLR Dual Pivot
Reach (mm)		57	51	51	49	49	49
Brake shoe	Standard	R55C2	R55C4	R55C4	R55C3	R55C3	R50T2
	Optional choice	R55C for Carbon rim R55C for Ceramic rim	R55C4 Carbon R55C4-1 Carbon	R55C4 Carbon R55C4-1 Carbon	R55C for Ceramic rim R55C3 for Carbon rim	R55C for Ceramic rim R55C3 for Carbon rim	-
Compatibility		SUPER SLR	SLR EV	SLR EV	New SUPER SLR	New SUPER SLR	New SUPER SLR
Assembly pivot nut (mm)		10.5 / 12.5 / 18.0 / 27.0	-	-	10.5 / 12.5 / 18.0 / 27.0/32.0	10.5/ 12.5/ 18.0/27.0	10.5/ 12.5/ 18.0/ 27.0
Cartridge shoe holder		X	X	X	X	X	-
Tire guide bumpers		-	-	-	-	-	-
QR		X	X	-	X	X	X
Shoe angle adjusting		X	X	X	X	X	X
Spring tension adjusting		-	X	X	-	-	-
Titanium cable fixing bolt		-	-	-	-	-	-
Titanium pivot bolt		-	-	-	-	-	-
Average weight		-	189g/pcs	177g/pcs	358g/pair	-	-
Note		Maximum tire size: 28mm	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)	Maximum tire size: 28mm	Maximum tire size: 28mm	Maximum tire size: 28mm

Brake

Caliper Brake

Series		Non-Series	SORA	Claris
Model no.		BR-R451	BR-3500	BR-2400
Color	1	Black	Black	Standard
	2	Silver	-	
Type		Super SLR Dual Pivot	Super SLR Dual Pivot	Super SLR Dual Pivot
Reach (mm)		57	49	49
Brake shoe	Standard	R50T2	R50T2	R50T2
	Optional choice	-	-	R50T4
Compatibility		SUPER SLR	New SUPER SLR	New SUPER SLR
Assembly pivot nut (mm)		10.5/12.5/18.0/27.0	10.5 / 12.5 / 18.0 / 27.0	10.5/ 12.5/ 18.0/ 27.0
Cartridge shoe holder		-	-	-
Tire guide bumpers		-	-	-
QR		X	X	X
Shoe angle adjusting		X	X	X
Spring tension adjusting		-	-	-
Titanium cable fixing bolt		-	-	-
Titanium pivot bolt		-	-	-
Average weight		-	-	-
Note		QR Wider Open Maximum tire size: 32mm	Maximum tire size: 28mm	Maximum tire size: 28mm

Brake

Canti Lever Brake

Series		Non-Series	Non-Series
Model no.		BR-CX70	BR-CX50
Color	1	Glossy Grey	Black
	2	-	Silver
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		-	-
Shoe angle adjusting		X	X
Spring tension adjusting		X	X
Average weight		165g	175g
Note		Cyclocross usage	Cyclocross usage

Brake

V-BRAKE

Series		Non-Series	Non-Series	Non-Series
Model no.		BR-R573	BR-R463	BR-R353
Color	1	Silver/Black	Silver	Silver/Black
	2			
Brake type		V-BRAKE	V-BRAKE	V-BRAKE
Compatibility		MTB V-BRAKE	MTB V-BRAKE	MTB V-BRAKE
Link wire		-	-	-
Reinforced link		-	-	-
Parallel link		-	-	-
Power modulator		-	-	-
Linear spring		X	X	X
Threaded BR shoe post		X	X	X
Brake shoe type	Standard	M70R2	S70C	S70T
	Option 1	M70CT4	M70CT4	M70T4
	Option 2	S70C	-	-
Arch size (mm)		90	90	90
Fixing bolt length (mm)		16 / 25	16 / 25	16 / 25
Sleeve & Bushing type		X	X	X
Lead pipe angle		45/90/135	45/90/135	45/90/135
Cartridge shoe holder		X	X	-
Average weight				
Note		SHIMANO logo	SHIMANO logo	SHIMANO logo

Brake

Disc Brake

Series		Non-Series	Non-Series	Non-Series
Model no.		BR-CX77	BR-R517	BR-R317
Color	1	Glossy Grey	Black	Silver
	2	-	Silver	Black
Brake type		Mechanical Disc-brake	Mechanical Disc-brake	Mechanical Disc-brake
Compatibility		New SUPER SLR	New SUPER SLR	New SUPER SLR
Recommended brake lever		ST-9001/ST-9070/ ST-6800/ST-6870/ ST-6700/ 6770/ BL-R780	ST-4600/5700 BL-4600/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-type	Post-type	Post-type
Caliper	Mono-body	-	-	-
Pad	Standard	G01A Resin	G01S Resin	G01S Resin
	Option	G03Ti	-	-
Cable		SLR Brake	SLR Brake	SLR Brake
Average weight		159g		
Note		Cyclecross usage	SHIMANO logo	SHIMANO logo

Brake

Hydraulic Disc Brake

Series		Non-Series
Model no.		BR-R785
Usage		On-Road, Cyclocross
Color	1	6800 Standard
	2	-
System power		
Brake type		Hydraulic disc brake
Recommended brake rotor		SM-RT98 (SS, S) SM-RT99 (SS, S)
Hydraulic or Mechanical		Hydraulic disc brake
Oil		Mineral oil
Mount type		Post-mount
Caliper	structure	2-piece
Caliper fixing bolt		Steel
Hose		SM-BH59-SB-J
Hose joint		Banjo
Hose color (kit)	Black	X
	White	X
Pad	Standard	F01A Resin F03C Metal
	Option	G01A Resin G03S Metal
Average weight		262g
Note		

ST

SL

BL

BC

BR

RD

FD

FC

BB

CS

CN

FH

HB

WH

PD

HP

Rear Derailleur

Series		DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	105
Model no.		RD-9000-SS	RD-6800-SS	RD-6800-GS	RD-6700-A-SS	RD-6700-A-GS	RD-5701-SS
Color	1	Standard	Standard	Standard	Silver	Silver	Silver
	2	-	-	-	Glossy Grey	Glossy Grey	Black
Spec.		SS	SS	GS	SS	GS	SS
Usage			Road	Road			
Rear speeds		11	11	11	10	10	10
Max. front difference		16T	16T	16T	16T	22T	16T
Total capacity		33T	33T	37T	34T	40T	34T
Low sprocket	Max.	28T	28T	32T	30T	30T	30T
	Min.	23T	23T	28T	23T	23T	25T
Top sprocket	Max.	12T	12T	12T	15T	14T	14T
	Min.	11T	11T	11T	11T	11T	11T
Riveted adapter available		X	X	X	X	X	X
Fluorine coated link bushings		4	4	4	4	4	2
Pulley	G pulley bearing	X	-	-	-	-	-
	T pulley bearing	X	X	X	X	X	-
	Teeth	11t	11t	11t	11t	11t	11t
Bracket pivot bolt	Hollow axle	X	X	X	X	X	-
Cable adjust barrel		X	X	X	X	X	X
Average weight		158g	195g	207g	189g	199g	230g
Note							

Series		105	105	Tiagra	Tiagra	Tiagra	SORA
Model no.		RD-5701-GS	RD-5701-GS	RD-4601-SS	RD-4601-GS	RD-4601-GS	RD-3500-SS
Color	1						
	2						
Spec.		GS (Front triple)	GS (Front double)	SS	GS (Front triple)	GS (Front double)	SS
Usage							
Rear speeds		10	10	10	10	10	9
Max. front difference		22T	16T	16T	22T	16T	16T
Total capacity		40T	37T	34T	40T	37T	37T
Low sprocket	Max.	30T	32T	30T	30T	32T	32T
	Min.	25T	27T	25T	25T	27T	25T
Top sprocket	Max.	14T	12T	14T	14T	12T	14T
	Min.	11T	11T	11T	11T	11T	11T
Riveted adapter available		X	X	X	X	X	X
Fluorine coated link bushings		2	2	2	2	2	2
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	11t	11t	11t	11t	11t	11t
Bracket pivot bolt	Hollow axle	-	-	-	-	-	-
Cable adjust barrel		X	X	X	X	X	X
Average weight		243g	243g	-	-	-	-
Note							

Rear Derailleur

Series		SORA	Non-Series	Non-Series	Claris	Claris	Tourney A070
Model no.		RD-3500-GS	RD-R350-10-SS	RD-R350-GS	RD-2400-SS	RD-2400-GS	RD-A070
Color	1		Black	Black	Standard	Standard	
	2						
Spec.		GS	SS	GS	SS	GS	Smart
Usage			Road	Road	Road	Road	
Rear speeds		9	10	9	8	8	7
Max. front difference		20T	12T	20T	16T	20T	20T
Total capacity		41T	35T	41T	37T	41T	37T
Low sprocket	Max.	32T	34T	32T	32T	32T	28T
	Min.	25T	30T	25T	25	25	28T
Top sprocket	Max.	14T	12T	14T	13	13	14T
	Min.	11T	11T	11T	11T	11T	11T
Riveted adapter available		X	-	-	-	-	X
Fluorine coated link bushings		2	2	2	-	-	-
Pulley	G pulley bearing		-	-	-	-	
	T pulley bearing	-	-	-	-	-	-
	Teeth	11t	11t	11t	11T	11T	11/13T
Bracket pivot bolt	Hollow axle	-	-	-	-	-	-
Cable adjust barrel		X	X	X	X	X	X
Average weight		-					-
Note			SHIMANO logo	SHIMANO logo			

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	Standard	Standard	Standard	Standard	Silver	Silver
	2			-	-	Glossy Grey	Glossy Grey
Front speeds		2	2	2	2	2	2
Rear speeds		11	11	11	11	10	10
Chain compatibility		CN-9000	CN-9000	CN-6800	CN-6800	CN-6701	CN-6701
Action	Top swing action	-	-	-	-	-	-
	Down swing action	X	X	X	X	X	X
Mount	Clamp band	X	-	X	-	X	-
	Brazed-On	-	X	-	X	-	X
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
Mid gear teeth		-	-	-	-	-	-
Top-Low capacity		16T	16T	16T	16T	16T	16T
Applicable top-mid tooth difference		-	-	-	-	-	-
Maximum rear sprocket		23-28T	23-28T	23-32T	23-32T	21-32T	21-32T
Angled clamp band design		-	-	-	-	-	-
Clamp band size	28.6mm	X (w/AdapterS)	-	X (w/AdapterS)	-	X (w/AdapterS)	-
	31.8mm	X	-	X	-	X	-
	34.9mm	X	-	X	-	X	-
Average weight		78g	66g	104g (L size)	89g	104g (L size)	89g
Note							

Front Derailleur

Series		ULTEGRA	ULTEGRA	Non-Series	Non-Series	Non-Series	Non-Series
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	Standard	Standard	Standard	Standard
	2	Glossy Grey	Glossy Grey				
Front speeds		3	3	2	2	2	2
Rear speeds		10	10	10	10	10	10
Chain compatibility		CN-6600	CN-6600	CN-6701	CN-6701	CN-6701	CN-6701
Action	Top swing action	-	-	-	-	-	-
	Down swing action	X	X	X	X	X	X
Mount	Clamp band	X	-	X	X	-	-
	Brazed-On	-	X	-	-	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
Mid gear teeth		39T	39T	-	-	-	-
Top-Low capacity		22T	22T	16T	16T	16T	16T
Applicable top-mid tooth difference		13T	13T	-	-	-	-
Maximum rear sprocket		21-30T	21-30T	21-32T	21-32T	21-32T	21-32T
Angled clamp band design		-	-	-	-	-	-
Clamp band size	28.6mm	X (w/AdapterS)	-	X (w/AdapterS)	X (w/AdapterS)	-	-
	31.8mm	X	-	X	X	-	-
	34.9mm	X	-	X	X	-	-
Average weight		131g (L size)	114g	108g	103g	92g	87g
Note							

Series		105	105	105	105	Tiagra	Tiagra
Model no.		FD-5700-B	FD-5700-F	FD-5703-B	FD-5703-F	FD-4600-B	FD-4600-F
Color	1	Silver / Black	Silver	Silver	Silver	Standard	Standard
	2		Black	Black	Black		
Front speeds		2	2	3	3	2	2
Rear speeds		10	10	10	10	10	10
Chain compatibility		CN-5701	CN-5701	CN-5600	CN-5600	CN-4601	CN-4601
Action	Top swing action	-	-	-	-	-	-
	Down swing action	X	X	X	X	X	X
Mount	Clamp band	X	-	X	-	X	-
	Brazed-On	-	X	-	X	-	X
Chain line (mm)		43.5	43.5	45	45	43.5	43.5
Chain stay angle		61-66	61-66	63-66	63-66	61-66	61-66
Top gear teeth		50-56T	50-56T	50T	50T	46-52T	46-52T
Mid gear teeth		-	-	39T	39T	-	-
Top-Low capacity		16T	16T	20T	20T	16T	16T
Applicable top-mid tooth difference		-	-	11T	11T	-	-
Maximum rear sprocket		21-32T	21-32T	21-30T	21-30T	21-32T	21-32T
Angled clamp band design		-	-	-	-	-	-
Clamp band size	28.6mm	X (w/AdapterS)	-	X (w/AdapterS)	-	X (w/AdapterS)	-
	31.8mm	X	-	X	-	X	-
	34.9mm	X	-	X	-	X	-
Average weight		105g (L size)	89g	132g (L size)	114g	105g (L size)	89g
Note							

Front Derailleur

Series		Tiagra	Tiagra	Non-Series	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	Standard	Standard	Black	Standard	Standard	Standard
	2						
Front speeds		3	3	2	2	2	3
Rear speeds		10	10	10	9	9	9
Chain compatibility		CN-5600	CN-5600	CN-HG54	CN-HG53	CN-HG53	CN-HG53
Action	Top swing action	-	-	-	-	-	-
	Down swing action	X	X	X	X	X	X
Mount	Clamp band	X	-	X	X	-	X
	Brazed-On	-	X	-	-	X	-
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
Mid gear teeth		39T	39T	-	-	-	39T
Top-Low capacity		20T	20T	16T	16T	16T	20T
Applicable top-mid tooth difference		11T	11T	-	-	-	20T
Maximum rear sprocket		21-32T	21-32T	30-34T	25-32T	25-32T	25-32T
Angled clamp band design		-	-	-	-	-	-
Clamp band size	28.6mm	X (w/AdapterS)	-	-	X (w/AdapterS)	-	X (w/AdapterS)
	31.8mm	X	-	X	X	-	X
	34.9mm	X	-	X	X	-	X
Average weight		132g (L size)	114g		-	-	-
Note				SHIMANO logo			

Series		SORA	Non-Series	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	Standard	Black	Standard	Standard	Standard	Standard
	2						
Front speeds		3	3	2	2	3	3
Rear speeds		9	9	8	8	8	8
Chain compatibility		CN-HG53	CN-HG53	CN-HG50	CN-HG50	CN-HG50	CN-HG50
Action	Top swing action	-	-	-	-	-	-
	Down swing action	X	X	X	X	X	X
Mount	Clamp band	-	X	X	-	X	-
	Brazed-On	X	-	-	X	-	X
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
Mid gear teeth		39T	39T	-	-	39T	39T
Top-Low capacity		20T	20T	16T	16T	20T	20T
Applicable top-mid tooth difference		20T	11T	-	-	11T	11T
Maximum rear sprocket		25-32T	25-32T	23-32T	23-32T	23-32T	23-32T
Angled clamp band design		-	-	X	X	X	X
Clamp band size	28.6mm	-	-	X (w/Adapter S)	-	X (w/Adapter S)	-
	31.8mm	-	-	X	-	X	-
	34.9mm	-	X	X	-	X	-
Average weight		-					
Note			SHIMANO logo				

Front Derailleur

Series		Tourney	Tourney	A050
Model no.		FD-A070-A	FD-A073	FD-A050
Color	1	Series color	Series color	Standard
	2	-	-	
Front speeds		2	3	2 (Friction)
Rear speeds		7	7	7
Chain compatibility		CN-HG40 / CN-UG51	CN-HG40 / CN-UG51	CN-HG40/CN-UG51
Action	Top swing action	-	-	-
	Down swing action	X	X	X
Mount	Clamp band	X	X	X
	Brazed-On	-	-	
Chain line (mm)		43.5	45	43.5
Chain stay angle		61-66	63-66	61-66
Top gear teeth		50T	50T	53T
Mid gear teeth		-	39T	-
Top-Low capacity		16T	20T	16T
Applicable top-mid tooth difference		-	11T	16T
Maximum rear sprocket		28T	28T	28T
Angled clamp band design		X	X	-
Clamp band size	28.6mm	X (Adapter S)	X (Adapter S)	X
	31.8mm	X (Adapter M)	X (Adapter M)	X
	34.9mm	X	X	-
Average weight				
Note				-

Front Chainwheel

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA
Model no.		FC-9000	FC-7900	FC-7950	FC-7710	FC-6800	FC-6700
Color	1	Standard	Standard	Standard	Standard	Standard	Silver
	2	-	-	-	-	-	Glossy Grey
Chainring combination		50-34T 52-36T 52-38T 53-39T 54-42T 55-42T	53-42T 52-39T 53-39T 54-42T 55-42T 56-44T	50-34T	45T>>55T (1/2"x1/8") 45T>>55T (1/2"x3/32")	53-39T 50-34T 52-36T 46-36T	52-39T 53-39T
P.C.D. (mm)		110	130	110	144	110	130
Gears	Chain line (mm)	43.5	43.5	43.5	42.5	43.5	43.5
	Rear speeds	11	10	10	Single	11	10
	Gear arms	4	5	5	5	4	5
	Arm Adapter	-	-	-	-	-	-
Crank arm length (mm)	165.0	X	X	X	X	X	X
	167.5	X	X	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	X	X	-	-	-
180.0	X	X	X	-	-	-	
Chain		HG-EV 11-speed	Supre Narrow HG for 10-speed (CN-7901)	Supre Narrow HG for 10-speed (CN-7901)	1/2"x1/8" 1/2"x3/32"	HG-EV 11-speed	Supre Narrow HG for 10-speed (CN-6701)
Hollow Crank Arm		X	X	X	X	X	X
Axle length (mm)		-	-	-	109.5	-	-
Optional chain guard		-	-	-	-	-	-
HOLLOWTECH II Technology		X	X	X	X	X	X
2-piece crank construction		-	-	-	-	-	-
HOLLOWTECH crank arm		X	X	X	X	X	-
OCTALINK Technology		-	-	-	X	-	-
One key release		-	-	-	X	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB9000	SM-BB7900	SM-BB7900	BB-7710 / 7700	SM-BBR60	SM-BB6700
	Pressfit	SM-BB92-41B	SM-BB92-41B	SM-BB92-41B	-	SM-BB72-41B	SM-BB72-41B
	Splined crank Arm Mounts	X	X	X	X	X	X
Average weight(170mm)		683g(50-34T, w/BB) 683g(53-39T, w/BB)	735g (53-39T, integrated BB)	735g (integrated BB)	82g (46T, 1 / 2"x 1 / 8")	765g(50-34T, w/BB) 765g(53-39T, w/BB)	790g (53-39T, integrated BB)
Note							

Front Chainwheel

Series		ULTEGRA	ULTEGRA	Non-Series	Non-Series	Non-Series	105
Model no.		FC-6703	FC-6750	FC-R601	FC-R603	FC-CX70	FC-5700
Color	1	Silver	Silver	Standard	Standard	Glossy Grey	Silver
	2	Glossy Grey	Glossy Grey	-	-	-	Black
Chaining combination		52-39-30T	50-34T	40T (Left side)	52-39-30T (Right side) 40T (Left side)	46-36T	52-39T 53-39T
P.C.D. (mm)		130 / 92	110	130	130/92	110	130
Gears	Chain line (mm)	45	43.5	49.5	52.5 (L) / 45 (R)	43.5	43.5
	Rear speeds	10	10	Single	10	10	10
	Gear arms	5	5	5	5	5	5
	Arm Adapter	-	-	-	-	-	-
Crank arm length (mm)	165.0	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	-	-	-	-	-	-
180.0	-	-	-	-	-	-	
Chain		Supre Narrow HG for 10-speed(CN-6600)	Supre Narrow HG for 10-speed (CN-6701)	Supre Narrow HG for 10-speed (CN-6600)	Supre Narrow HG for 10-speed (CN-6600)	Supre Narrow HG for 10-speed (CN-6701)	Super Narrow HG for 10-speed (CN-5701)
Hollow Crank Arm		X	X	X	X	X	X
Axle length (mm)		-	-	-	-	-	-
Optional chain guard		-	-	-	-	-	-
HOLLOWTECH II Technology		X	X	X	X	X	X
2-piece crank construction		-	-	-	-	-	-
HOLLOWTECH crank arm		X	X	X	X	X	X
OCTALINK Technology		-	-	-	-	-	-
One key release		-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB6700	SM-BB6700	Included	SM-BB6700	SM-BB6700	SM-BB5700
	Pressfit	SM-BB72-41B	SM-BB72-41B	SM-BB71-41B	SM-BB71-41B	SM-BB72-41B	SM-BB71-41B
	Splined crank Arm Mounts	X	X	X	X	X	X
Average weight(170mm)		892g (integrated BB)	788g (integrated BB)	724g (integrated BB)	1048g (integrated BB)	809g (integrated BB)	846g (53-39T, integrated BB)
Note				Tandem front	Tandem Rear		

Series		105	105	Non-Series	Non-Series	Non-Series	Tiagra
Model no.		FC-5750	FC-5703	FC-R563	FC-R565	FC-CX50	FC-4600
Color	1	Silver	Silver	Silver	Silver	Silver	Standard
	2	Black	Black	Black	Black	Black	-
Chaining combination		50-34T	50-39-30T	50-39-30T	50-34T	46-36T	52-39T
P.C.D. (mm)		110	130 / 74	130/92	110	110	130
Gears	Chain line (mm)	43.5	45	45	43.5	43.5	43.5
	Rear speeds	10	10	10	10	10	10
	Gear arms	5	5	5	5	5	5
	Arm Adapter	-	-	-	-	-	-
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	-	X
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
180.0	-	-	-	-	-	-	
Chain		Super Narrow HG for 10-speed (CN-5701)	Super Narrow HG for 10-speed (CN-5600)	Super Narrow HG for 10-speed (CN- 5600)	Super Narrow HG for 10-speed (CN- 4601)	Supre Narrow HG for 10-speed (CN-4601)	Super Narrow HG for 10-speed (CN-4601)
Hollow Crank Arm		X	X	-	-	-	-
Axle length (mm)		-	-	-	-	-	-
Optional chain guard		-	-	-	-	-	-
HOLLOWTECH II Technology		X	X	-	-	-	-
2-piece crank construction		-	-	X	X	X	X
HOLLOWTECH crank arm		X	X	-	-	-	-
OCTALINK Technology		-	-	-	-	-	-
One key release		-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB5700	SM-BB5700	SM-BB5700	SM-BB5700	SM-BB4600	SM-BB4600
	Pressfit	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B
	Splined crank Arm Mounts	X	X	X	X	X	X
Average weight(170mm)		805g (integrated BB)	920g (integrated BB)	-	-	972g (integrated BB)	-
Note							

Front Chainwheel

Series		Tiagra	Tiagra	Non-Series	Non-Series	Non-Series	SORA
Model no.		FC-4650	FC-4603	FC-R460	FC-R460	FC-R453	FC-3550
Color	1	Standard	Standard	Black	Black	Black	Standard
	2	-	-	-	-	-	-
Chaining combination		50-34T	50-39-30T	46-34T	48-34T	50-39-30T	50-34T 46-34T
P.C.D. (mm)		110	130 / 92	110	110	130/74	110
Gears	Chain line (mm)	43.5	45	43.5	43.5	45	43.5
	Rear speeds	10	10	10	10	9	9
	Gear arms	5	5	5	5	5	5
	Arm Adapter	-	-	-	-	-	-
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	-	-	-	-
	175.0	X	X	X	X	X	X
	177.5	-	-	-	-	-	-
Chain		Super Narrow HG for 10-speed (CN-4601)	Super Narrow HG for 10-speed (CN-5600)	HG-X	HG-X	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed (CN-HG53)
Hollow Crank Arm		-	-	-	-	-	-
Axle length (mm)		-	-	-	-	121	-
Optional chain guard		-	-	-	-	-	X
HOLLOWTECH II Technology		-	-	-	-	-	-
2-piece crank construction		X	X	X	X	-	X
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK Technology		-	-	-	-	X	-
One key release		-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB4600	SM-BB4600	SM-BB4600	SM-BB4600	BB-ES25	SM-BB4600
	Pressfit	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B	-	SM-BB71-41B
	Splined crank Arm Mounts	X	X	X	X	X	X
Average weight(170mm)		-	-	-	-	-	-
Note				SHIMANO logo	SHIMANO logo	SHIMANO logo	

Series		SORA	Non-Series	Non-Series	Claris	Claris	Claris
Model no.		FC-3503	FC-R350	FC-R345	FC-2450	FC-2450	FC-2403
Color	1	Standard	Standard	Silver	Standard	Standard	Standard
	2	-	-	Black	Black	Black	Black
Chaining combination		50-39-30T	52-39T	50-34T	50-34T	46-34T	50-39-30T
P.C.D. (mm)		130 / 74	130	110	110	110	130/74
Gears	Chain line (mm)	45	43.5	43.5	43.5	43.5	45
	Rear speeds	9	9	9	8	8	8
	Gear arms	5	5	5	5	5	5
	Arm Adapter	-	-	-	-	-	-
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	-	-	-	-	-	-
Chain		Super Narrow HG for 9-speed (CN-HG53)	Super Narrow HG for 9-speed (CN-HG53)	Super Narrow HG for 9-speed	Super Narrow HG for 8-speed (CN-HG50)	Super Narrow HG for 8-speed (CN-HG50)	Super Narrow HG for 8-speed (CN-HG50)
Hollow Crank Arm		-	-	-	-	-	-
Axle length (mm)		-	-	113	113	113	121
Optional chain guard		X	X	X	X	X	X
HOLLOWTECH II Technology		-	-	-	-	-	-
2-piece crank construction		X	X	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK Technology		-	-	X	X	X	X
One key release		-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB4600	SM-BB4600	BB-ES25	BB-ES25	BB-ES25	BB-ES25
	Pressfit	SM-BB71-41B	SM-BB71-41B	-	-	-	-
	Splined crank Arm Mounts	X	X	X	X	X	X
Average weight(170mm)		-	-	-	-	-	-
Note							

Front Chainwheel

Series		Tourney A070	Tourney
Model no.		FC-A070	FC-A073
Color	1	Standard	Series color
	2	-	-
Chaining combination		50-34T	50-39-30T
P.C.D. (mm)		Riveted	Riveted
Gears	Chain line (mm)	43.5	45
	Rear speeds	7/8	7/8
	Gear arms	5	5
	Arm Adapter	-	-
Crank arm length (mm)	165.0	X	X
	167.5	-	-
	170.0	X	X
	172.5	-	-
	175.0	-	-
	177.5	-	-
Chain		CN-HG40 / CN-UG51	CN-HG40 / CN-UG51
Hollow Crank Arm		-	-
Axle length (mm)		MM110	LL113
Optional chain guard		X	X
HOLLOWTECH II Technology		-	-
2-piece crank construction		-	-
HOLLOWTECH crank arm		-	-
OCTALINK Technology		-	-
One key release		-	-
Recommended bottom bracket	Threaded (normal)	BB-UN26	BB-UN26
	Pressfit	-	-
	Splined crank Arm Mounts	-	-
Average weight(170mm)		-	-
Note			

Bottom Bracket

Series				DURA-ACE	Non-Series	DURA-ACE	DURA-ACE	Non-Series	Non-Series
Model no.				SM-BB9000	SM-BB92-41B	BB-7700	BB-7710	SM-BB72-41B	SM-BBR60
Color	1			Standard	Standard	Standard	Standard	Standard	Standard
	2							-	-
Applicable front chainwheel				FC-9000	FC-9000	FC-7710	FC-7710	FC-6800	FC-6800
Hollow pipe				X	X	X	X	X	X
Cartridge type				-	-	-	X	-	-
Splined crank arm mounts				X	X	X	X	X	X
Axle length / BB spec.	HOLLOW-TECH II construction	68mm	(BC1.37)	X	X	-	-	-	X
		70mm	(M36)	X	X	-	-	-	X
	109.5 mm	68mm	(BC1.37)	-	-	X	X	-	-
		70mm	(M36)	-	-	X	-	-	-
	118.5 mm	68mm	(BC1.37)	-	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-	-
	113 mm	68mm	(BC1.37)	-	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-	-
	121mm	68mm	(BC1.37)	-	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-	-
	MM107	68mm	(BC1.37)	-	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-	-
	MM110	68mm	(BC1.37)	-	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-	-
	LL113	68mm	(BC1.37)	-	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-	-
Average weight				65g	54g	173g	244g	63g	77g
Note					Press-Fit type		For track	Press-fit type	

Bottom Bracket

Series				ULTEGRA	105	105	105	Tiagra	Tiagra	
Model no.				SM-BB6700	SM-BB5700	SM-BB5500	SM-BB5500	BB-ES51	BB-ES51	
Color		1		Standard	Standard					
		2								
Applicable front chainwheel				FC-6700/6703/6750/ CX70	FC-5700/5703/5750	FC-5502	FC-5505	FC-4401	FC-4404	
Hollow pipe				X	X	X	X	X	X	
Cartridge type				-	-	X	X	X	X	
Splined crank arm mounts				X	X	X	X	X	X	
Axle length / BB spec.	HOLLOW-TECH II construction	68mm	(BC1.37)	X	X	-	-	-	-	
		70mm	(M36)	X	X	-	-	-	-	
	109.5 mm	68mm	(BC1.37)	-	-	X	-	-	-	
		70mm	(M36)	-	-	X	-	-	-	
	118.5 mm	68mm	(BC1.37)	-	-	-	X	-	-	
		70mm	(M36)	-	-	-	X	-	-	
	113 mm	68mm	(BC1.37)	-	-	-	-	X	-	
		70mm	(M36)	-	-	-	-	X	-	
	121mm	68mm	(BC1.37)	-	-	-	-	-	X	
		70mm	(M36)	-	-	-	-	-	X	
	MM107	68mm	(BC1.37)	-	-	-	-	-	-	
		70mm	(M36)	-	-	-	-	-	-	
	MM110	68mm	(BC1.37)	-	-	-	-	-	-	
		70mm	(M36)	-	-	-	-	-	-	
	LL113	68mm	(BC1.37)	-	-	-	-	-	-	
		70mm	(M36)	-	-	-	-	-	-	
	Average weight				89g	89g				
	Note						For double	For triple	For double	For triple

Series				Tiagra	SORA	SORA	Claris	Claris	Tourney A070	
Model no.				SM-BB4600	SM-BB4600	BB-ES25	BB-ES25	BB-ES25	BB-UN26	
Color		1		Standard	Standard	Standard	Standard	Standard	Standard	
		2								
Applicable front chainwheel				FC-4600/4603/4650/ R565/R563/CX50	FC-3500/3503/4600/ 4603/4650/ R565/R563/CX50	FC-R453	FC-2450	FC-2403	FC-A070	
Hollow pipe				X	X	X	X	X	-	
Cartridge type				-	-	X	X	X	X	
Splined crank arm mounts				X	X	X	X	X	-	
Axle length / BB spec.	HOLLOW-TECH II construction	68mm	(BC1.37)	X	X	-	-	-	-	
		70mm	(M36)	X	X	-	-	-	-	
	109.5 mm	68mm	(BC1.37)	-	-	-	-	-	-	
		70mm	(M36)	-	-	-	-	-	-	
	118.5 mm	68mm	(BC1.37)	-	-	-	-	-	-	
		70mm	(M36)	-	-	-	-	-	-	
	113 mm	68mm	(BC1.37)	-	-	-	X	-	-	
		70mm	(M36)	-	-	-	X	-	-	
	121mm	68mm	(BC1.37)	-	-	X	-	X	-	
		70mm	(M36)	-	-	-	-	-	-	
	MM107	68mm	(BC1.37)	-	-	-	-	-	-	
		70mm	(M36)	-	-	-	-	-	-	
	MM110	68mm	(BC1.37)	-	-	-	-	-	X	
		70mm	(M36)	-	-	-	-	-	X	
	LL113	68mm	(BC1.37)	-	-	-	-	-	-	
		70mm	(M36)	-	-	-	-	-	-	
	Average weight									
	Note						For Triple	For Double	For Triple	For Double

Bottom Bracket

Series		Tourney A070		
Model no.		BB-UN26		
Color	1	Standard		
	2			
Applicable front chainwheel		FC-A073		
Hollow pipe		-		
Cartridge type		X		
Splined crank arm mounts		-		
Axle length / BB spec.	HOLLOW-TECH II construction	68mm	(BC1.37)	-
		70mm	(M36)	-
	109.5 mm	68mm	(BC1.37)	-
		70mm	(M36)	-
	118.5 mm	68mm	(BC1.37)	-
		70mm	(M36)	-
	113 mm	68mm	(BC1.37)	-
		70mm	(M36)	-
	121mm	68mm	(BC1.37)	-
		70mm	(M36)	-
	MM107	68mm	(BC1.37)	-
		70mm	(M36)	-
	MM110	68mm	(BC1.37)	-
		70mm	(M36)	-
	LL113	68mm	(BC1.37)	X
		70mm	(M36)	X
Average weight				
Note		For Triple		

ST

SL

BL

BC

BR

RD

FD

FC

BB

CS

CN

FH

HB

WH

PD

HP

Cassette Sprocket

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	
Model no.	CS-9000	CS-9000	CS-9000	CS-9000	CS-9000	CS-7900	
Type	HG-EV	HG-EV	HG-EV	HG-EV	HG-EV	HG	
Speeds	11	11	11	11	11	10	
Combination	11	23	25	28	25	28	-
	10	21	23	25	23	25	21
	9	19	21	23	21	23	19
	8	18	19	21	19	21	18
	7	17	17	19	18	19	17
	6	16	16	17	17	17	16
	5	15	15	15	16	16	15
	4	14	14	14	15	15	14
	3	13	13	13	14	14	13
	2	12	12	12	13	13	12
1	11	11	11	12	12	11	
Group	-	-	-	-	-	-	
Recommended chain	HG-EV 11-speed	HG-EV 11-speed	HG-EV 11-speed	HG-EV 11-speed	HG-EV 11-speed	HG 10-speed	
Spider arm (pcs)	2	2	2	2	2	2	
Aluminum lock ring	X	X	X	X	X	X	
Average weight	165g	175g	193g	189g	205g	159g	
Note							

Cassette Sprocket

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.		CS-7900	CS-7900	CS-7900	CS-7900	CS-7900	CS-7900
Type		HG	HG	HG	HG	HG	HG
Speeds		10	10	10	10	10	10
Combination	11	-	-	-	-	-	-
	10	23	25	27	28	23	25
	9	21	23	24	24	21	23
	8	19	21	21	21	19	21
	7	17	19	19	19	18	19
	6	16	17	17	17	17	17
	5	15	15	15	15	16	16
	4	14	14	14	14	15	15
	3	13	13	13	13	14	14
	2	12	12	12	12	13	13
1	11	11	11	11	12	12	
Group		-	-	-	-	-	-
Recommended chain		HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed
Spider arm (pcs)		2	2	2	2	2	2
Aluminum lock ring		X	X	X	X	X	X
Average weight		163g	180g	184g	187g	181g	184g
Note							

Series		DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		CS-7900	CS-6800	CS-6800	CS-6800	CS-6800	CS-6800
Type		HG	HG-EV	HG-EV	HG-EV	HG-EV	HG-EV
Speeds		10	11	11	11	11	11
Combination	11	-	23	25	25	28	32
	10	27	21	23	23	25	28
	9	24	19	21	21	23	25
	8	21	18	19	19	21	22
	7	19	17	17	18	19	20
	6	17	16	16	17	17	18
	5	16	15	15	16	15	16
	4	15	14	14	15	14	14
	3	14	13	13	14	13	13
	2	13	12	12	13	12	12
1	12	11	11	12	11	11	
Group		-	-	-	-	-	-
Recommended chain		HG 10-speed	HG-EV 11-speed	HG-EV 11-speed	HG-EV 11-speed	HG-EV 11-speed	HG-EV 11-speed
Spider arm (pcs)		2	2	2	2	2	2
Aluminum lock ring		X	X	X	X	X	X
Average weight		189g	212g				
Note							

Cassette Sprocket

Series		ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		CS-6700	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	11	-	-	-	-	-	-
	10	23	23	25	25	28	30
	9	21	21	23	23	24	27
	8	19	19	21	21	21	24
	7	17	18	19	19	19	21
	6	16	17	17	17	17	19
	5	15	16	16	15	15	17
	4	14	15	15	14	14	15
	3	13	14	14	13	13	14
	2	12	13	13	12	12	13
1	11	12	12	11	11	12	
Group		-	-	-	-	-	-
Recommended chain		HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed
Spider arm (pcs)		1	1	1	1	1	1
Aluminum lock ring		X	X	X	X	X	X
Average weight		209g	225g	238g	229g	242g	-
Note							

Series		105	105	105	105	Tiagra	Tiagra
Model no.		CS-5700	CS-5700	CS-5700	CS-5700	CS-4600	CS-4600
Type		HG	HG	HG	HG	HG	HG
Speeds		10	10	10	10	10	10
Combination	11	-	-	-	-	-	-
	10	25	25	27	28	25	28
	9	23	23	24	24	23	25
	8	21	21	21	21	21	23
	7	19	19	19	19	19	21
	6	17	17	17	17	17	19
	5	15	16	16	15	15	17
	4	14	15	15	14	14	15
	3	13	14	14	13	13	14
	2	12	13	13	12	12	13
1	11	12	12	11	11	12	
Group		-	-	-	-	-	-
Recommended chain		HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed
Spider arm (pcs)		1	1	1	1	-	-
Aluminum lock ring		-	-	-	-	-	-
Average weight		245g	250g	258g	255g	-	310g
Note							

Cassette Sprocket

Series	Tiagra	SORA	SORA	SORA	SORA	SORA
Model no.	CS-4600	CS-HG50-9	CS-HG50-9	CS-HG50-9	CS-HG50-9	CS-HG50-9
Type	HG	HG	HG	HG	HG	HG
Speeds	10	9	9	9	9	9
Combination	11	-	-	-	-	-
	10	30	-	-	-	-
	9	27	25	23	25	27
	8	24	23	21	23	24
	7	21	21	19	21	21
	6	19	19	17	19	19
	5	17	17	16	17	17
	4	15	15	15	15	15
	3	14	13	14	14	14
	2	13	12	13	13	13
1	12	11	12	12	12	
Group	-	-	-	-	-	-
Recommended chain	HG 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Spider arm (pcs)	-	-	-	-	-	-
Aluminum lock ring	-	-	-	-	-	-
Average weight	329g	-	-	-	-	-
Note						

Series	SORA	SORA	SORA	Claris	Claris	Claris
Model no.	CS-HG50-9	CS-HG50-9	CS-HG50-9	CS-HG50-8	CS-HG50-8	CS-HG50-8
Type	HG	HG	HG	HG	HG	HG
Speeds	9	9	9	8	8	8
Combination	11	-	-	-	-	-
	10	-	-	-	-	-
	9	25	30	32	-	-
	8	23	26	28	28	30
	7	21	23	24	24	26
	6	19	20	21	21	23
	5	18	18	18	19	20
	4	17	16	16	17	17
	3	16	14	14	15	15
	2	15	12	12	13	13
1	14	11	11	11	11	
Group	-	bQ	ar	bf	an	aw
Recommended chain	HG 9-speed	HG 9-speed	HG 9-speed	CN-HG50	CN-HG50	CN-HG50
Spider arm (pcs)	-	-	-	-	-	-
Aluminum lock ring	-	-	-	-	-	-
Average weight	-	-	-	-	-	-
Note						

Cassette Sprocket

Series	Clariss	Clariss	Clariss	Clariss	Clariss	Tourney A070
Model no.	CS-HG50-8	CS-HG50-8	CS-HG50-8	CS-HG50-8	CS-HG50-8	CS-HG41-7
Type	HG	HG	HG	HG	HG	HG
Speeds	8	8	8	8	8	7
Combination	11	-	-	-	-	-
	10	-	-	-	-	-
	9	-	-	-	-	-
	8	21	23	25	23	26
	7	19	21	23	21	23
	6	17	19	21	19	21
	5	16	17	19	17	19
	4	15	15	17	16	17
	3	14	14	15	15	15
	2	13	13	13	14	14
1	12	12	12	13	13	
Group	S	U	W	T	V	ac
Recommended chain	HG	HG	HG	HG	HG	IG/HG
Spider arm (pcs)	-	-	-	-	-	-
Aluminum lock ring	-	-	-	-	-	-
Average weight	-	-	-	-	-	-
Note						

Series	Tourney A070	
Model no.	CS-HG20-7	
Type	HG	
Speeds	7	
Combination	11	-
	10	-
	9	-
	8	-
	7	28
	6	24
	5	21
	4	18
	3	16
	2	14
1	12	
Group	E	
Recommended chain	IG/HG	
Spider arm (pcs)	-	
Aluminum lock ring	-	
Average weight	-	
Note		

Chain

Series	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	105
Model no.	CN-9000	CN-7901	CN-7801	CN-6800	CN-6701	CN-6600	CN-5701
Type	HG-EV 11-speed	HG 10-speed	HG 10-speed	HG-EV 11-speed	HG 10-speed	HG 10-speed	HG 10-speed
Pin link plate	SIL-TEC	Zinc-Alloy Plated	Zinc-Alloy Plated	SIL-TEC	Zinc-Alloy Plated	Zinc-Alloy Plated	Grey
Roller link plate	SIL-TEC	Zinc-Alloy Plated	Zinc-Alloy Plated	SIL-TEC	Grey	Grey	Grey
Chromizing treatment link pin	X	X	X	X	X	X	X
Hollow pin	X	X	-	-	-	-	-
Average weight	243g(114links)	255g(114links)	275g(114links)	253g(114links)	267g(114links)	280g(116links)	267g(114links)
Note							

Series	105	Tiagra	SORA	Claris	Claris / Tourney A070	Tourney A070 /A050
Model no.	CN-5600	CN-4601	CN-HG53	CN-HG50	CN-HG40	CN-UG51
Type	HG 10-speed	HG 10-speed	HG 9-speed	HG 8-speed	HG	UG
Pin link plate	Grey	Grey	Grey	Brown	Grey	Grey
Roller link plate	Grey	Brown	Brown	Brown	Brown	Brown
Chromizing treatment link pin	X	X	X	X	-	-
Hollow pin	-	-	-	-	-	-
Average weight	280g(116links)	-	-	-	-	-
Note						

Freehub Standard

Series	DURA-ACE	ULTEGRA	105	Non-Series	Tiagra	SORA
Model no.	FH-9000	FH-6800	FH-5700-S/L	FH-R505	FH-4600	FH-3500
Color	1	Standard	Standard	Silver	Silver	Black
	2	-	-	Black	Black	-
Spoke hole	24H	X	-	-	-	-
	28H	X	-	-	-	-
	32H	X	X	X	X	X
	36H	X	X	X	X	X
	Aero spoke	24/28H	-	-	-	-
P.C.D. (mm)	44 (Non Drive side) / 45 (Drive side)	44 (Left side) / 45 (Right side)	45	45	45	45
Freehub body	Speeds	11/10*	11/10*	8/9/10	8/9/10	8/9/10
	11T Compatible	X	X	X	X	X
O.L.D. (mm)	130	130	130	135	130	130
Flange distance (mm)	56.9 **	56.9	57.9	57.4	57.9	57.9
Dish (mm)	9.75 **	9.7	8.4	6.7	8.4	8.6
Axle	QR skewer length (mm)	163/168	163/168	163	168	163/168
	Length (mm)	141	141	141	146	141
Digital adjustment system	X	X	-	-	-	-
Seal	Labyrinth and Contact	Labyrinth and Contact	Labyrinth and Contact	Labyrinth and Contact	Labyrinth and Contact	Single Contact
CBN (Cubic Boron Nitride)	Cone races	X***	X	X	X	-
	Cup races	-	-	-	-	-
Average weight	247g	330g	353g	-	-	-
Note	* Can be used for 10-speed with an additional spacer. ** Flange Distance:56.5, Dish:9.95(only for 28H) ***Super Finishing.		* Can be used for 10-speed with an additional spacer.	For Disc Brake/ Center lock mount		QR Lever Housing Aluminum

Freehub

Standard

Series		Claris	Tourney A070
Model no.		FH-2400	FH-RM30-7-QR
Color	1	Standard	Silver
	2	Black	-
Spoke hole	24H	-	-
	28H	-	-
	32H	X	X
	36H	X	-
	Aero spoke	-	-
	P.C.D. (mm)	45	45
Freehub body	Speeds	8/9-speed	7
	11T Compatible	X	X
O.L.D. (mm)		130	130
Flange distance (mm)		57.9	59.2
Dish (mm)		8.6	5.5
Axle	QR skewer length (mm)	163 or 168	161
	Length (mm)	141	141
Digital adjustment system		-	-
Seal		Single Contact	-
CBN (Cubic Boron Nitride)	Cone races	-	-
	Cup races	-	-
Average weight			-
Note		QR Lever Housing Steel	

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Freehub

Disc Brake

Series		Non-Series	
Model no.		FH-CX75	
Spec		-	
Color option	1	6800 Standard	
	2	-	
Spoke hole	20H	-	
	24H	-	
	28H	X	
	32H	-	
	36H	-	
	Aero spoke	X	
	Hole P.C.D. (mm)	44 (Left side) / 45 (Right side)	
Freehub body	Speeds	11/10*	
	Cassette	Road 11-speed and Road 10-speed	
	Low sprocket	Max 32T	
	11T compatible	X	
	Quick engagement	-	
	Spoke protector	-	
Axle	QR	X	
	QR skewer length (mm)	168 / 173	
	Length (mm)	146	
O.L.D. (mm)		135	
Flange Distance (mm)		55.65	
Dish (mm)		7.5	
Digital Adjustment System		-	
Seal		Labyrinth and Contact	
Hub shell	Rotor mount	Center lock	X
		6-Bolt	-
		Outer serration lock ring	-
CBN (Cubic Boron Nitride)	Cone races	X	
	Cup races	-	
Grease sleeve		X	
Radial lacing		-	
Average weight		325g	
Note		* Can be used for 10-speed with an additional spacer. For Disc Brake/ Center lock mount	

Front Hub

Standard

Series		DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	105	Non-Series
Model no.		HB-9000	HB-7710	HB-7600	HB-6800	HB-5700-S/L	HB-R505
Color	1	Standard	Silver	Silver	Standard	Silver	Silver
	2	-	-	-	-	Black	Black
Spoke hole	18H	-	-	-	-	-	-
	24H	X	-	-	-	-	-
	28H	X	X	X	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
	Aero spoke	18/24H	-	-	-	-	-
P.C.D. (mm)		38	38 (Front) 44 (Rear)	67	40	38	44
O.L.D. (mm)		100	100 (Front) 120 (Rear)	100 (Front) 120 (Rear)	100	100	100
Flange Distance (mm)		74.0	F:74.0 *R(Single Thread):72.5 (Double Thread):67.0	F:72.3 *R(Single Thread):75.5 (Double Thread):65.0	71.6	71.6	60.2
Axle	QR skewer length (mm)	133	-	-	133	133	133
	Length (mm)	108	142(M9) (Front) 164(M10) (Rear)	142(M9) (Front) 164(M10) (Rear)	108	108(M10)	108(M10)
Digital adjustment system		X	-	-	X	-	-
Seal		Labyrinth and Contact	Dust Cap	Dust Cap	Labyrinth and Contact	Labyrinth and Contact	Labyrinth and Contact
CBN (Cubic Boron Nitride)	Cone races	X*	X	X	X	X	X
	Cup races	-	X	X	-	-	-
Radial lacing		X	-	-	X	X	X
Average weight		120g	298g (rear w / lock ring) 203g (front)	313g (rear LF w / lock ring) 241g (front LF)	158g	158g	-
Note		*Super Finishing	For Track *Dishing Distance R(Single Thread):2.75mm (Double Thread):0				For Disc Brake/ Center lock mount

Series		Tiagra	SORA	Claris	Tourney A070
Model no.		HB-4600	HB-3500	HB-2400	HB-RM40
Color	1	Silver	Black	Standard	Black
	2	-	-	Black	Silver
Spoke hole	18H	-	-	-	-
	24H	-	-	-	-
	28H	-	-	-	-
	32H	X	X	X	X
	36H	X	X	X	X
	Aero spoke	-	-	-	-
P.C.D. (mm)		38	38	38	38
O.L.D. (mm)		100	100	100	100
Flange Distance (mm)		71.6	71.6	71.6	71.6
Axle	QR skewer length (mm)	133	133	129/133	129/133
	Length (mm)	108(M9)	108(M9)	108(M9)	108(M9)
Digital adjustment system		-	-	-	-
Seal		Labyrinth and Contact	Single Contact	Single Contact	-
CBN (Cubic Boron Nitride)	Cone races	X	-	-	-
	Cup races	-	-	-	-
Radial lacing		X	X	X	-
Average weight		-	-		
Note			QR Lever Housing Aluminum	QR Lever Housing Steel	

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Front Hub

Disc Brake

Series		Non-Series	
Model no.		HB-CX75	
Spec		-	
Color option	1	6800 Standard	
	2	-	
Spoke hole	18H	-	
	24H	-	
	28H	X	
	32H	-	
	36H	-	
	Aero spoke	X	
	Hole P.C.D. (mm)	44	
Axle	O.L.D. (mm)	100	
	QR	X	
	QR skewer length (mm)	133	
	Axle length (mm)	108	
Flange distance (mm)		59.6	
Dish (mm)		6.5	
Digital adjustment system		-	
Seal		Labyrinth and Contact	
Hub shell	Rotor mount	Center lock	X
		6-Bolt	-
		Outer serration lock ring	-
CBN (Cubic Boron Nitride)	Cone races	X	
	Cup races	-	
Easy adjusting system		-	
Grease sleeve		X	
Radial lacing		-	
Average weight		166g	
Note		For Disc Brake/ Center lock mount 140mm Disc Rotor Compatible	

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
Rim type		Clincher	Clincher	Tubeless	Tubeless	Tubular	Tubular
Front / Rear		Front	Rear	Front	Rear	Front	Rear
Color	1	Standard	Standard	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	Sticker color option	-	-	-	-	-	-
Freehub body (*Note)	Speeds	-	10*/11	-	10*/11	-	10*/11
	11T compatible	-	X	-	X	-	X
	Maximum low gear	-	32T	-	32T	-	Max 32T
O.L.D. (mm)		100	130	100	130	100	130
Hub Axle	Length (mm)	108	141	108	141	108	141
Digital Adjustment System		X	-	-	X	X	X
Hub shell	Contact seal	X	X	X	X	X	X
	Center lock rotor mount	-	-	-	-	-	-
	Flange type	Flangeless	5 arms	Flangeless	5 arms	Flangeless	7 arms / Flangeless
	Color	Standard	Standard	Standard	Standard	Standard	Standard
QR lever	QR skewer length (mm)	133	163/168	133	163/168	133	163/168
	Color	Standard	Standard	Standard	Standard	Standard	Standard
Rim	Size	622x15C	622x15C	622x15C Tubeless	622x15C Tubeless	700C	700C
	D2 rim	-	-	-	-	-	-
	Offset rim	-	X	-	X	-	X
	Welded joint	X	X	X	X	-	-
	Height (mm)	21	23	21	23	24	24
	Width (mm)	20.8	20.8	20.8	20.8	20.8	20.8
	Brazed reinforcement	-	-	-	-	-	-
	Requires rim tape	X	X	-	-	-	-
Spokes	No. of spokes	16	20	16	20	16	21
	Optbal (2:1)	-	-	-	-	-	X
	Shape	Butted(2.0-1.5-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.5-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.5-2.0)/ Bladed	Butted(2.0-1.5-2.0)/ Bladed Butted(2.0-1.8-2.0)/ Bladed
	Color	Black	Black	Black	Black	Black	Black
Nipple	Color	Black	Black	Black	Black	Black	Black
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"
Option	Spoke protector	-	CP-WH23/CP-W020	-	CP-WH23/CP-W020	-	CP-W184/CP-W024
	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
	Reflector AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	Reflector DEN	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 **		578g	809g	634g	835g	483g	668g
Note		** Weight does not include quick release or valve stem	*The adapter is needed to use 10-speed CS ** Weight does not include quick release or valve stem	** Weight does not include quick release or valve stem	*The adapter is needed to use 10-speed CS ** Weight does not include quick release or valve stem	** Weight does not include quick release or valve stem	*The adapter is needed to use 10-speed CS ** Weight does not include quick release or valve stem

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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
Rim type		Clincher	Clincher	Tubular	Tubular	Clincher	Clincher
Front / Rear		Front	Rear	Front	Rear	Front	Rear
Color	1	Standard	Standard	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	Sticker color option	-	-	-	-	-	-
Freehub body (*Note)	Speeds	-	10*/11	-	10*/11	-	10*/11
	11T compatible	-	X	-	X	-	X
	Maximum low gear	-	32T	-	32T	-	32T
O.L.D. (mm)		100	130	100	130	100	130
Hub Axle	Length (mm)	108	141	108	141	108	141
Digital Adjustment System		X	X	X	X	X	X
Hub shell	Contact seal	X	X	X	X	X	X
	Center lock rotor mount	-	-	-	-	-	-
	Flange type	Flangeless	7 arms / Flangeless	Flangeless	7 arms / Flangeless	Flangeless	7 arms / Flangeless
	Color	Standard	Standard	Standard	Standard	Standard	Standard
QR lever	QR skewer length (mm)	133	163/168	133	163/168	133	163/168
	Color	Standard	Standard	Standard	Standard	Standard	Standard
Rim	Size	622x15C	622x15C	700C	700C	622x17C	622-17C
	D2 rim	-	-	-	-	X	X
	Offset rim	-	-	-	X	-	-
	Welded joint	X	X	-	-	-	-
	Height (mm)	35	35	35	35	50	50
	Width (mm)	20.8	20.8	20.8	20.8	22.4	22.4
	Brazed reinforcement	-	-	-	-	-	-
	Requires rim tape	X	X	-	-	X	X
Spokes	No. of spokes	16	21	16	21	16	21
	Optbal (2:1)	-	X	-	X	-	X
	Shape	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed
	Color	Black	Black	Black	Black	Black	Black
Nipple	Color	Black	Black	Black	Black	Black	Black
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
Option	Spoke protector	-	CP-W184/CP-W024	-	CP-W184/CP-W024	-	CP-W184/CP-W024
	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
	Reflector AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	Reflector DEN	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 **		662g	826g	647g	715g	752g	920g
Note		** Weight does not include quick release or valve stem	*The adapter is needed to use 10-speed CS ** Weight does not include quick release or valve stem	** Weight does not include quick release or valve stem	*The adapter is needed to use 10-speed CS ** Weight does not include quick release or valve stem	** Weight does not include quick release or valve stem	*The adapter is needed to use 10-speed CS ** Weight does not include quick release or valve stem

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	WH-6800
Rim type		Tubular	Tubular	Tubular	Tubular	Tubeless	Tubeless
Front / Rear		Front	Rear	Front	Rear	Front	Rear
Color	1	Standard	Standard	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	Sticker color option	-	-	-	-	-	-
Freehub body (*Note)	Speeds	-	10*/11	-	10*/11	-	10/11
	11T compatible	-	X	-	X	-	X
	Maximum low gear	-	32T	-	32T	-	32T
O.L.D. (mm)		100	130	100	130	100	130
Hub Axle	Length (mm)	108	141	108	141	108	141
Digital Adjustment System		X	X	X	X	X	X
Hub shell	Contact seal	X	X	X	X	X	X
	Center lock rotor mount	-	-	-	-	-	-
	Flange type	Flangeless	7 arms / Flangeless	Flangeless	7 arms / Flangeless	Flangeless	5 arms
	Color	Standard	Standard	Standard	Standard	Standard	Standard
QR lever	QR skewer length (mm)	133	163/168	133	163/168	133	163/168
	Color	Standard	Standard	Standard	Standard	Standard	Standard
Rim	Size	700C	700C	700C	700C	622-15C	622-15C
	D2 rim	X	X	X	X	-	-
	Offset rim	-	-	-	-	-	X
	Welded joint	-	-	-	-	X	X
	Height (mm)	50	50	75	75	23	23
	Width (mm)	24	24	24	24	20.8	20.8
	Brazed reinforcement	-	-	-	-	X	X
	Requires rim tape	-	-	-	-	-	-
Spokes	No. of spokes	16	21	16	21	16	20
	Optbal (2:1)	-	X	-	X	-	-
	Shape	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.5-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed
	Color	Black	Black	Black	Black	Black	Black
Nipple	Color	Black	Black	Black	Black	Gray	Gray
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
Option	Spoke protector	-	CP-W184/CP-W024	-	CP-W184/CP-W024	-	CP-WH23/CP-W020
	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
	Reflector AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	Reflector DEN	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 **		641g	808g	678g	867g	700g	940g
Note		** Weight does not include quick release or valve stem	*The adapter is needed to use 10-speed CS ** Weight does not include quick release or valve stem	** Weight does not include quick release or valve stem	*The adapter is needed to use 10-speed CS ** Weight does not include quick release or valve stem	** Weight does not include quick release or valve stem	*The adapter is needed to use 10-speed CS ** Weight does not include quick release or valve stem

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HP

Wheel

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.		WH-RS81-C24	WH-RS81-C24	WH-RS81-C35	WH-RS81-C35	WH-RS81-C50	WH-RS81-C50
Rim type		Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
Front / Rear		Front	Rear	Front	Rear	Front	Rear
Color	1	Standard	Standard	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	Sticker color option	-	-	-	-	-	-
Freehub body (*Note)	Speeds	-	10/11	-	10/11	-	10/11
	11T compatible	-	Max 32T	-	Max 32T	-	Max 32T
	Maximum low gear	-	X	-	X	-	X
O.L.D. (mm)		100	130	100	130	100	130
Hub Axle	Length (mm)	108	141	108	141	108	141
Digital Adjustment System		X	X	X	X	X	X
Hub shell	Contact seal	X	X	X	X	X	X
	Center lock rotor mount	-	-	-	-	-	-
	Flange type	Flangeless	5 arms	Flangeless	7 arms / Flangeless	Flangeless	7 arms / Flangeless
	Color	Standard	Standard	Standard	Standard	Standard	Standard
QR lever	QR skewer length (mm)	133	163/168	133	163/168	133	163/168
	Color	Standard	Standard	Standard	Standard	Standard	Standard
Rim	Size	622-15C	622-15C	622-15C	622-15C	622-17C	622-17C
	D2 rim	-	-	-	-	X	X
	Offset rim	-	X	-	-	-	-
	Welded joint	-	-	X	X	-	-
	Height (mm)	21	23	35	35	50	50
	Width (mm)	20.8	20.8	20.8	20.8	22.4	22.4
	Brazed reinforcement	-	-	-	-	-	-
	Requires rim tape	X	X	X	X	X	X
Spokes	No. of spokes	16	20	16	21	16	21
	Optbal (2:1)	-	-	-	X	-	X
	Shape	Butted(2.0-1.5-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed
	Color	Black	Black	Black	Black	Black	Black
Nipple	Color	Black	Black	Black	Black	Black	Black
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
	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
Option	Spoke protector	-	CP-WH23/CP-W020	-	CP-W184/CP-W024	-	CP-W184/CP-W024
	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
	Reflector AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	Reflector DEN	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 **		615g	887g	709g	922g	841g	1067g
Note		** Weight does not include quick release or valve stem	*The adapter is needed to use 10-speed CS ** Weight does not include quick release or valve stem	** Weight does not include quick release or valve stem	*The adapter is needed to use 10-speed CS ** Weight does not include quick release or valve stem	** Weight does not include quick release or valve stem	*The adapter is needed to use 10-speed CS ** Weight does not include quick release or valve stem

Wheel

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	
Model no.	WH-RS61-TL-F	WH-RS61-TL-R	WH-RS31	WH-RS31	WH-RS21-CL-F	WH-RS21-CL-R	
Rim type	Tubeless	Tubeless	Clincher	Clincher	Clincher	Clincher	
Front / Rear	Front	Rear	Front	Rear	Front	Rear	
Color	1	Black	Black	Black	Black	Black	
	2	-	-	White	White	Silver	
	3	-	-	-	-	White	
	Sticker color option	-	-	Red/Blue/Orange/ Green/ Sky Blue/Hi tech Gray	Red/Blue/Orange/ Green/ Sky Blue/Hi tech Gray	X	X
Freehub body (*Note)	Speeds	-	10*/11	-	10/11	-	10*/11
	11T compatible	-	X	-	X	-	X
	Maximum low gear	-	32T	-	Max 32T	-	32T
O.L.D. (mm)	100	130	100	130	100	130	
Hub Axle	Length (mm)	108	141	108	141	108	141
Digital Adjustment System	-	-	-	-	-	-	
Hub shell	Contact seal	X	X	X	X	X	X
	Center lock rotor mount	-	-	-	-	-	-
	Flange type	Flangeless	5 arms	Flangeless	5 arms	Flangeless	5 arms
	Color	Black	Black	Black	Black	Black	Black
QR lever	QR skewer length (mm)	133	163/168	133	163/168	133	163/168
	Color	Black	Black	Black	Black	Black	Black
Rim	Size	622x15C Tubeless	622x15C Tubeless	622-15C	622-15C	622x15C	622x15C
	D2 rim	-	-	-	-	-	-
	Offset rim	-	X	-	X	-	X
	Welded joint	X	X	-	-	-	-
	Height (mm)	21	24	30	30	21	24
	Width (mm)	20.8	20.8	20.8	20.8	20.8	20.8
	Brazed reinforcement	-	-	-	-	-	-
	Requires rim tape	-	-	X	X	X	X
Spokes	No. of spokes	16	20	16	20	16	20
	Optbal (2:1)	-	-	-	-	-	-
	Shape	Butted(2.0-1.5-2.0)/ Bladed	RH:Butted(2.0-1.8-2.0)/ Bladed LH:Butted(2.0-1.5-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed	Butted(2.0-1.8-2.0)/ Bladed
	Color	Black	Black	Black	Black	Black	Black
Nipple	Color	Black	Black	Black	Black	Silver	Silver
Tire	Type	Tubeless	Tubeless	-	-	Clincher	Clincher
	Recommended size	23-622 - 28-622	23-622 - 28-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622
Option	Spoke protector	-	CP-WH23/CP-W020	-	CP-WH23/CP-W020	-	CP-WH23/CP-W020
	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
	Reflector AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	Reflector DEN	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 **		-	-	838g	1121g	-	-
Note		-	*The adapter is needed to use 10-speed CS	** Weight does not include quick release or valve stem	*The adapter is needed to use 10-speed CS ** Weight does not include quick release or valve stem	** Weight does not include quick release or valve stem	*The adapter is needed to use 10-speed CS ** Weight does not include quick release or valve stem

Wheel

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	
Model no.	WH-RS11	WH-RS11	WH-R501-30-F	WH-R501-30-R	WH-R501-A-F	WH-R501-A-R	
Rim type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher	
Front / Rear	Front	Rear	Front	Rear	Front	Rear	
Color	1	Black	Black	Black	Black		
	2	Silver	Silver	-	Silver		
	3	White	White	-	-		
	Sticker color option	Red/Blue/Orange/ Green/ Sky Blue/Hi tech Gray	Red/Blue/Orange/ Green/ Sky Blue/Hi tech Gray	X	X		
Freehub body (*Note)	Speeds	-	10/11	-	8/9/10	-	
	11T compatible	-	X	-	X	-	
	Maximum low gear	-	32T	-	30T		
O.L.D. (mm)	100	130	100	130	100	130	
Hub Axle	Length (mm)	108	141	108	141	108	141
Digital Adjustment System	-	-	-	-	-	-	
Hub shell	Contact seal	X	X	Labyrinth and Contact	Labyrinth and Contact	Labyrinth and Contact	Labyrinth and Contact
	Center lock rotor mount	-	-	-	-	-	-
	Flange type	Flangeless	5 arms	Round	Round	Round	Round
	Color	Black	Black	Black	Black	Black	Black
QR lever	QR skewer length (mm)	133	163/168	133	163/168	133	163/168
	Color	Black	Black	Black	Black	Black	Black
Rim	Size	622-15C	622-15C	622 X 15C (700C)	622 X 15C (700C)	622 X 15C (700C)	622 X 15C (700C)
	D2 rim	-	-	-	-	-	-
	Offset rim	-	X	-	-	-	-
	Welded joint	-	-	-	-	-	-
	Height (mm)	24	24	30	30	24	24
	Width (mm)	20.8	20.8	20.8	20.8	20.8	20.8
	Brazed reinforcement	-	-	-	-	-	-
	Requires rim tape	-	-	X	X	X	X
Spokes	No. of spokes	16	20	20	24	20	24
	Optbal (2:1)	-	-	-	-	-	-
	Shape	Straight(2.0)/Bladed	Straight(2.0)/Bladed	J-bent(2.0)/Bladed	J-bent(2.0)/Bladed	J-bent(2.0)/Bladed	J-bent(2.0)/Bladed
	Color	Black	Black	Black	Black	Black	Black
Nipple	Color	TBD(Black)	TBD(Black)	Silver	Silver	Silver	Silver
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
Option	Spoke protector	-	CP-WH23/CP-W020	-	CP-FH02 (21-25T) CP-FH35 (27T)	-	CP-FH02 (21-25T) CP-FH35 (27T)
	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
	Reflector AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	Reflector DEN	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 **	795g	1085g	822g	1078g	822g	1078g	
Note	** Weight does not include quick release or valve stem	*The adapter is needed to use 10-speed CS ** Weight does not include quick release or valve stem	** Weight does not include quick release or rim tape	** Weight does not include quick release or rim tape	** Weight does not include quick release or rim tape New Seal system	** Weight does not include quick release or rim tape New Seal system	

Wheel

Series	Non-Series	Non-Series	Non-series	Non-series	Non-Series	Non-Series	
Model no.	WH-R501-F	WH-R501-R	WH-RX31	WH-RX31	WH-RX05	WH-RX05	
Rim type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher	
Front / Rear	Front	Rear	Front	Rear	Front	Rear	
Color	1		Black	Black	Black	Black	
	2		-	-	White	White	
	3		-	-	-	-	
	Sticker color option			Standard Red (5sets box only) Hi tech Gray (5sets box only)	Standard Red (5sets box only) Hi tech Gray (5sets box only)	Red/Gray (mono tone)	Red/Gray (mono tone)
Freehub body (*Note)	Speeds	-	8/9/10	-	11-speed (10s compatible)	-	8/9/10
	11T compatible	-	X	-	x	-	X
	Maximum low gear			-	32T	-	32T
O.L.D. (mm)	100	130	100	135	100	135	
Hub Axle	Length (mm)	108	141	108	146	108	146
Digital Adjustment System		-	-	-	-	-	-
Hub shell	Contact seal	Labyrinth and Contact	Labyrinth and Contact	x	x	X	X
	Center lock rotor mount	-	-	x	x	X	X
	Flange type	Round	Round	6 arms	6 arms	Round	Round
	Color	Black	Black	Black	Black	Black	Black
QR lever	QR skewer length (mm)	133	163/168	133	168/173	133	168/173
	Color	Black	Black	Black	Black	Black	Black
Rim	Size	622 X 15C (700C)	622 X 15C (700C)	622-17C	622-17C	622-17C	622-17C
	D2 rim	-	-	-	-	-	-
	Offset rim	-	-	-	-	-	-
	Welded joint	-	-	-	-	-	-
	Height (mm)	24	24	24	24	24	24
	Width (mm)	20.8	20.8	22.4	22.4	22.4	22.4
	Brazed reinforcement	-	-	-	-	-	-
	Requires rim tape	X	X	X	X	X	X
Spokes	No. of spokes	20	24	24	24	28	28
	Optbal (2:1)	-	-	-	-	-	-
	Shape	J-bent(2.0)/Round	J-bent(2.0)/Round	Butted Bladed	Butted Bladed	J-bent(2.0)/Bladed	J-bent(2.0)/Bladed
	Color	Black	Black	Black	Black	Black	Black
Nipple	Color	Silver	Silver	Black	Black	Silver	Silver
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size	23-622 - 32-622	23-622 - 32-622	(622) 25C-38C	(622) 25C-38C	25-622 - 38-622	25-622 - 38-622
Option	Spoke protector	-	CP-FH02 (21-25T) CP-FH35 (27T)	-	Need to prepare (Low Sprocket 25T-32T)	-	Need to prepare
	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
	Reflector AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	Reflector DEN	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 **	822g	1078g	912g	1096g	945g	1130g	
Note	** Weight does not include quick release or rim tape New Seal system	** Weight does not include quick release or rim tape New Seal system	** Weight does not include quick release or valve stem	** Weight does not include quick release or valve stem	** Weight does not include quick release or rim tape New Seal system	** Weight does not include quick release or rim tape New Seal system	

Pedal

SPD-SL

Series	DURA-ACE	ULTEGRA	105	Non-Series	Non-Series	Non-Series
Model no.	PD-9000	PD-6800	PD-5700-C	PD-R550	PD-R540-LA	PD-R540
Color 1	Carbon	Carbon	Carbon	Black	Black	Silver
Color 2	-	-	-	Grey	White	Black
Color 3	-	-	-	-	-	White
Type	Road	Road	Road	Road	Road	Road
SPD-SL	Single Sided	Single Sided	Single Sided	Single Sided	Single Sided	Single Sided
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
Wide platform	X	X	X	X	-	-
Road clearance	35°	32°	32°	32°	34°	34°
Average weight (pair)	248g				330g	330g
Note	4mm longer axle available			Wider spring tension range	Lighter spring tension	

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
Average weight	101g
Note	

COMFORT

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Nexus	122	Nexus
Capreo	135	Capreo

ALFINE

Internal Geared Hub

Series		ALFINE			ALFINE		
Function name		Inter-11			Inter-8		
Model no.		SG-S700			SG-S501		
Color	1	Silver			Silver		
	2	Black			Black		
	3	-			-		
	4	-			-		
Speeds		11			8		
Top-Normal		X			-		
Silent clutch		X			X		
Gear change support mechanism		X			X		
Shifting power modulator		X			X		
Driving efficiency		HIGH			HIGH		
w/ Left hand dust cap		-			-		
Brake	Type	Center Lock Type			Center Lock Type		
	Model	BR-S700			BR-S700		
O.L.D. (mm)		135			135		
Axle length (mm)		187			187		
Gear ratio	Total	409%			307%		
	1	0.527			0.527		
	2	0.681			0.644		
	3	0.770			0.748		
	4	0.878			0.851		
	5	0.995			1		
	6	1.134			1.223		
	7	1.292			1.419		
	8	1.462			1.615		
	9	1.667			-		
	10	1.888			-		
11	2.153			-			
Spoke hole	36H	X			X		
	32H	X			X		
	28H	-			-		
	Others	-			-		
Spoke size		#13 / #14			#13 / #14		
Flange distance (mm)		57.3			57.3		
Spoke hole P.C.D. (mm)		92.6			92.6		
Flange diameter (mm)		104.3			104.3		
Flange width (mm)	Right	3.2			3.2		
	Left	3.2			3.2		
Dishing distance (mm)		3.15			3.15		
Combination with chain tensioner	CT-S500 use	X	-	-	X	-	-
	w/o tensioner (CT-S510 use)	-	X	X	-	X	X
Sprocket assembly direction	Inward assembly	X	X	-	X	X	-
	Outward assembly	-	-	X	-	-	X
Recommended sprocket	Model no.	CS-S500	SM-GEAR	SM-GEAR	CS-S500	SM-GEAR	SM-GEAR
	Thickness (mm)	2.0	2.3	2.3	2.0	2.3	2.3
SM-GEAR: Sprocket teeth	14T	-	-	-	-	-	-
	15T	-	-	-	-	-	-
	16T	-	-	-	-	-	X
	17T	-	-	-	-	-	-
	18T	-	-	X	-	X	X
	19T	-	-	X	-	X	X
	20T	-	X	X	-	X	X
	21T	-	X	X	-	X	X
	22T	-	X	X	-	X	X
23T	-	X	X	-	X	X	
CS-S500: Sprocket teeth	18T	X	-	-	X	-	-
	20T	X	-	-	X	-	-
Recommended chain type	Super Narrow HG for 9-speed	X (CN-HG73/53)	X (CN-HG73/53)	X (CN-HG73/53)	X (CN-HG73/53)	X (CN-HG73/53)	X (CN-HG73/53)
	HG 8-speed (1/2"x3/32")	-	X (CN-HG50)	X (CN-HG50)	-	X (CN-HG50)	X (CN-HG50)
	1/2"x1/8"	-	-	-	-	-	-
Chain line (mm)		41.8	41.8	47.7	41.8	41.8	47.7
Shifting lever / switch		SL-S700			SL-S503(SL-8S31, ST, SB-8S20)		
Cassette joint / motor unit		CJ-S700			CJ-8S20/CJ-8S40		
Average weight		1665g			1680g		
Note							

ALFINE

Chain Tensioner

Series		ALFINE	ALFINE	
Model no.		CT-S500	CT-S510	
Color	1	Silver	-	
	2	Black	-	
	3	-	Silver&Black	
Speeds		Single	Single	
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	
Average weight				
Note				

ALFINE

Cassette Sprocket

Series		ALFINE
Model no.		CS-S500
Chain drop protection	Inward	-
	Outward	X
Gear teeth	14T	-
	16T	-
	17T	-
	18T	X (w/ and w/o guard)
	19T	-
	20T	X (w/ and w/o guard)
	21T	-
	22T	-
	23T	-
Gear thickness (mm)		2.0
Recommended chain type	Super Narrow HG for 9-speed	X (CN-HG73/53)
	HG 8-speed (1/2"x3/32")	-
	1/2"x1/8"	-
Average weight		
Note		

ALFINE

Shift Lever

Series		ALFINE	ALFINE
Model no.		SL-S700	SL-S503
Color	1	Silver	Silver
	2	Black	Black
	3	-	-
	4	-	-
Lever type		Rapidfire Plus	Rapidfire plus
Speeds		115(Inter-11 pitch)	85 (Inter-8 pitch)
Multi release		X	-
2-Way release		X	X
Instant release		X	-
Top-Normal		X	-
SL cable adjust		X	X
Optical gear display		Above handlebar	Above handlebar
Multi-Bearing construction		-	-
Max. number of shift		2	1
SL outer casing		SP41 sealed	SP41 sealed
LED positioning light		-	-
Brake lever integrated		-	-
Brake lever size		-	-
Left hand brake lever		-	-
Clamping diameter (mm)		22.2	22.2
SL compatible SG type		SG-S700	SG-S501, INTER-8
Average weight			
Note			

ALFINE

Brake (Disc Brake)

Series		ALFINE
Model no.		BR-S700
Color	1	Silver
	2	Black
	3	-
Brake type	Hydraulic disc brake	X
	Mechanical disc brake	-
	Hub roller brake	-
	V-BRAKE / Caliper brake	-
Recommended brake lever		BL-S700-B
Recommended brake rotor		SM-RT81
Oil		SHIMANO Mineral
Mount type		International standard Post-type
Piston	Opposed 4-piston	-
	Opposed 2-piston	X
	Different piston size	-
	1-piston	-
Pad	Standard	G01A Resin
	Option	F01A Resin
Hose		SM-BH90-SB
Average weight		
Note		

ALFINE

Brake Lever

Series		ALFINE
Model no.		BL-S700-B
Color	1	Silver
	2	Black
	3	-
Brake type	Hydraulic disc brake	X
	Mechanical disc brake	-
	Hub roller brake	-
	V-BRAKE / Caliper brake	-
Recommended brake caliper		BR-S700
Oil		SHIMANO Mineral
Master cylinder		X
Finger		3 finger
Brake hose		SM-BH90-SB
Average weight		
Note		I-spec B-type compatible

ALFINE

Front Chainwheel

Series		ALFINE			ALFINE		
Model no.		FC-S501			FC-S400		
Color	1	Silver			Silver		
	2	Black			Black		
	3	-			-		
Chain ring teeth	45T	X			X		
	42T	X			-		
	39T	X			X		
	38T	-			-		
	33T	-			-		
	Others	-			-		
Combination with chain tensioner	CT-S500 use	X	-	-	X	-	-
	w/o tensioner (CT-S510 use)	-	X	X	-	X	X
Sprocket assembly direction	Inward assembly	X	X	-	X	X	-
	Outward assembly	-	-	X	-	-	X
Chain guard type	Double	X	-	-	X	-	-
	Single	-	X	X	-	X	X
	NA	-	-	-	-	-	-
Chain line (mm)		49.2	42.7	42.7	49.2	42.7	42.7
Rear sprocket	CS-S500	X	X	-	X	X	-
	SM-GEAR	-	X	X	-	X	X
Recommended chain type	Super Narrow HG for 9-speed	X (CN-HG73/53)	X (CN-HG73/53)	X (CN-HG73/53)	X (CN-HG73/53)	X (CN-HG73/53)	X (CN-HG73/53)
	HG 8-speed (1/2"x3/32")	-	X (CN-HG50)	X (CN-HG50)	-	X (CN-HG50)	X (CN-HG50)
	1/2"x1/8"	-	-	-	-	-	-
Crank length (mm)		170			170		
2-piece solid crank construction		X			-		
OCTALINK technology		-			X		
Bottom bracket		Included SM-BB4600			BB-ES25		
BB axle length (mm)		-			126	118	118
Cover ring diameter (mm)		-			-		
Average weight							
Note							

ALFINE

Nexus

Capreo

Nexus

Internal Geared Hub

Series		Nexus			Nexus		
Function name		Inter-8			Inter-8		
Model no.		SG-8R31			SG-8R31-VS		
Color	1	Silver			Silver		
	2	Black			Black		
	3	White			-		
	4	-			-		
Speeds		8			8		
Top-Normal		-			-		
Silent clutch		X			X		
Gear change support mechanism		X			X		
Shifting power modulator		X			X		
Driving efficiency		Standard			Standard		
w/ Left hand dust cap		-			X		
Brake	Type	Inter-M			V-BRAKE		
	Model	BR-IM45/55/80/81-R			-		
O.L.D. (mm)		132			132		
Axle length (mm)		184			184		
Gear ratio	Total	307%			307%		
	1	0.527			0.527		
	2	0.644			0.644		
	3	0.748			0.748		
	4	0.851			0.851		
	5	1			1		
	6	1.223			1.223		
	7	1.419			1.419		
	8	1.615			1.615		
	9	-			-		
	10	-			-		
Spoke hole	36H	X			X		
	32H	X			X		
	28H	-			-		
	Others	40H			-		
Spoke size		#13 / #14			#13 / #14		
Flange distance (mm)		58.3			58.3		
Spoke hole P.C.D. (mm)		92.6			92.6		
Flange diameter (mm)		105.2			105.2		
Flange width (mm)	Right	3.2			3.2		
	Left	3.2			3.2		
Dishing distance (mm)		2.7			2.7		
Combination with chain tensioner	CT-S500 use	X	-	-	X	-	-
	w/o tensioner (CT-S510 use)	-	X	X	-	X	X
Sprocket assembly direction	Inward assembly	-	X	-	-	X	-
	Outward assembly	-	-	X	-	-	X
Recommended sprocket	Model no.	-	SM-GEAR	SM-GEAR	-	SM-GEAR	SM-GEAR
	Thickness(mm)	-	2.3	2.3	-	2.3	2.3
SM-GEAR: Sprocket teeth	14T	-	-	-	-	-	-
	15T	-	-	-	-	-	-
	16T	-	-(X) *	X	-	-(X) *	X
	17T	-	-	-	-	-	-
	18T	-	-(X) *	X	-	-(X) *	X
	19T	-	-(X) *	X	-	-(X) *	X
	20T	-	X	X	-	X	X
	21T	-	X	X	-	X	X
	22T	-	X	X	-	X	X
CS-S500: Sprocket teeth	18T	-	(X)	-	-	(X)	-
	20T	-	(X)	-	-	(X)	-
Recommended chain type	Super Narrow HG for 9-speed	-	-	-	-	-	-
	HG 8-speed (1/2"x3/32")	-	X (CN-HG50)	X (CN-HG50)	-	X (CN-HG50)	X (CN-HG50)
	1/2"x1/8"	-	X (CN-NX10/ CN-NX01)	X (CN-NX10/ CN-NX01)	-	X (CN-NX10/ CN-NX01)	X (CN-NX10/ CN-NX01)
Chain line (mm)		-	42.7	47.7	-	42.7	47.7
Shifting lever		SB-8S20/ST-8S20/ SL-8S31 (SL-S503)			SB-8S20/ST-8S20/ SL-8S31 (SL-S503)		
Cassette joint		CJ-8S20/CJ-8S40			CJ-8S20/CJ-8S40		
Average weight		1750g	1750g	1750g	1775g	1775g	1775g
Note		* There are two kinds of dust cap.			* There are two kinds of dust cap.		

Nexus

Internal Geared Hub

Series		Nexus			Nexus		
Function name		Inter-8			Inter-8		
Model no.		SG-8R36			SG-8R36-VS		
Color	1	Silver			Silver		
	2	-			Black		
	3	White			-		
	4	-			-		
Speeds		8			8		
Top-Normal		-			-		
Silent clutch		X			X		
Gear change support mechanism		X			X		
Shifting power modulator		X			X		
Driving efficiency		HIGH			HIGH		
w/ Left hand dust cap		-			X		
Brake	Type	Inter-M			V-BRAKE		
	Model	BR-IM45/55/80/81-R			-		
O.L.D. (mm)		132			132		
Axle length (mm)		184			184		
Gear ratio	Total	307%			307%		
	1	0.527			0.527		
	2	0.644			0.644		
	3	0.748			0.748		
	4	0.851			0.851		
	5	1			1		
	6	1.223			1.223		
	7	1.419			1.419		
	8	1.615			1.615		
	9	-			-		
	10	-			-		
Spoke hole	36H	X			X		
	32H	X			-		
	28H	-			-		
	Others	40H			-		
Spoke size		#13 / #14			#13 / #14		
Flange distance (mm)		58.3			58.3		
Spoke hole P.C.D. (mm)		92.6			92.6		
Flange diameter (mm)		105.2			105.2		
Flange width (mm)	Right	3.2			3.2		
	Left	3.2			3.2		
Dishing distance (mm)		2.7			2.7		
Combination with chain tensioner	CT-S500 use	X	-	-	X	-	-
	w/o tensioner (CT-S510 use)	-	X	X	-	X	X
Sprocket assembly direction	Inward assembly	-	X	-	-	X	-
	Outward assembly	-	-	X	-	-	X
Recommended sprocket	Model no.	-	SM-GEAR	SM-GEAR	-	SM-GEAR	SM-GEAR
	Thickness(mm)	-	2.3	2.3	-	2.3	2.3
SM-GEAR: Sprocket teeth	14T	-	-	-	-	-	-
	15T	-	-	-	-	-	-
	16T	-	-(X) *	X	-	-(X) *	X
	17T	-	-	-	-	-	-
	18T	-	-(X) *	X	-	-(X) *	X
	19T	-	-(X) *	X	-	-(X) *	X
	20T	-	X	X	-	X	X
	21T	-	X	X	-	X	X
	22T	-	X	X	-	X	X
CS-S500: Sprocket teeth	18T	-	(X)	-	-	(X)	-
	20T	-	(X)	-	-	(X)	-
Recommended chain type	Super Narrow HG for 9-speed	-	-	-	-	-	-
	HG 8-speed (1/2"x3/32")	-	X (CN-HG50)	X (CN-HG50)	-	X (CN-HG50)	X (CN-HG50)
	1/2"x1/8"	-	X (CN-NX10/ CN-NX01)	X (CN-NX10/ CN-NX01)	-	X (CN-NX10/ CN-NX01)	X (CN-NX10/ CN-NX01)
Chain line (mm)		-	42.7	47.7	-	42.7	47.7
Shifting lever		SB-8S20/ST-8S20/ SL-8S31 (SL-S503)			SB-8S20/ST-8S20/ SL-8S31 (SL-S503)		
Cassette joint		CJ-8S20/CJ-8S40			CJ-8S20/CJ-8S40		
Average weight		1630g	1630g	1630g	1655g	1655g	1655g
Note		* There are two kinds of dust cap.			* There are two kinds of dust cap.		

ALFINE

Nexus

Capreo

Nexus

Internal Geared Hub

Series		Nexus			Nexus		
Function name		Inter-8			Inter-7		
Model no.		SG-8C31			SG-7R50		
Color	1	Silver			Silver		
	2	Black			Black		
	3	White			-		
	4	-			-		
Speeds		8			7		
Top-Normal		-			-		
Silent clutch		X			-		
Gear change support mechanism		X			-		
Shifting power modulator		X			-		
Driving efficiency		Standard			Standard		
w/ Left hand dust cap		-			-		
Brake	Type	Coaster			Inter-M		
	Model	-			BR-IM45/55/80/81-R		
O.L.D. (mm)		132.3			130		
Axle length (mm)		184			182 / 201		
Gear ratio	Total	307%			244%		
	1	0.527			0.632		
	2	0.644			0.741		
	3	0.748			0.843		
	4	0.851			0.989		
	5	1			1.145		
	6	1.223			1.335		
	7	1.419			1.545		
	8	1.615			-		
	9	-			-		
	10	-			-		
Spoke hole	36H	X			X		
	32H	X			X		
	28H	-			-		
	Others	-			-		
Spoke size		#13 / #14			#13 / #14		
Flange distance (mm)		58.3			54.6		
Spoke hole P.C.D. (mm)		92.6			87		
Flange diameter (mm)		105.2			99.6		
Flange width (mm)	Right	3.2			3.2		
	Left	3.2			3.2		
Dishing distance (mm)		2.55			3.85		
Combination with chain tensioner	CT-S500 use	X	-	-	X	-	-
	w/o tensioner (CT-S510 use)	-	X	X	-	X	X
Sprocket assembly direction	Inward assembly	-	X	-	-	X	-
	Outward assembly	-	-	X	-	-	X
Recommended sprocket	Model no.	-	SM-GEAR	SM-GEAR	-	SM-GEAR	SM-GEAR
	Thickness(mm)	-	2.3	2.3	-	2.3	2.3
SM-GEAR: Sprocket teeth	14T	-	-	-	-	-	-
	15T	-	-	-	-	-	-
	16T	-	-(X) *	X	-	-	X
	17T	-	-	-	-	-	-
	18T	-	-(X) *	X	-	X	X
	19T	-	-(X) *	X	-	X	X
	20T	-	X	X	-	X	X
	21T	-	X	X	-	X	X
	22T	-	X	X	-	X	X
CS-S500: Sprocket teeth	18T	-	(X)	-	-	(X)	-
	20T	-	(X)	-	-	(X)	-
Recommended chain type	Super Narrow HG for 9-speed	-	-	-	-	-	-
	HG 8-speed (1/2"x3/32")	-	X (CN-HG50)	X (CN-HG50)	-	X (CN-HG50)	X (CN-HG50)
	1/2"x1/8"	-	X (CN-NX10/CN-NX01)	X (CN-NX10/CN-NX01)	-	X (CN-NX10/CN-NX01)	X (CN-NX10/CN-NX01)
Chain line (mm)		-	42.85	47.85	-	40.3	45.3
Shifting lever		SB-8S20/ST-8S20/ SL-8S31 (SL-S503)			SB-7S45, SL-7S31, SL-7S50		
Cassette joint		CJ-8S20/CJ-8S40			CJ-NX10/CJ-NX40		
Average weight		2040g	2040g	2040g	1465g	1465g	1465g
Note		* There are two kinds of dust cap.					

Nexus

Internal Geared Hub

Series		Nexus			Nexus		
Function name		Inter-7			Inter-5		
Model no.		SG-7C30			SG-5R30		
Color	1	Silver			Silver		
	2	-			-		
	3	-			-		
	4	-			-		
Speeds		7			5		
Top-Normal		-			-		
Silent clutch		-			X		
Gear change support mechanism		-			-		
Shifting power modulator		-			-		
Driving efficiency		Standard			Standard		
w/ Left hand dust cap		-			-		
Brake	Type	Coaster			Inter-M		
	Model	-			BR-IM45/55/80/81-R		
O.L.D. (mm)		127			132		
Axle length (mm)		175.5			210		
Gear ratio	Total	244%			206%		
	1	0.632			0.750		
	2	0.741			1.001		
	3	0.843			1.159		
	4	0.989			1.335		
	5	1.145			1.545		
	6	1.335			-		
	7	1.545			-		
	8	-			-		
	9	-			-		
	10	-			-		
Spoke hole	36H	X			X		
	32H	X			X		
	28H	-			-		
	Others	-			-		
Spoke size		#13 / #14			#13 / #14		
Flange distance (mm)		56.2			54.6		
Spoke hole P.C.D. (mm)		83.5			76		
Flange diameter (mm)		92.5			86		
Flange width (mm)	Right	2.7			2.3		
	Left	2.7			2.5		
Dishing distance (mm)		4.6			0.3		
Combination with chain tensioner	CT-S500 use	X	-	-	X	-	-
	w/o tensioner (CT-S510 use)	-	X	X	-	X	X
Sprocket assembly direction	Inward assembly	-	X	-	-	X	-
	Outward assembly	-	-	X	-	-	X
Recommended sprocket	Model no.	-	SM-GEAR	SM-GEAR	-	SM-GEAR	SM-GEAR
	Thickness(mm)	-	2.3	2.3	-	2.3	2.3
SM-GEAR: Sprocket teeth	14T	-	-	-	-	-	-
	15T	-	-	-	-	-	-
	16T	-	-	X	-	X	X
	17T	-	-	-	-	-	-
	18T	-	X	X	-	X	X
	19T	-	X	X	-	X	X
	20T	-	X	X	-	X	X
	21T	-	X	X	-	X	X
	22T	-	X	X	-	X	X
CS-S500: Sprocket teeth	18T	-	(X)	-	-	(X)	-
	20T	-	(X)	-	-	(X)	-
Recommended chain type	Super Narrow HG for 9-speed	-	-	-	-	-	-
	HG 8-speed (1/2"x3/32")	-	X (CN-HG50)	X (CN-HG50)	-	X (CN-HG50)	X (CN-HG50)
	1/2"x1/8"	-	X (CN-NX10/ CN-NX01)	X (CN-NX10/ CN-NX01)	-	X (CN-NX10/ CN-NX01)	X (CN-NX10/ CN-NX01)
Chain line (mm)		-	41.5	46.5	-	41.8	46.8
Shifting lever		SB-7S45, SL-7S31, SL-7S50			SL-5S50, SL-5S30, SL-5S30-A		
Cassette joint		CJ-NX10/CJ-NX40			CJ-8S20/CJ-8S40		
Average weight		1860g	1860g	1860g	1305g	1305g	1305g
Note		*Japanese market only					

ALFINE

Nexus

Capreo

Nexus

Internal Geared Hub

Series		Nexus			Nexus		
Function name		Inter-5			Inter-5		
Model no.		SG-5R30-VS			SG-5R35		
Color	1	Silver			Silver		
	2	-			Black		
	3	-			-		
	4	-			-		
Speeds		5			5		
Top-Normal		-			-		
Silent clutch		X			X		
Gear change support mechanism		-			-		
Shifting power modulator		-			-		
Driving efficiency		Standard			Standard		
w/ Left hand dust cap		X			-		
Brake	Type	V-BRAKE			Inter-M		
	Model	-			BR-IM45/55/80/81-R		
O.L.D. (mm)		132			132		
Axle length (mm)		210			184		
Gear ratio	Total	206%			206%		
	1	0.750			0.750		
	2	1.001			1.001		
	3	1.159			1.159		
	4	1.335			1.335		
	5	1.545			1.545		
	6	-			-		
	7	-			-		
	8	-			-		
	9	-			-		
	10	-			-		
Spoke hole	36H	X			X		
	32H	X			X		
	28H	-			-		
	Others	-			-		
Spoke size		#13 / #14			#13 / #14		
Flange distance (mm)		54.6			54.6		
Spoke hole P.C.D. (mm)		76			76		
Flange diameter (mm)		86			88.6		
Flange width (mm)	Right	2.3			3.4		
	Left	2.5			3.6		
Dishing distance (mm)		0.3			0.3		
Combination with chain tensioner	CT-5500 use	X	-	-	X	-	-
	w/o tensioner (CT-5510 use)	-	X	X	-	X	X
Sprocket assembly direction	Inward assembly	-	X	-	-	X	-
	Outward assembly	-	-	X	-	-	X
Recommended sprocket	Model no.	-	SM-GEAR	SM-GEAR	-	SM-GEAR	SM-GEAR
	Thickness(mm)	-	2.3	2.3	-	2.3	2.3
SM-GEAR: Sprocket teeth	14T	-	-	-	-	-	-
	15T	-	-	-	-	-	-
	16T	-	X	X	-	X	X
	17T	-	-	-	-	-	-
	18T	-	X	X	-	X	X
	19T	-	X	X	-	X	X
	20T	-	X	X	-	X	X
	21T	-	X	X	-	X	X
	22T	-	X	X	-	X	X
CS-5500: Sprocket teeth	18T	-	(X)	-	-	(X)	-
	20T	-	(X)	-	-	(X)	-
Recommended chain type	Super Narrow HG for 9-speed	-	-	-	-	-	-
	HG 8-speed (1/2"x3/32")	-	X (CN-HG50)	X (CN-HG50)	-	X (CN-HG50)	X (CN-HG50)
	1/2"x1/8"	-	X (CN-NX10/ CN-NX01)	X (CN-NX10/ CN-NX01)	-	X (CN-NX10/ CN-NX01)	X (CN-NX10/ CN-NX01)
Chain line (mm)		-	41.8	46.8	-	41.8	46.8
Shifting lever		SL-5550, SL-5530, SL-5530-A			SL-5550, SL-5530, SL-5530-A		
Cassette joint		CJ-8S20/CJ-8S40			CJ-8S20/CJ-8S40		
Average weight		1330g	1330g	1330g	1230g	1230g	1230g
Note		*Japanese market only			*Japanese market only		

Nexus

Internal Geared Hub

Series		Nexus			Nexus		
Function name		Inter-5			Inter-3		
Model no.		SG-5R35-VS			SG-3R40		
Color	1	Silver			Silver		
	2	Black			-		
	3	-			White		
	4	-			-		
Speeds		5			3		
Top-Normal		-			-		
Silent clutch		X			-		
Gear change support mechanism		-			X		
Shifting power modulator		-			X		
Driving efficiency		Standard			Standard		
w/ Left hand dust cap		X			-		
Brake	Type	V-BRAKE			Inter-M		
	Model	-			BR-IM45-R/ BR-IM31-R		
O.L.D. (mm)		132			120.4/120.4/126.8		
Axle length (mm)		184			170.3/189.4/176.8		
Gear ratio	Total	206%			186%		
	1	0.750			0.733		
	2	1.001			1.000		
	3	1.159			1.360		
	4	1.335			-		
	5	1.545			-		
	6	-			-		
	7	-			-		
	8	-			-		
	9	-			-		
	10	-			-		
Spoke hole	36H	X			X		
	32H	X			X		
	28H	-			X		
	Others	-			-		
Spoke size		#13 / #14			#13 / #14		
Flange distance (mm)		54.6			53		
Spoke hole P.C.D. (mm)		76			74		
Flange diameter (mm)		86			84		
Flange width (mm)	Right	2.3			2.3		
	Left	2.5			2.3		
Dishing distance (mm)		0.3			0.8(O.L.D. = 120.4mm)/ 2.5(O.L.D. = 126.8mm)		
Combination with chain tensioner	CT-5500 use	X	-	-	X	-	-
	w/o tensioner (CT-5510 use)	-	X	X	-	X	X
Sprocket assembly direction	Inward assembly	-	X	-	-	X	-
	Outward assembly	-	-	X	-	-	X
Recommended sprocket	Model no.	-	SM-GEAR	SM-GEAR	-	SM-GEAR	SM-GEAR
	Thickness(mm)	-	2.3	2.3	-	2.3	2.3
SM-GEAR: Sprocket teeth	14T	-	-	-	-	-	X
	15T	-	-	-	-	-	X
	16T	-	X	X	-	-	X
	17T	-	-	-	-	-	-
	18T	-	X	X	-	X	X
	19T	-	X	X	-	X	X
	20T	-	X	X	-	X	X
	21T	-	X	X	-	X	X
CS-5500: Sprocket teeth	18T	-	(X)	-	-	(X)	-
	20T	-	(X)	-	-	(X)	-
Recommended chain type	Super Narrow HG for 9-speed	-	-	-	-	-	-
	HG 8-speed (1/2"x3/32")	-	X (CN-HG50)	X (CN-HG50)	-	X (CN-HG50)	X (CN-HG50)
	1/2"x1/8"	-	X (CN-NX10/ CN-NX01)	X (CN-NX10/ CN-NX01)	-	X (CN-NX10/ CN-NX01)	X (CN-NX10/ CN-NX01)
Chain line (mm)		-	41.8	46.8	-	42.2(15T) 39.7 (18-23T)	42.2(15T) 44.7 (14, 16, 18-23T)
Shifting lever		SL-5550, SL-5530, SL-5530-A			SL-3535E, SL-3541E, SL-3542E		
Cassette joint		CJ-8520/CJ-8540			BELL CRANK 6		
Average weight		1255g	1255g	1255g	885g	885g	885g
Note		*Japanese market only					

ALFINE

Nexus

Capreo

Nexus

Internal Geared Hub

Series		Nexus			Nexus		
Function name		Inter-3			Inter-3		
Model no.		SG-3R75			SG-3C41		
Color	1	Silver			Silver		
	2	-			-		
	3	-			-		
	4	-			-		
Speeds		3			3		
Top-Normal		-			-		
Silent clutch		X			-		
Gear change support mechanism		-			X		
Shifting power modulator		-			X		
Driving efficiency		HIGH			Standard		
w/ Left hand dust cap		-			-		
Brake	Type	Inter-M			Coaster		
	Model	BR-IM45-R/ BR-IM31-R			-		
O.L.D. (mm)		122			120/120/127.4		
Axle length (mm)		174/193/198			168/178/175		
Gear ratio	Total	158%			186%		
	1	0.632			0.733		
	2	0.741			1.000		
	3	1.000			1.360		
	4	-			-		
	5	-			-		
	6	-			-		
	7	-			-		
	8	-			-		
	9	-			-		
	10	-			-		
Spoke hole	36H	X			X		
	32H	-			-		
	28H	-			X		
	Others	-			-		
Spoke size		#13 / #14			#13 / #14		
Flange distance (mm)		51.1			57.5		
Spoke hole P.C.D. (mm)		83.5			59		
Flange diameter (mm)		92.5			67.5		
Flange width (mm)	Right	2.3			2.3		
	Left	2.7			2.3		
Dishing distance (mm)		3.6			1.2(O.L.D. = 120mm)/ 2.7(O.L.D. = 127.4)		
Combination with chain tensioner	CT-S500 use	X	-	-	X	-	-
	w/o tensioner (CT-S510 use)	-	X	X	-	X	X
Sprocket assembly direction	Inward assembly	-	X	-	-	X	-
	Outward assembly	-	-	X	-	-	X
Recommended sprocket	Model no.	-	SM-GEAR	SM-GEAR	-	SM-GEAR	SM-GEAR
	Thickness(mm)	-	2.3	2.3	-	2.3	2.3
SM-GEAR: Sprocket teeth	14T	-	-	-	-	-	X
	15T	-	-	-	-	-	X
	16T	-	-	X	-	-	X
	17T	-	-	X	-	-	-
	18T	-	-	X	-	X	X
	19T	-	X	X	-	X	X
	20T	-	X	X	-	X	X
	21T	-	X	X	-	X	X
	22T	-	X	X	-	X	X
CS-S500: Sprocket teeth	18T	-	(X)	-	-	(X)	-
	20T	-	(X)	-	-	(X)	-
Recommended chain type	Super Narrow HG for 9-speed	-	-	-	-	-	-
	HG 8-speed (1/2"x3/32")	-	X (CN-HG50)	X (CN-HG50)	-	X (CN-HG50)	X (CN-HG50)
	1/2"x1/8"	-	X (CN-NX10/ CN-NX01)	X (CN-NX10/ CN-NX01)	-	X (CN-NX10/ CN-NX01)	X (CN-NX10/ CN-NX01)
Chain line (mm)		-	38.9	43.9	-	43.7(15T) 41.2 (18-23T)	43.7(15T) 46.2 (14, 16, 18-23T)
Shifting lever		SL-3S41E(for SG-3R75)			SL-3S35E, SL-3S41E, SL-3S42E		
Cassette joint		CJ-NX40(for SG-3R75)			BELL CRANK 6		
Average weight		1315g	1315g	1315g	1120g	1120g	1120g
Note							

Nexus

Internal Geared Hub

Series		Nexus		
Function name		Inter-3		
Model no.		SG-3D55		
Color	1	Silver		
	2	Black		
	3	-		
	4	-		
Speeds		3		
Top-Normal		-		
Silent clutch		X		
Gear change support mechanism		X		
Shifting power modulator		X		
Driving efficiency		Standard		
w/ Left hand dust cap		-		
Brake	Type	Disc Brake		
	Model	-		
O.L.D. (mm)		135		
Axle length (mm)		192.6		
Gear ratio	Total	186%		
	1	0.733		
	2	1.000		
	3	1.360		
	4	-		
	5	-		
	6	-		
	7	-		
	8	-		
	9	-		
	10	-		
Spoke hole	36H	X		
	32H	X		
	28H	-		
	Others	-		
Spoke size		#13 / #14		
Flange distance (mm)		53.5		
Spoke hole P.C.D. (mm)		65		
Flange diameter (mm)		77.6		
Flange width (mm)	Right	3.2		
	Left	3.2		
Dishing distance (mm)		1.67		
Combination with chain tensioner	CT-S500 use	X	-	-
	w/o tensioner (CT-S510 use)	-	X	X
Sprocket assembly direction	Inward assembly	X	X	-
	Outward assembly	-	-	X
Recommended sprocket	Model no.	CS-S500	SM-GEAR	SM-GEAR
	Thickness(mm)	2.0	2.3	2.3
SM-GEAR: Sprocket teeth	14T	-	-	-
	15T	-	-	X
	16T	-	-	X
	17T	-	-	-
	18T	-	X	X
	19T	-	X	X
	20T	-	X	X
	21T	-	X	X
	22T	-	X	X
CS-S500: Sprocket teeth	18T	X	(X)	-
	20T	X	(X)	-
Recommended chain type	Super Narrow HG for 9-speed	X (CN-HG73/53)	-	-
	HG 8-speed (1/2"x3/32")	-	X (CN-HG50)	X (CN-HG50)
	1/2"x1/8"	-	X (CN-NX10/ CN-NX01)	X (CN-NX10/ CN-NX01)
Chain line (mm)		42	44.5(15T) 42 (18-23T)	44.5(15T) 42 (16T)
Shifting lever		SL-3S35E, SL-3S41E, SL-3S42E		
Cassette joint		BELL CRANK 6		
Average weight		945g	945g	945g
Note				

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Nexus

Capreo

Nexus

Shift Lever

Series		Nexus	Nexus	Nexus	Nexus	Nexus	Nexus
Model no.		SL-8531	SB-8520	ST-8520	SL-7550	SL-7531	SB-7545
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	-	-	Black	Black	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
Lever type		Revo	Revo	Tap fire	Rapidfire Plus	Revo	Revo
Speeds		8	8	8	7	7	7
Multi release		-	-	-	-	-	-
2-Way release		-	-	-	X	-	-
Instant release		-	-	-	-	-	-
Top-Normal		-	-	-	-	-	-
SL cable adjust		X	X	X	X	X	X
Optical gear display		Window	Window	Dial	Window	Window	Dial
Multi-Bearing construction		-	-	-	-	-	-
Max Number of shift		7	7	1	1	6	6
SL outer casing		sealed	Sealed	Sealed	Sealed	Sealed	Sealed
LED positioning light		-	-	-	-	-	-
Brake lever Integrated		-	X	X	-	-	X
Brake lever size		-	4 Finger	3 Finger	-	-	3 Finger
Left hand brake lever		-	BL-IM60	BL-IM65	-	-	BL-IM45
Clamping diameter (mm)		22.2	22.2	22.2	22.2	22.2	22.2
SL compatible SG type		Inter-8	Inter-8	Inter-8	Inter-7	Inter-7	Inter-7
Average weight							
Note							

Series		Nexus	Nexus	Nexus	Nexus	Nexus	Nexus
Model no.		SL-5550	SL-5530	SL-5530-A	SL-3542E	SL-3541E	SL-3535E
Color	1	Silver	Silver	Silver	-	-	-
	2	Black	Black	Black	Black	Black	Black
	3	-	White	White	-	-	-
	4	-	-	-	-	-	-
Lever type		Rapidfire Plus	Revo	Revo	Revo	Revo	Revo
Speeds		5	5	5	3	3	3
Multi release		-	-	-	-	-	-
2-Way release		-	-	-	-	-	-
Instant release		-	-	-	-	-	-
Top-Normal		-	-	-	-	-	-
SL cable adjust		X	X	X	-	-	-
Optical gear display		Window	Window	Window	Window	Window	Dial
Multi-Bearing construction		-	-	-	-	-	-
Max Number of shift		1	4	4	2	2	2
SL outer casing		Sealed	Sealed	Sealed	Sealed	Sealed	Sealed
LED positioning light		-	-	-	-	-	-
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
SL compatible SG type		Inter-5	Inter-5	Inter-5	Inter-3	Inter-3	Inter-3
Average weight							
Note		*Japanese market only	*Japanese market only	*Japanese market only For Offset brake lever	Grip width : Long	Grip width : Short	

Nexus

Shift Lever

Series		Nexus	Nexus	Nexus	Nexus	Nexus	Nexus
Model no.		SL-3558 J	SL-3542 J	SL-3543 J	SL-3590	SL-3591J	SL-3560
Color	1	Silver	Silver	Silver	-	-	Silver
	2	Black	Black	Black	Black	-	-
	3	White	-	White	-	White	White
	4	-	-	-	Gray	-	-
Lever type		Revo	Revo	Revo	Piano-touch	Piano-touch	Revo
Speeds		3	3	3	3	3	3
Multi release		-	-	-	-	-	-
2-Way release		-	-	-	-	-	-
Instant release		-	-	-	-	-	-
Top-Normal		-	-	-	-	-	-
SL cable adjust		-	-	-	-	-	-
Optical gear display		Window	Window	Window	Dial	Dial	Window type with O.G.D light
Multi-Bearing construction		-	-	-	-	-	-
Max Number of shift		2	2	2	2	2	2
SL outer casing		Normal	Normal	Normal	Normal	Normal	Normal
LED positioning light		-	-	-	-	-	X
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
SL compatible SG type		Inter-3	Inter-3	Inter-3	Inter-3	Inter-3	Inter-3
Average weight							
Note		* Japanese market only	* Japanese market only	* Japanese market only	* Japanese market only	* Japanese market only	* Japanese market only

ALFINE

Nexus

Capreo

Series		Nexus
Model no.		SM-3560
Color	1	Silver
	2	-
	3	White
	4	-
Lever type		-
Speeds		-
Multi release		-
2-Way release		-
Instant release		-
Top-Normal		-
SL cable adjust		-
Optical gear display		-
Multi-Bearing construction		-
Max Number of shift		-
SL outer casing		-
LED positioning light		X
Brake lever Integrated		-
Brake lever size		-
Left hand brake lever		-
Clamping diameter (mm)		22.2
SL compatible SG type		-
Average weight		
Note		*L/H position light / Japanese market only

Nexus

Brake Lever

Series		Nexus	Nexus	Nexus
Model no.		BL-IM65	BL-IM60	BL-IM45
Color	1	Silver	Silver	Silver
	2	-	-	-
	3	-	-	-
Brake type	Hydraulic disc brake	-	-	-
	Mechanical disc brake			
	Hub roller brake	X	X	X
	V-BRAKE / Caliper brake	X	X	X
Recommended brake caliper		-	-	-
Oil		-	-	-
Master cylinder		-	-	-
Finger		3 finger	4 finger	4 finger
Brake hose		-	-	-
Average weight				
Note			* Left only	* Left only

Nexus

Roller Brake

Series	Nexus	Nexus
Model no.	BR-IM31	BR-IM31
Front	X	-
Rear	-	X
Structure type	Normal	Normal
Braking power (*1)	1	1
Cooling fin diameter (mm)	90	90
Heat dissipation (*1)	Less than 1	Less than 1
Without cooling fin	-	Available
Inner cable quick release	-	-
Disc brake mount compatible	-	-
Average weight		
Note *Performance index rating uses BR-IM45 brake unit as a reference value of 1. Testing condition	Recommended for Japanese market	Recommended for Japanese market

Nexus

Front Chainwheel

Series		Nexus	
Model no.		FC-NX75	
Color	1	Silver	
	2	-	
	3	-	
Chain ring teeth	45T	-	
	42T	-	
	39T	-	
	38T	X	
	33T	X	
	Others	-	
Combination with chain tensioner	CT-S500 use	X	-
	w/o tensioner (CT-S510 use)	-	X
Sprocket assembly direction	Inward assembly	-	X
	Outward assembly	-	X
Chain guard type	Double	-	-
	Single	-	-
	NA	-	X
Chain line (mm)		-	44
Rear sprocket	CS-S500	-	-
	SM-GEAR	-	X
Recommended chain type	Super Narrow HG for 9-speed	-	-
	HG 8-speed (1/2"x3/32")	-	X (CN-HG50)
	1/2"x1/8"	-	X (CN-NX10 CN-NX01)
Crank length (mm)		170	
2-piece solid crank construction		-	
OCTALINK technology		-	
Bottom bracket		BB-UN26-K YL117	
BB axle length (mm)		117	
Cover ring diameter (mm)		95.5	
Average weight			
Note	t : chain case thickness * Both of spec with bolt and spec w/o bolt are available.		

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Nexus

Capreo

Nexus

Head Parts

Series		Nexus
Model no.		HP-NX10
Color	1	Black
	2	
A (mm)		30.0 (ø29.85) or 30.2 (ø30.01)
B (mm)		30.5 - 31.5
Front fork stem thread Size		BC 1" X 24 T.P.I
C (mm)		Max. ø38
D (mm)		21.7
Average weight		
Note		

Nexus

Chain

Series		Nexus	Nexus
Model no.		CN-NX10	CN-NX01
Type		Single speed chain	Single speed chain
Size	Super Narrow HG for 9-speed	-	-
	HG 8-speed (1/2"x3/32")	-	-
	1/2"x1/8"	X	X
Anti corrosion		X	X
Half link chain		-	-
Pin link plate		-	-
Roller link plate		-	-
Chromizing treatment link pin		-	-
Hollow pin		-	-
Average weight			
Note			* Special chrome plate design

Nexus

Electric Wire

Series		Non-Series				Non-Series			
Model no.		EW-NX60 (Long)				EW-NX60 (Short)			
Number of branch		3	3	4	4	-	-	-	
Distributor		X	X	X	X	-	-	-	
Electric wire color	black	-	X	-	X	X	X	X	
	grey	X	-	X	-	-	-	-	
Length (mm)	Cord to SL / SM-R	Length	50	50	50	50	-	-	-
		EZ cable clamp	-	-	-	-	-	-	-
	Cord to SM / SM-L	Length	50	50	50	50	-	-	-
		EZ cable clamp	-	-	-	-	-	-	-
	Distributor B **	Length	46	46	-	-	-	-	-
		EZ cable clamp	-	-	-	-	-	-	-
	Distributor C *	Length	-	-	46	46	-	-	-
		EZ cable clamp	-	-	-	-	-	-	-
	Cord between distributor B/C and A	Length	315	315	315	315	-	-	-
		EZ cable clamp	-	-	-	-	-	-	-
	Distributor A ***	Length	46	46	46	46	-	-	-
		EZ cable clamp	-	-	-	-	-	-	-
	Cord to Front LP	Length	180	180	180	180	-	-	-
		EZ cable clamp	-	-	-	-	-	-	-
	Cord to Rear LP	Length	-	-	150	150	815	885	960
		EZ cable clamp	-	-	-	-	-	-	-
	Cord to Dynamo	Length	545	545	545	545	-	-	-
		EZ cable clamp	-	-	-	-	-	-	-
	Cord for converter	Length	-	-	-	-	-	-	-
		EZ cable clamp	-	-	-	-	-	-	-
Usage		DH-LP-SL-SM	DH-LP-SL-SM	DH-LP-SL-SM	DH-LP-SL-SM	EW(NX60 Long)-LP(Rear)	EW(NX60 Long)-LP(Rear)	EW(NX60 Long)-LP(Rear)	
Average weight		-	-	-	-	-	-	-	
Note		Distributor A*** : Branch from DH to LP / main cord Distributor B** : Branch from main cord to SL / SM Distributor C* : Branch from main cord to SL / SM / LP (Rear)							

Nexus

Electric Wire

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

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Capreo

Capreo

Shift Lever

Series	Capreo
Model no.	SL-F800
Lever type	Rapidfire Plus
Front speeds	-
Rear speeds	9
SL cable adjust	X
Optical gear display	Above handlebar
Multi-Bearing construction	-
2-Way release	X
SL outer casing	SP41 sealed
Stainless SL cable	X
Flight Deck w/ gear sensor compatible (Option)	-
W/ CI-DECK	-
SL compatible RD type	All 9-speed RD
Note	

Capreo

Brake Lever

Series	Capreo
Model no.	BL-F800
Brake type	V-BRAKE
Lever size (Finger)	2
Brake cable type	T-type
Power adjuster	-
SERVO-WAVE action	-
Reach adjust	X
Cable adjust	X
Note	with Internal bumper stop

Capreo

Rear Derailleur

Series		Capreo	Capreo
Model no.		RD-F800-SS	RD-F800-GS
Pulley cage		SS	GS
Speeds		9	9
Rapid-Rise rear derailleur		-	-
Total capacity		17T	17T
Max. rear sprocket		26T	26T
Min. rear sprocket		9T	9T
Riveted adapter available	Road type	-	-
	BMX-Track type	-	-
Direct attachment		X	X
Detachable bracket		-	-
Wheel-Type cable guide		-	-
Fluoric coated link bushings		3	3
Parallelogram spring adjuster		-	-
Sealed bearing guide pulley		-	-
Sealed bearing tension pulley		-	-
11T pulley		X	X
Pulley bolt holder		-	-
Removable rubber bumper		-	-
Note		SHIMANO SHADOW RD	

Capreo

Front Chainwheel

Series		Capreo
Model no.		FC-F800
Rear speeds		9
Chainring 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		-
Spider arm		-
Spider arm cover		-
Note		

Capreo

Brake

Series		Capreo
Model no.		BR-F800
Brake type		V-BRAKE
Link wire		-
Reinforced link		-
Parallel link		-
Power modulator		X (Option)
Linear spring		X
Threaded BR shoe post		X
Brake shoe type	Standard	R55C for F700/F800
	Option	-
Arch size (mm)		107
Fixing bolt length (mm)		16/25
Sleeve & Bushing type		X
Lead pipe angle		45/90/135°
Cartridge shoe holder		X
Note		

Capreo

Cassette Sprocket

Series		Capreo
Model no.		CS-HG70-S
Type		HG Cassette Sprocket
Combination	Speeds	9
	9	26
	8	23
	7	20
	6	17
	5	15
	4	13
	3	11
	2	10
Group	1	9
	Group	bc
Chain		Super Narrow HG for 9-speed
Spider arm		-
Lock ring		Steel
Steel cog		X
Ti cog		-
Note		Only for FH-F700

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	-
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	-
Seal	Hub	X
	Freewheel	-
C.B.N. (Cubic Boron Nitride)	Cone Races	-
	Cup Races	-
Stainless steel ball bearings		-
Thread for drum brake (BC1.37X24)		-
Note		

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)
	Nut	-
Seal		X
Stainless steel ball bearings		-
Strong axle		-
C.B.N. (Cubic Boron Nitride)	Cone races	-
	Cup races	-
Radial lacing		X
Note		

GENERAL

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Light

Series	Non-Series	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
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)	-	-	-
	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	-	-	-	-	-
	seat 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
	grey	-	-	-	-	-
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

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
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
	grey	-	-	-	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

Series	Tourney	
Model no.	SM-RTX2	
size	13mm	X
	16mm	X
	19mm	X
color	black	X
	grey	X
Note	frame clip	

Hub Dynamo

Series		DEORE XT	DEORE XT	DEORE XT	ALFINE	ALFINE	DEORE LX
Model no.		DH-T785	DH-T780	DH-T708	DH-S701	DH-S501	DH-T675
Color	1	Silver	Silver		Silver	Silver	Silver
	2	Black	Black		Piano Black	Piano Black	Black
	3	Silver Polish	Silver Polish		-	-	-
	4	-	-	-	-	-	-
	5	-	-	-	-	-	-
Type		Disc-brake	Regular	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Center lock mount type		X	-	X	X	X	X
Voltage (V)		6	6	6	6	6	6
Output (W)		3	3	3	1.5	3	3
QR type		X	X	-*	X	X	X
Nut type		-	-	-	-	-	-
O.L.D. (mm)		100	100	100	100	100	100
Flange Distance (mm)		52.1	60	52.1	54	52.1	52.1
Offset (mm)		3.95	0	3.9	3.1	3.8	4
Hole P.C.D. (mm)		70	70	70	57	70	70
Axle length (mm)		108	108	100	108	108	108
Spoke size		#14	#14	#14	#14	#14	#14
Seal		Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact
Spoke hole	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
Wheel size	26-28inch	X	X	X	-	X	X
	20-28inch	-	-	-	X	-	-
	16-28inch	-	-	-	-	-	-
	20-24inch	-	-	-	-	-	-
	24-28inch	-	-	-	-	-	-
	16-20inch	-	-	-	-	-	-
	Indication by "mm"	646-716	646-716	646-716	492-716	646-716	646-716
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
	For ECOVISION type (2 terminal)	-	-	-	-	-	-
Average weight							559g
Note				*8mm Ethru axle (SM-AX60)	* StVZO approval	ALFINE color and logo	

Hub Dynamo

Series		DEORE LX	DEORE LX	Non-Series	Non-Series	Non-Series	Non-Series
Model no.		DH-T670-3N	DH-T670-2N	DH-1D70	DH-1N70	DH-3D80	DH-3D72
Color	1	Silver	Silver	Silver(Anodized)	Silver(Anodized)	Anodized	Anodized
	2	Black	Black	Black(Anodized)	Black(Anodized)	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	5	-	-	-	-	-	-
Type		Regular	Regular	Disc-brake	Regular	Disc-brake	Disc-brake
Center lock mount type		-	-	X	-	X	X
Voltage (V)		6	6	6	6	6	6
Output (W)		3	2.4	1.5	1.5	3	3
QR type		X	X	X	X	X	X
Nut type		-	-	-	-	-	-
O.L.D. (mm)		100	100	100	100	100	100
Flange Distance (mm)		60	60	54	60	52.1	52.1
Offset (mm)		0	0	3.1	0	3.95	3.8
Hole P.C.D. (mm)		70	70	57	57	70	70
Axle length (mm)		108	108	108	108	108	108
Spoke size		#14	#14	#14	#14	#14	#14
Seal		Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact
Spoke hole	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
Wheel size	26-28inch	X	X	-	-	X	X
	20-28inch	-	-	X	X	-	-
	16-28inch	-	-	-	-	-	-
	20-24inch	-	-	-	-	-	-
	24-28inch	-	-	-	-	-	-
	16-20inch	-	-	-	-	-	-
	Indication by "mm"	646-716	646-716	492-716	492-716	646-716	646-716
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
	For ECOVISION type (2 terminal)	-	-	-	-	-	-
Average weight		550g	550g				
Note				Please check the domestic regulation of the final destination	Please check the domestic regulation of the final destination		

LP

DH

PM

SC

Hub Dynamo

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.		DH-3D37-QR	DH-3D37-NT	DH-3D32-QR	DH-3D32-NT	DH-3N80	DH-2N80E
Color	1	Silver	Silver	Clear	Clear	Anodized	Anodized
	2	Black	Black	Black	Black	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	5	-	-	-	-	-	-
Type		Disc-brake	Disc-brake	Disc-brake	Disc-brake	Regular	Regular
Center lock mount type		X	X	-	-	-	-
Voltage (V)		6	6	6	6	6	6
Output (W)		3	3	3	3	3	2.4
QR type		X	X	X	-	X	X
Nut type		-	-	-	X	-	-
O.L.D. (mm)		100	100	100	100	100	100
Flange Distance (mm)		51	51	51.1	51.1	60.0	60.0
Offset (mm)		4	4	4	3.6	0	0
Hole P.C.D. (mm)		74	74	74	74	70	70
Axle length (mm)		108	108	108	140	108	108
Spoke size		#14	#14	#14	#14	#14	#14
Seal		Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact
Spoke hole	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
Wheel size	26-28inch	-	-	-	-	X	X
	20-28inch	-	-	-	-	-	-
	16-28inch	X	X	X	X	-	-
	20-24inch	-	-	-	-	-	-
	24-28inch	-	-	-	-	-	-
	16-20inch	-	-	-	-	-	-
	Indication by "mm"	400-716	400-716	400-716	400-716	646-716	646-716
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
	For ECOVISION type (2 terminal)	-	-	-	-	-	-
Average weight							
Note						Weight : 490g	Weight : 490g

Hub Dynamo

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.		DH-3N72	DH-2N72	DH-3N31-QR	DH-3N31-NT	DH-2N35-QR	DH-2N35-NT
Color	1	Anodized/Black	Anodized	Silver	Silver	Silver	Silver
	2	-	-	Black	Black	Black	Black
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	5	-	-	-	-	-	-
Type		Regular	Regular	Regular	Regular	Regular	Regular
Center lock mount type		-	-	-	-	-	-
Voltage (V)		6	6	6	6	6	6
Output (W)		3	2.4	3	3	2.4	2.4
QR type		X	X	X	-	X	-
Nut type		-	-	-	X	-	X
O.L.D. (mm)		100	100	100	100	100	100
Flange Distance (mm)		60.0	60.0	60.0	60.0	60.0	60.0
Offset (mm)		0	0	0	0	1	1
Hole P.C.D. (mm)		70	70	74	74	74	74
Axle length (mm)		108	108	108	140	108	140
Spoke size		#14	#14	#14	#14	#14	#14
Seal		Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact
Spoke hole	24H	-	-	-	-	-	-
	28H	-	-	-	X	-	-
	32H	X	X	X	X	X	-
	36H	X	X	X	X	X	X
Wheel size	26-28inch	X	X	-	-	-	-
	20-28inch	-	-	-	-	-	-
	16-28inch	-	-	X	X	X	X
	20-24inch	-	-	-	-	-	-
	24-28inch	-	-	-	-	-	-
	16-20inch	-	-	-	-	-	-
	Indication by "mm"	646-716	646-716	400-716	400-716	400-716	400-716
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
	For ECOVISION type (2 terminal)	-	-	-	-	-	-
Average weight							
Note							

LP

DH

PM

SC

Hub Dynamo

Series		Capreo	Capreo	Non-Series	Non-Series	Non-Series	Non-Series
Model no.		DH-F703	DH-F702	DH-F703-S	DH-F702-S	DH-3R35-A(QR)	DH-3R35-A(NT)
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	5	-	-	-	-	-	-
Type		Regular	Regular	Regular	Regular	Hub Roller Brake	Hub Roller Brake
Center lock mount type		-	-	-	-	-	-
Voltage (V)		6	6	6	6	6	6
Output (W)		3	2.4	3	2.4	3	3
QR type		X	X	X	X	X	-
Nut type		-	-	-	-	-	X
O.L.D. (mm)		74	74/100	74	74	100	100
Flange Distance (mm)		44.6	44.6	44.6	44.6	58.1	58.1
Offset (mm)		0	0	0	0	5.2	4.7
Hole P.C.D. (mm)		74	74	74	74	74	74
Axle length (mm)		82	82	82	82	108	140
Spoke size		#14	#14	#14	#14	#14	#14
Seal		Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact
Spoke hole	24H	X	X	X	X	-	-
	28H	-	-	X	-	-	-
	32H	-	X	-	-	X	X
	36H	-	-	-	-	X	X
Wheel size	26-28inch	-	-	-	-	X	X
	20-28inch	-	-	-	-	-	-
	16-28inch	-	-	-	-	-	-
	20-24inch	-	-	-	-	-	-
	24-28inch	-	-	-	-	-	-
	16-20inch	X	X	X	X	-	-
	Indication by "mm"	400-536	400-536	400-536	400-536	646-716	646-716
Roller brake modulator grade	More than 26inch	High	-	-	-	X	X
		Standard	-	-	-	X	X
	20-24inch		-	-	-	-	-
Electric power output connector	J1 type	-	-	-	-	-	-
	J2 type	-	-	-	-	-	-
	E2 type	X	X	X	X	X	X
	For ECOVISION type (2 terminal)	-	-	-	-	-	-
Average weight							
Note							

Hub Dynamo

Series		Non-Series	Nexus	Nexus	Non-Series	Non-Series	Nexus
Model no.		DH-2R35-E	DH-2N30-J	DH-2N30-JC	DH-2N30-JW	DH-2N30-JWC	DH-2R30-J
Color	1	Silver	Clear	Clear	Black	Black	Clear
	2	Black	-	-	Silver	-	-
	3	-	-	-	-	-	-
	4	-	-	-	-	-	-
	5	-	-	-	-	-	-
Type		Hub Roller Brake	Regular	Regular	Regular	Regular	Hub Roller Brake
Center lock mount type		-	-	-	-	-	-
Voltage (V)		6	6	6	6	6	6
Output (W)		2.4	2.4	2.4	2.4	2.4	2.4
QR type		-	-	-	-	-	-
Nut type		X	X	X	X	X	X
O.L.D. (mm)		100	93	93	100	100	100
Flange Distance (mm)		58.1	60.0	60.0	60.0	60.0	58.1
Offset (mm)		4.7	0	0	2.7	2.7	4.8
Hole P.C.D. (mm)		74	74	74	74	74	74
Axle length (mm)		140	150	150	140	140	155
Spoke size		#14	#14	#14	#14	#14	#14
Seal		Single Contact	Single Contact	Single Contact	Single Contact	Single Contact	Single Contact
Spoke hole	24H	-	-	-	-	-	-
	28H	-	-	X	-	-	-
	32H	X	-	-	-	-	-
	36H	X	X	-	X	X	X
Wheel size	26-28inch	X	-	-	-	-	-
	20-28inch	-	-	-	-	-	-
	16-28inch	-	-	-	-	-	-
	20-24inch	-	-	X	-	X	-
	24-28inch	-	X	-	X	-	X
	16-20inch	-	-	-	-	-	-
	Indication by "mm"	646-716	-	-	-	-	-
Roller brake modulator grade	More than 26inch	High	X	-	-	-	-
		Standard	X	-	-	-	X
	20-24inch	-	-	-	-	-	-
Electric power output connector	J1 type	-	-	-	-	-	-
	J2 type	-	X	X	X	X	X
	E2 type	X	-	-	-	-	-
	For ECOVISION type (2 terminal)	-	-	-	-	-	-
Average weight							
Note			* Japanese market only	* Japanese market only	* Japanese market only	* Japanese market only	* Japanese market only

LP

DH

PM

SC

Hub Dynamo

Series		Nexus	
Model no.		DH-2R30-JC	
Color	1	Clear	
	2	-	
	3	-	
	4	-	
	5	-	
Type		Hub Roller Brake	
Center lock mount type		-	
Voltage (V)		6	
Output (W)		2.4	
QR type		-	
Nut type		X	
O.L.D. (mm)		100	
Flange Distance (mm)		58.1	
Offset (mm)		4.8	
Hole P.C.D. (mm)		74	
Axle length (mm)		155	
Spoke size		#14	
Seal		Single Contact	
Spoke hole	24H	-	
	28H	-	
	32H	-	
	36H	X	
Wheel size	26-28inch	-	
	20-28inch	-	
	16-28inch	-	
	20-24inch	X	
	24-28inch	-	
	16-20inch	-	
	Indication by "mm"	-	
Roller brake modulator grade	More than 26inch	High	-
		Standard	X
	20-24inch		-
Electric power output connector	J1 type	-	
	J2 type	X	
	E2 type	-	
	For ECOVISION type (2 terminal)	-	
Average weight			
Note		* Japanese market only	

Power Modulator

Series		Non-Series	Non-Series	Non-Series	Non-Series
Model no.		SM-PM70	SM-PM60	SM-PM50	SM-PM40
Modulator level		Standard	High*	Standard	Standard
Mount type		Lead pipe	Outer casing	Outer casing	Lead pipe
Available lead pipe angle	90°	X	-	-	X
	135°	X	-	-	X
Compatible Brake	V-BRAKE	X**	X**	-	X**
	Mechanical disc brake (MTB)	-	-	X**	-
	Mechanical disc brake (Road)	-	-	-	-
	Caliper (new super SLR)	-	-	-	-
	Caliper (super SLR)	-	-	-	-
	Canti brake	-	-	-	-
	Roller brake	-	-	-	-
Compatible Brake Lever	V-BRAKE 4-finger	X***	X***	X***	X***
	V-BRAKE 3-finger	X***	X***	X***	X***
	V-BRAKE 2-finger	X	X	X	X
	Road	-	-	-	-
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

LP

DH

PM

SC

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 programable 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
Setting function	Display customizing	-
	Unit setting	-
	Language choice	-
	Beep on/off	-
	Changing data sampling rate	-
For Di2 system	Di2 battery indicator	-
	Adjust indicator	-
	System diagnosis	-
	Multi shifting speed setting	-
	Speeds switching	-
	Saver reset (crash recovery mode)	-
	E-tube connector	-
	Charging connector for built-in battery	-
	Compatible charger	-
	Power current indicator	-
	Light on/off indicator	-
	Assist mode display	-
	Regenarator mode display	-
Average weight		
Note	Use with SM-TX30/ SM-TX35	

Di2 spec

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ROAD

Front Derailleur Adapter

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model no.		SM-AD90-L	SM-AD90-MS	SM-AD67-L	SM-AD67-M	SM-AD67-MS
Clamp band diameter	28.6mm	-	X*	-	-	X*
	31.8mm	-	X	-	X	X
	34.9mm	X	-	X	-	-
Average weight						
Note			*W/Multi Clamp Band			*W/Multi Clamp Band

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
E-tube connector (QTY)		0	2	0	2
Connector for remote sprinter shifter (QTY)		0	0	0	0
E-tube port (QTY)		4	0	4	0
Port for remote sprinter shifter (QTY)		2	0	2	0
Average weight		237g/pair		295g/pair	142g/pair
Note					

ROAD

Shift/Brake Lever (Disc)

Series		Non-Series
Model no.		ST-R785
Usage		On-Road, Cyclocross
Lever type		Dual Control Lever
Shift lever specifications	Front	X
	Rear	X
	Flight Deck operational SW	-
E-tube connector (QTY)	Right Bracket	0
	Left Bracket	0
Connector for remote sprinter shifter (QTY)	Right Bracket	0
	Left Bracket	0
E-tube port (QTY)	Right Bracket	1
	Left Bracket	1
Port for remote sprinter shifter (QTY)	Right Bracket	0
	Left Bracket	0
Brake lever specifications	Clamp band	OD 23.8mm-24.2mm
		ID -
	Interchangeability	Hydraulic Disc
Hydraulic system	System power	
	SERVO WAVE action	X
	Reach adjuster	X
	Free stroke adjuster	X
	Hydraulic oil	SHIMANO Mineral
	Master cylinder	Aluminum
	Hose	SM-BH59-SB-J
Hose joint	Straight	
Hose color (kit)	Black	X
	White	X
E-tube connector (QTY)		0
Connector for remote sprinter shifter (QTY)		0
E-tube port (QTY)		2
Port for remote sprinter shifter (QTY)		0
Average weight		498g/pair
Note		

Shifting Switch

Series	DURA-ACE	Non-Series	Non-Series	Non-Series
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	
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	60g/pair		10g/pair	
Note				

ROAD

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	12T	12T	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	-	-	-
Sealed bearing tension pulley	X	X	X	X
Average weight	217g	250g	260g	270g
Note				

Front Derailleur

Series	DURA-ACE	ULTEGRA	ULTEGRA
Model no.	FD-9070-F	FD-6870-F	FD-6770-F
Front speeds	2	2	2
Rear speeds	11	11	10
Link type	Conventional	Conventional	Conventional
Mount type	Brazed-On	Brazed-On	Brazed-On
Applicable Chain line (mm)	43.5	43.5	43.5
Clamp band diameter	-	-	-
Top gear teeth	50-55T	46-53T	50-56T
Total capacity	16T	16T	16T
Chainstay angle	61-66°	61-66°	61-66°
Average weight	114g	155g	
Note			

COMFORT

Internal Geared Hub

ROAD

COMFORT

GENERAL

Series		ALFINE			ALFINE		
Function name		Inter-11			Inter-8		
Model no.		SG-S705			SG-S505		
Color	1	Silver			Silver		
	2	Black			Black		
	3	-			-		
	4	-			-		
Speeds		11			8		
Silent clutch		X			X		
Gear change support mechanism		X			X		
Shifting power modulator		X			X		
Driving efficiency		HIGH			HIGH		
w/ Left hand dust cap		-			-		
Brake	Type	Center Lock Type			Center Lock Type		
	Model	BR-S700			BR-S700		
O.L.D. (mm)		135			135		
Axle length (mm)		187			187		
Gear ratio	Total	409%			307%		
	1	0.527			0.527		
	2	0.681			0.644		
	3	0.770			0.748		
	4	0.878			0.851		
	5	0.995			1		
	6	1.134			1.223		
	7	1.292			1.419		
	8	1.462			1.615		
	9	1.667			-		
	10	1.888			-		
Spoke hole	36H	X			X		
	32H	X			X		
	28H	-			-		
	Others	-			-		
Spoke size		#13 / #14			#13 / #14		
Flange distance (mm)		57.3			57.3		
Spoke Hole P.C.D. (mm)		92.6			92.6		
Flange Diameter (mm)		104.3			104.3		
Flange width (mm)	Right	3.2			3.2		
	Left	3.2			3.2		
Dishing distance (mm)		3.15			3.15		
Combination with chain tensioner	CT-S500 use	X	-	-	X	-	-
	w/o tensioner (CT-S510 use)	-	X	X	-	X	X
Sprocket assembly direction	Inward assembly	X	X	-	X	X	-
	Outward assembly	-	-	X	-	-	X
Recommended sprocket	Model no.	CS-S500	SM-GEAR	SM-GEAR	CS-S500	SM-GEAR	SM-GEAR
	Thickness(mm)	2.0	2.3	2.3	2.0	2.3	2.3
SM-GEAR: Sprocket teeth	14T	-	-	-	-	-	-
	16T	-	-	-	-	-	X
	17T	-	-	-	-	-	-
	18T	-	-	X	-	X	X
	19T	-	-	X	-	X	X
	20T	-	X	X	-	X	X
	21T	-	X	X	-	X	X
	22T	-	X	X	-	X	X
CS-S500: Sprocket teeth	18T	X	X	-	X	X	-
	20T	X	X	-	X	X	-
Recommended chain type	Super Narrow HG for 9-speed	X (CN-HG73/53)	X (CN-HG73/53)	X (CN-HG73/53)	X (CN-HG73/53)	X (CN-HG73/53)	X (CN-HG73/53)
	HG 8-speed (1/2"x3/32")	-	X (CN-HG50)	X (CN-HG50)	-	X (CN-HG50)	X (CN-HG50)
	1/2"x1/8"	-	-	-	-	-	-
Chain line (mm)		41.8	41.8	47.7	41.8	41.8	47.7
Electric switch		SW-S705 / ST-S705-R			SW-S705 / ST-S705-R		
Compatible motor unit		MU-S705			MU-S705		
Average weight		1665g	1665g	1665g	1680g	1680g	1680g
Note							

COMFORT

Motor Unit

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

Shift/Brake Lever

Series	ALFINE	ALFINE	
Model no.	ST-S705-R	BL-S705-L	
Lever type	Dual Control Lever	Brake lever	
Shift lever specifications	Front speeds	-	-
	Rear speeds	Inter-11 Inter-8	-
	Flight Deck compatible	-	-
Brake lever specifications	Reach adjust	X	X
	Clamp band (mm)	23.8 – 24.2	23.8 – 24.2
	Super SLR	X	X
Average weight			
Note			

Shifting Switch

Series	ALFINE
Model no.	SW-S705
Lever type	Shifting switch
Right SW	X
Left SW	-
Manual shifting switch	X
Display mode change	-
Shift mode (Auto/ Manual) change	-
Auto mode select switch	-
SC integration	-
Electric power connector	E-tube (EW-SD50)
Compatible SG	SG-S705 SG-S505
Compatible brake lever	BL-S700
Average weight	
Note	

Information Display

Series	ALFINE	
Model no.	SC-S705	
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	-
Display function	Touch panel	-
	Gear indicator	X
	Speed	-
	Cadence	-
	Trip distance	-
	Odometer	-
	Heart rate	-
	Power	-
	Time/Clock	-
	Altitude/Slope	-
	Temperature	-
	Lap time	-
	Auto display start	X
Setting function	Display customizing	-
	Unit setting	-
	Language choice	-
	Beep on/off	-
For Di2 system	Changing data sampling rate	-
	Di2 battery Indicator	X
	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		

GENERAL

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			

Junction-B

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

Battery

Series	Non-Series	Non-Series	Non-Series	Non-Series
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

Battery mount

Series	Non-Series	Non-Series	Non-Series
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			

GENERAL

Battery charger

Series	Non-Series	Non-Series
Model no.	SM-BCR2	SM-BCR1
Compatible battery	SM-BTR2	SM-BTR1
Charging cord	Including SM-BCR2	SM-BCC1
Average weight		
Note		

Grommet

Series	Non-Series	Non-Series
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		

Electric Wire

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

Cord cover

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

SHIMANO