SHIMANO

2024-2025

SPEC. HANDBOOK

- MTB
- TREKKING
- GRAVEL
- ROAD
- LIFESTYLE Active
- LIFESTYLE Comfort
- GENERAL
- E-BIKE

REMARKS Mark ✓ : available / Mark - : not available

All information in this spec. handbook is confidential
and has been given to you for the sole use of your product development staff.
This information should not be photo copied.
Specifications are subject to change without prior notice.

Visit SHIMANO PRODUCT WEBSITE for the latest information.

Ver. 3.1, Mar. 5, 2025, SHIMANO INC.

Word definitions

BB	Bottom bracket	**HP**	Head parts
BC	Brake outer casing	**HRB, BR**	Roller brake
BCC	Charger cord	**I-SPEC**	Integration mounting system of brake lever and shifter
BCR, EC	Battery charger		
BH	Brake hose	**ID**	CI-DECK
BL	Brake lever	**JC**	Junction
BM	Battery mount	**LP**	Light
BR	Brake caliper	**MF**	Multiple freewheel
BTC	Battery case	**MU**	Motor unit
BT, BTR	Battery	**O.L.D.**	Over Locknut Dimension
CB	Coaster brake	**OT**	Shift outer casing
CC, EWC	Wire cover	**P.C.D.**	Pitch Circle Diameter
CD	Chain device	**PCE**	PC linkage device
CG	Chain guard	**PD**	Pedal
CJ	Cassette joint	**PM**	POWER MODULATOR
CN	Chain	**QR**	Quick release
CP	Spoke protector	**RD**	Rear derailleur
CR	Chainring	**RT, SMRT**	Rotor
CS	Cassette	**RTAD**	Rotor adapter
CT	Chain tensioner	**SB**	REVOSHIFT shifter integrated with brake lever
DH	Hub dynamo		
DU	Drive unit	**SC**	Cycle computer, System information display
EW	Electric wire		
EWCP	Satellite charging port	**SF**	Single freewheel
EWEX	Di2 adapter, CAN adapter	**SG**	Internal geared hub
EWSW	Satellite system ON/OFF switch	**SL**	Shifter
EWW, WU	Wireless unit	**SPD**	SHIMANO PEDALING DYNAMICS
FC	Crankset, Crank arm	**SPD-SL**	SHIMANO PEDALING DYNAMICS-SL
FD	Front derailleur	**ST**	DUAL CONTROL LEVER : Shifter integrated with brake lever
FH	FREEHUB		
GM	Grommet	**SW**	Shift switch, Switch unit, Satellite shifter
HB	Front hub	**WH**	Wheel

Ver. 3.1, Mar. 5, 2025, SHIMANO INC.

MTB

		Page	
	Shifter	2	SL
	Seat Post Lever	12	SLMT
	Integration Unit for Shifter	12	SMSL
	Brake Lever (Hydraulic Disc Brake)	13	BL
	Brake Lever	16	BL
	Rear Derailleur	17	RD
	Front Derailleur	21	FD
	Brake (Hydraulic Disc Brake)	30	BR
	Brake (Mechanical Disc Brake)	34	BR
	Brake (V-BRAKE)	34	BR
	Crankset	35	FC
	Chain Device	45	SMCD
	Chainring	46	SMCR
	Bottom Bracket (HOLLOWTECH II)	48	BB
	Cassette	50	CS
	Front Hub (Disc Brake)	52	HB
	FREEHUB (Disc Brake)	56	FH
	Wheel (Disc Brake)	61	WH
	CI-DECK	67	CI-DECK
	Cycle Computer (CI-DECK)	68	SC
<Di2 spec.>	Shift Switch	69	SW
	Rear Derailleur	70	RD
	Front Derailleur	71	FD
	Mount Adapter for Front Derailleur	72	SMAD
	System Information Display	73	SC

Shifter

Series			XTR	XTR	XTR	XTR	XTR	XTR
Model no.			SL-M9100-R	SL-M9100-IR	SL-M9100-L	SL-M9100-IL	SL-M9000-R	SL-M9000-L
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
	3		-	-	-	-	-	-
Shifter type			RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds			-	-	2	2	-	2/3
Rear speeds			12	12	-	-	11	-
Compatible rear derailleur type			12-speed	12-speed	-	-	MTB 11-speed	-
Mount type	Clamp band		✓	-	✓	-	✓	✓
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	-	-	-	-
	I-SPEC EV		-	✓	-	✓	-	-
Shift lever position adjust			-	✓ (14 mm slide adjust range)	-	✓ (14 mm slide adjust range)	-	-
Shift lever rotation adjust (non I-SPEC EV)			-	-	-	-	-	-
Shift lever cable adjust			✓	✓	✓	✓	✓	✓
Front 2/3 mode converter			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			4	4	-	-	4	-
Release function	MULTI RELEASE		✓	✓	-	-	✓ *	-
	INSTANT RELEASE		✓	✓	✓	✓	✓	✓
	2-WAY RELEASE		✓	✓	✓	✓	✓	✓
	Adjustable lever		-	-	✓	✓	-	-
OPTICAL GEAR DISPLAY	With		-	-	-	-	-	-
	With (removable)		-	-	-	-	-	-
	Without		✓	✓	✓	✓	✓	✓
Multi-bearing construction			4	4	4	4	4	4
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Painted	Anodized	Painted	Anodized	Anodized
Clamp screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Main lever body	Material		Aluminum	Aluminum	Aluminum	Aluminum	CFRP	CFRP
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material		CFRP	CFRP	-	-	CFRP	CFRP
	Finish		-	-	-	-	-	-
Base cover	Material		CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Shift lever cable	Inner cable	Polymer-coated cable	✓	✓	✓	✓	✓	✓
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			117 (/pc)	112 (/pc)	79 (/pc)	74 (/pc)	200 (/pair)	200 (/pair)
Note			w/Rubber grooved grip (main/release lever)	w/Rubber grooved grip (main/release lever)	w/Rubber grooved grip (main lever)	w/Rubber grooved grip (main lever)	* Pull: single, push: double	

Shifter

Series			XTR	XTR	SAINT	SAINT	DEORE XT	DEORE XT
Model no.			SL-M980-B-IR	SL-M980-B-IL	SL-M820	SL-M820-B-I	SL-M8100-R	SL-M8100-IR
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	-	-	-	-
Rear speeds			10	-	10	10	12	12
Compatible rear derailleur type			MTB 10-speed	-	MTB 10-speed	MTB 10-speed	12-speed	12-speed
Mount type	Clamp band		-	-	✓	-	✓	-
	I-SPEC B		✓	✓	-	✓ **	-	-
	I-SPEC II		-	-	-	-	-	-
	I-SPEC EV		-	-	-	-	-	✓
Shift lever position adjust			✓	✓	-	✓	-	✓ (14 mm slide adjust range)
Shift lever rotation adjust (non I-SPEC EV)			✓	✓	-	✓	-	-
Shift lever cable adjust			✓ (CFRP)	✓ (CFRP)	✓ (CFRP)	✓ (CFRP)	✓	✓
Front 2/3 mode converter			-	✓	-	-	-	-
Max. multiple shifts (main lever/rear)			4	-	4	4	4	4
Release function	MULTI RELEASE		✓	-	✓ *	✓ *	✓	✓
	INSTANT RELEASE		✓	✓	✓	✓	✓	✓
	2-WAY RELEASE		✓	✓	✓	✓	✓	✓
	Adjustable lever		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		-	-	-	-	-	-
	With (removable)		-	-	-	-	-	-
	Without		✓	✓	✓	✓	✓	✓
Multi-bearing construction			4	4	4	4	2	2
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Painted	Painted	Painted	Painted
Clamp screw	Material		-	-	Stainless steel	-	Stainless steel	Stainless steel
	Finish		-	-	Black	-	Black	Black
Main lever body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Painted	Painted	Painted	Painted
Release lever body	Material		Steel+CFRP	Steel+CFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-	-	-	-
Base cover	Material		CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	-	-	-	✓	✓
		SIL-TEC	✓	✓	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			103 (/pc)	98 (/pc)	123 (/pc)	114 (/pc)	117 (/pc)	120 (/pc)
Note					* Pull: single, push: double	* Pull: single, push: double ** I-spec B-type	w/Rubber grooved grip (main lever)	w/Rubber grooved grip (main lever)

Shifter

Series			DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.			SL-M8100-L	SL-M8100-IL	SL-M8130-R11	SL-M8130-IR11	SL-M8000-R	SL-M8000-L
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
	3		-	-	-	-	-	-
Shifter type			RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds			2	2	-	-	-	2/3
Rear speeds			-	-	11	11	11	-
Compatible rear derailleur type			-	-	LINKGLIDE 11-speed	LINKGLIDE 11-speed	MTB 11-speed	-
Mount type	Clamp band		✓	-	✓	-	✓	✓
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	-	-	-	-
	I-SPEC EV		-	✓	-	✓	-	-
Shift lever position adjust			-	✓ (14 mm slide adjust range)	-	✓	-	-
Shift lever rotation adjust (non I-SPEC EV)			-	-	-	-	-	-
Shift lever cable adjust			✓	✓	✓	✓	✓	✓
Front 2/3 mode converter			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			-	-	2	2	4	-
Release function	MULTI RELEASE		-	-	-	-	✓ *	-
	INSTANT RELEASE		✓	✓	✓	✓	✓	✓
	2-WAY RELEASE		✓	✓	✓	✓	✓	✓
	Adjustable lever		✓	✓	-	-	-	-
OPTICAL GEAR DISPLAY	With		-	-	-	-	-	-
	With (removable)		-	-	-	-	✓	✓
	Without		✓	✓	✓	✓	✓	✓
Multi-bearing construction			2	2	2	2	2	2
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Black	Black	Black	Black	-	-
Main lever body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material		Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-	-	-	-
Base cover	Material		GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			78 (/pc)	78 (/pc)	117 (/pc)	120 (/pc)	127 (/pc)	117 (/pc)
Note			w/Rubber grooved grip (main lever)	w/Rubber grooved grip (main lever)	-	-	* Pull: single, push: double	

Shifter

Series			DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.			SL-M8000-IR	SL-M8000-IL	SL-M8000-B-IR	SL-M780-B-IR	SL-M780-B-IL	SL-M780-R
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			11	-	11	10	-	10
Compatible rear derailleur type			MTB 11-speed	-	MTB 11-speed	MTB 10-speed	-	MTB 10-speed
Mount type	Clamp band		-	-	-	-	-	✓
	I-SPEC B		-	-	✓	✓	✓	-
	I-SPEC II		✓	✓	-	-	-	-
	I-SPEC EV		-	-	-	-	-	-
Shift lever position adjust			✓	✓	✓	✓	✓	-
Shift lever rotation adjust (non I-SPEC EV)			✓	✓	✓	✓	✓	-
Shift lever cable adjust			✓	✓	✓	✓	✓	✓
Front 2/3 mode converter			-	-	-	-	✓	-
Max. multiple shifts (main lever/rear)			4	-	4	4	-	4
Release function	MULTI RELEASE		✓ *	-	✓ *	✓	-	✓
	INSTANT RELEASE		✓	✓	✓	✓	✓	✓
	2-WAY RELEASE		✓	✓	✓	✓	✓	✓
	Adjustable lever		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		-	-	-	-	-	-
	With (removable)		-	-	-	-	-	✓
	Without		✓	✓	✓	✓	✓	✓
Multi-bearing construction			2	2	2	2	2	2
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		-	-	-	-	-	Stainless steel
	Finish		-	-	-	-	-	-
Main lever body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material		Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-	-	-	-
Base cover	Material		GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	✓	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			120 (/pc)	110 (/pc)	117 (/pc)	114 (/pc)	106 (/pc)	128 (/pc)
Note			* Pull: single, push: double		* Pull: single, push: double			

Shifter

Series			DEORE XT	DEORE XT	DEORE XT	SLX	SLX	SLX
Model no.			SL-M780-L	SL-M770-A-R	SL-M770-A-L	SL-M7100-R	SL-M7100-IR	SL-M7100-L
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 MONO
Front speeds			2/3	-	3	-	-	2
Rear speeds			-	9	-	12	12	-
Compatible rear derailleur type			-	MTB 9-speed	-	12-speed	12-speed	-
Mount type	Clamp band		✓	✓	✓	✓	-	✓
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	-	-	-	-
	I-SPEC EV		-	-	-	-	✓	-
Shift lever position adjust			-	-	-	-	✓ (14 mm slide adjust range)	-
Shift lever rotation adjust (non I-SPEC EV)			-	-	-	-	-	-
Shift lever cable adjust			✓	✓	✓	✓	✓	✓
Front 2/3 mode converter			✓	-	-	-	-	-
Max. multiple shifts (main lever/rear)			-	4	-	3	3	-
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		✓	✓	✓	-	-	✓
	2-WAY RELEASE		✓	✓	✓	✓	✓	✓
	Adjustable lever		-	-	-	-	-	✓
OPTICAL GEAR DISPLAY	With		-	-	-	-	-	-
	With (removable)		✓	✓	✓	-	-	-
	Without		✓	✓	✓	✓	✓	✓
Multi-bearing construction			2	2	2	-	-	-
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Main lever body	Material		Aluminum	Aluminum	Aluminum	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		Painted	Painted	Painted	-	-	-
Release lever body	Material		Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-	-	-	-
Base cover	Material		GFRP	Resin	Resin	GFRP	GFRP	GFRP
	Finish		Painted	Painted	Painted	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	-	-	✓	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			121 (/pc)	255 (/pair)	255 (/pair)	117 (/pc)	117 (/pc)	77 (/pc)
Note								

Shifter

Series			SLX	SLX	SLX	SLX	SLX	SLX
Model no.			SL-M7100-IL	SL-M7000-11-R	SL-M7000-L	SL-M7000-11-IR	SL-M7000-IL	SL-M7000-10-R
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
	3		-	-	-	-	-	-
Shifter type			RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds			2	-	2/3	-	2/3	-
Rear speeds			-	11	-	11	-	10
Compatible rear derailleur type			-	MTB 11-speed	-	MTB 11-speed	-	MTB 10-speed
Mount type	Clamp band		-	✓	✓	-	-	✓
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	-	✓	✓	-
	I-SPEC EV		✓	-	-	-	-	-
Shift lever position adjust			✓ (14 mm slide adjust range)	-	-	✓	✓	-
Shift lever rotation adjust (non I-SPEC EV)			-	-	-	✓	✓	-
Shift lever cable adjust			✓	✓	✓	✓	✓	✓
Front 2/3 mode converter			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			-	3	-	3	-	3
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		✓	-	-	-	-	-
	2-WAY RELEASE		✓	✓	✓	✓	✓	✓
	Adjustable lever		✓	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		-	-	-	-	-	-
	With (removable)		-	✓	✓	-	-	✓
	Without		✓	✓	✓	✓	✓	✓
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	Stainless steel	Stainless steel	-	-	Stainless steel
	Finish		-	-	-	-	-	-
Main lever body	Material		Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-	-	-	-
Release lever body	Material		Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-	-	-	-
Base cover	Material		GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			77 (/pc)	135 (/pc)	130 (/pc)	120 (/pc)	115 (/pc)	135 (/pc)
Note								

Shifter

Series			SLX	SLX	SLX	SLX	DEORE	DEORE
Model no.			SL-M7000-10-IR	SL-M7000-10-B-IR	SL-M670-B-IR	SL-M670-B-IL	SL-M6100-R	SL-M6100-IR
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	-	-
Rear speeds			10	10	10	-	12	12
Compatible rear derailleur type			MTB 10-speed	MTB 10-speed	MTB 10-speed	-	MTB 12-speed	MTB 12-speed
Mount type	Clamp band		-	-	-	-	✓	-
	I-SPEC B		-	✓	✓	✓	-	-
	I-SPEC II		✓	-	-	-	-	-
	I-SPEC EV		-	-	-	-	-	✓
Shift lever position adjust			✓	✓	✓	✓	-	✓ (14 mm slide adjust range, w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)
Shift lever rotation adjust (non I-SPEC EV)			✓	✓	✓	✓	-	-
Shift lever cable adjust			✓	✓	✓	✓	✓	✓
Front 2/3 mode converter			-	-	-	✓	-	-
Max. multiple shifts (main lever/rear)			3	3	3	-	3	3
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		✓	✓	✓	✓	✓	✓
	Adjustable lever		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		-	-	-	-	✓	✓
	With (removable)		-	-	-	-	-	-
	Without		✓	✓	✓	✓	✓	✓
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		-	-	-	-	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Main lever body	Material		Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-	-	-	-
Release lever body	Material		Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-	-	-	-
Base cover	Material		GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	-	-	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			120 (/pc)	127 (/pc)	121 (/pc)	116 (/pc)	-	-
Note								

Shifter

Series			DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.			SL-M6000-R	SL-M6000-L	SL-M6000-IR	SL-M6000-IL	SL-M5100-R	SL-M5100-IR
Color	1		Series black	Series black	Series black	Series black	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	-	11	11
Compatible rear derailleur type			MTB 10-speed	-	MTB 10-speed	-	MTB 11-speed	MTB 11-speed
Mount type	Clamp band		✓	✓	-	-	✓	-
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	✓	✓	-	-
	I-SPEC EV		-	-	-	-	-	✓
Shift lever position adjust			-	-	-	-	-	✓ (14 mm slide adjust range, w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)
Shift lever rotation adjust (non I-SPEC EV)			-	-	✓	✓	-	-
Shift lever cable adjust			✓	✓	✓	✓	✓	✓
Front 2/3 mode converter			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			3	-	3	-	3	3
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		✓	✓	✓	✓	✓	✓
	Adjustable lever		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		✓	✓	-	-	✓	✓
	With (removable)		-	-	-	-	-	-
	Without		✓	✓	✓	✓	✓	✓
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	Stainless steel	-	-	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Main lever body	Material		Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-	-	-	-
Release lever body	Material		Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-	-	-	-
Base cover	Material		GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			-	-	-	-	-	-
Note								

Shifter

Series			DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.			SL-M5100-L	SL-M5100-IL	SL-M5130-R10	SL-M4100-R	SL-M4100-IR	SL-M610-IR
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
	3		-	-	-	-	-	-
Shifter type			RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds			2	2	-	-	-	-
Rear speeds			-	-	10	10	10	10
Compatible rear derailleur type			-	-	LINKGLIDE 10-speed	MTB 10-speed	MTB 10-speed	MTB 10-speed
Mount type	Clamp band		✓	-	✓	✓	-	-
	I-SPEC B		-	-	-	-	-	✓
	I-SPEC II		-	-	-	-	-	-
	I-SPEC EV		-	✓	-	-	✓	-
Shift lever position adjust			-	✓ (14 mm slide adjust range)	-	-	✓ (w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY) *	-
Shift lever rotation adjust (non I-SPEC EV)			-	-	-	-	-	✓
Shift lever cable adjust			✓	✓	✓	✓	✓	✓
Front 2/3 mode converter			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			-	-	2	3	3	3
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		✓	✓	✓	✓	✓	✓
	Adjustable lever		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		-	-	✓	✓	✓	-
	With (removable)		-	-	-	-	-	-
	Without		✓	✓	✓	✓	✓	✓
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-
	Finish		-	-	-	-	-	-
Main lever body	Material		Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-	-	-	-
Release lever body	Material		-	-	Steel+GFRP	Steel+Resin	Steel+Resin	Steel+GFRP
	Finish		-	-	-	-	-	-
Base cover	Material		GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	✓	✓	✓	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	✓	-	-	✓
		Steel	✓	✓	-	✓	✓	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			-	-	-	-	-	-
Note					-			

Shifter

Series			DEORE	DEORE	DEORE
Model no.			SL-M610-IL	SL-M590-R	SL-M590-L
Color	1		Series color	Series color	Series color
	2		-	-	-
	3		-	-	-
Shifter type			RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds			2/3	-	3
Rear speeds			-	9	-
Compatible rear derailleur type			-	MTB 9-speed	-
Mount type	Clamp band		-	✓	✓
	I-SPEC B		✓	-	-
	I-SPEC II		-	-	-
	I-SPEC EV		-	-	-
Shift lever position adjust			-	-	-
Shift lever rotation adjust (non I-SPEC EV)			✓	-	-
Shift lever cable adjust			✓	✓	✓
Front 2/3 mode converter			✓	-	-
Max. multiple shifts (main lever/rear)			-	3	-
Release function	MULTI RELEASE		-	-	-
	INSTANT RELEASE		-	-	-
	2-WAY RELEASE		✓	✓	✓
	Adjustable lever		-	-	-
OPTICAL GEAR DISPLAY	With		-	✓	✓
	With (removable)		-	-	-
	Without		✓	-	-
Multi-bearing construction			-	-	-
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted
Clamp screw	Material		-	Stainless steel	Stainless steel
	Finish		-	-	-
Main lever body	Material		Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-
Release lever body	Material		Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-
Base cover	Material		GFRP	GFRP	GFRP
	Finish		-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-
		OPTISLICK	-	-	-
		SIL-TEC	-	-	-
		Stainless	✓	✓	✓
		Steel	-	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41
Average weight (g)			-	-	-
Note					

Seat Post Lever

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		SL-MT800-IL	SL-MT500-L	SL-MT500-IL
Color	1	Black	Black	Black
	2	-	-	-
Lever type		Seat post lever	Seat post lever	Seat post lever
Mount type	Clamp band	-	✓	-
	I-SPEC B	-	-	-
	I-SPEC II	-	-	-
	I-SPEC EV	✓	-	✓
Lever position adjust		✓	-	✓
Lever rotation adjust (non I-SPEC EV)		-	-	-
Cable adjuster		✓	✓	✓
Multi bearing construction		✓	-	-
Lever bracket	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel
	Finish	Black oxide finish	-	-
Lever body	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Lever cable	Material	Stainless steel	Steel	Steel
	Finish	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41
Average weight (g)		37	-	-
Note		7 mm Cable Pitch, 1800 mm inner wire length	9 mm Cable Pitch, 1800 mm inner wire length	9 mm Cable Pitch, 1800 mm inner wire length

Integration Unit for Shifter

Series		XTR	XTR	DEORE XT	DEORE XT
Model no.		SM-SL98-B-R	SM-SL98-B-L	SM-SL78-B-R	SM-SL78-B-L
Base cover material		CFRP	CFRP	GFRP	GFRP
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted
I-SPEC compatible		✓*	✓*	✓*	✓*
Compatible shifter		SL-M980	SL-M980	SL-M780	SL-M780
Note		* I-SPEC B-type compatible	* I-SPEC B-type compatible	* I-SPEC B-type compatible	* I-SPEC B-type compatible

Brake Lever (Hydraulic Disc Brake)

Series		XTR	XTR	SAINT	DEORE XT	DEORE XT	SLX
Model no.		BL-M9100	BL-M9120	BL-M820-B	BL-M8100	BL-M8000	BL-M7100
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		2	2	2	2	2	2
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake hose (kit)		SM-BH90-SS	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBM
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	White	-	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
SERVO WAVE		-	✓	✓	✓	✓	✓
Reach adjust	Toolless	-	✓	✓	✓	✓	✓
	Tool	✓	-	-	-	-	-
Free stroke adjust		-	✓	✓	✓	✓	-
Compatible shifter mount	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	✓	-	-	-
	I-SPEC II	-	-	-	-	✓	-
	I-SPEC EV	✓	✓	-	✓	-	✓
Clamp band	Open clamp	✓	✓	✓	✓	✓	✓
Shifter rotation angle adjust range (I-SPEC EV; deg.)		60	60	-	20	-	20
Recommended brake caliper		BR-M9100, BR-M9110-R	BR-M9120	BR-M820	BR-M8100, BR-M8110-R, BR-M8120	BR-M8000	BR-M7100, BR-M7110-R, BR-M7120
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
Funnel bleeding		✓	✓	✓	✓	✓	✓
Clamp screw	Material	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Painted	Painted	Painted	-	Painted
Brake lever	Material	Carbon	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Anodized	Anodized	Anodized
Master cylinder	Material	Magnesium	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (g)		66	97	104	105	104	107
Note							

Brake Lever (Hydraulic Disc Brake)

Series		DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BL-M6100	BL-M4100	BL-MT501	BL-MT401	BL-MT402-3A	BL-MT201
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		2	2	2	2	3	3
Color	1	Series color	Black (SHIMANO logo)	Black	Black (metallic silver lever)	Black	Black
	2	Black (SHIMANO Logo)	-	-	Black (black lever)	Silver *	-
	3	-	-	-	-	-	-
Brake hose (kit)		SM-BH90-SS	SM-BH59-JK-SS (for BR-MT410) SM-BH90-SS (for BR-MT420)	SM-BH59-JK-SS (for BR-MT500) SM-BH90-SS (for BR-MT520)	SM-BH59-JK-SS (for BR-MT410) SM-BH90-SS (for BR-MT420)	SM-BH59-JK-SS (for BR-MT410) SM-BH90-SS (for BR-MT420)	SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
SERVO WAVE		✓	-	✓	-	-	-
Reach adjust	Toolless	-	-	-	-	-	-
	Tool	✓	✓	✓	✓	✓	✓
Free stroke adjust		-	-	-	-	-	-
Compatible shifter mount	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	✓	-	-	-
	I-SPEC EV	✓	✓	-	-	-	-
Clamp band	Open clamp	✓	✓	✓	-	-	-
Shifter rotation angle adjust range (I-SPEC EV; deg.)		10	10	-	-	-	-
Recommended brake caliper		BR-M6100 BR-M6120	BR-MT410 BR-MT420	BR-MT500 BR-MT520	BR-MT410 BR-MT420	BR-MT410 BR-MT420	BR-MT200 BR-UR300
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
Funnel bleeding		✓	✓	✓	✓	✓	✓
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel
	Finish	-	-	-	Plated	Plated	Plated
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (g)		-	-	-	-	-	-
Note				-	-	* The option color part is master cylinder	-

Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO
Model no.		BL-MT200
Brake type		Hydraulic disc brake
Lever size (finger)		3
Color	1	Black
	2	-
	3	-
Brake hose (kit)		SM-BH59-JK-SS
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
J-Kit spec (for OEM)		✓
SERVO WAVE		-
Reach adjust	Toolless	-
	Tool	✓
Free stroke adjust		-
Compatible shifter mount	Clamp band	✓
	I-SPEC B	-
	I-SPEC II	-
	I-SPEC EV	-
Clamp band	Open clamp	-
Shifter rotation angle adjust range (I-SPEC EV ; deg.)		-
Recommended brake caliper		BR-MT200 BR-UR300
Oil		SHIMANO mineral
Funnel bleeding		✓
Clamp screw	Material	Steel
	Finish	Plated
Brake lever	Material	Steel
	Finish	Painted
Master cylinder	Material	Aluminum
	Finish	Painted
Average weight (g)		-
Note		-

Brake Lever

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

Rear Derailleur

Series			XTR	XTR	XTR	DEORE XT	DEORE XT	DEORE XT
Model no.			RD-M9100-GS	RD-M9100-SGS	RD-M9120-SGS	RD-M8100-GS	RD-M8100-SGS	RD-M8120-SGS
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			12	12	12 (front double)	12	12	12 (front double)
Compatible chain			HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
RD construction	SHIMANO SHADOW RD		-	-	-	-	-	-
	SHIMANO SHADOW RD+		✓	✓	✓	✓	✓	✓
	Double servo		-	-	-	-	-	-
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
		Direct mount	-	-	-	-	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	-	-	-	-	-	-
		Direct mount	-	-	-	-	-	-
	UDH standard		✓	✓	✓	✓	✓	✓
	Riveted adapter	ROAD type	-	-	-	-	-	-
		BMX-track type	-	-	-	-	-	-
Mode converter			-	-	-	-	-	-
Cable adjuster			-	-	-	-	-	-
Max. front difference			0T	0T	10T	0T	0T	10T
Total capacity			35T	41T	41T	35T	41T	45T
Low sprocket	Max.		45T	51T	45T	45T	51T	45T
	Min.		45T	51T	45T	45T	51T	45T
Top sprocket	Max.		10T	10T	10T	10T	10T	10T
	Min.		10T	10T	10T	10T	10T	10T
Fluoric coated link bushings			8	8	8	4	7	7
Pulley	Guide pulley bearing		Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	Tension pulley bearing		Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing
	Teeth		13T	13T	13T	13T	13T	13T
	Screws material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓	✓	✓	✓	✓
Bracket	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
B-axle	Hollow axle		✓	✓	✓	✓	✓	✓
	Material		Aluminum	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish		Anodized	Anodized	Anodized	-	-	-
B-axle 2	Hollow axle		-	-	-	-	-	-
	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	-	-	-	-	-
Plate body	Material		CFRP	CFRP	CFRP	GFRP	GFRP	GFRP
	Finish		Painted	Painted	Painted	-	-	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Painted	Painted	Painted
Outer plate	Material		Carbon	Carbon	Carbon	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Painted	Painted	Painted
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Black	Black	Black	-	-	-
Stroke adjusting screw	Material		Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish		Anodized	Anodized	Anodized	Plated	Plated	Plated
Average weight (g)			237	240	241	286	284	287
Note				w/Bumper on pully cage		w/Bumper on pully cage	w/Bumper on pully cage	

Rear Derailleur

Series			SLX	SLX	DEORE	DEORE XT	DEORE XT	DEORE
Model no.			RD-M7100-SGS	RD-M7120-SGS	RD-M6100-SGS	RD-M8130-SGS	RD-M8000-SGS	RD-M5100-SGS
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			12	12 (front double)	12	11	11	11
Compatible chain			HG 12-speed	HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
RD construction	SHIMANO SHADOW RD		-	-	-	-	-	-
	SHIMANO SHADOW RD+		✓	✓	✓	✓	✓	✓
	Double servo		-	-	-	-	-	-
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
		Direct mount	-	-	-	-	✓	-
	SHIMANO ROAD type	Direct attachment (conventional)	-	-	-	-	-	-
		Direct mount	-	-	-	-	-	-
	UDH standard		✓	✓	✓	✓	-	-
	Riveted adapter	ROAD type	-	-	-	-	-	-
		BMX-track type	-	-	-	-	-	-
Mode converter			-	-	-	-	-	-
Cable adjuster			-	-	-	-	-	-
Max. front difference			0T	10T	0T	0T	18T	0T
Total capacity			41T	45T	41T	39T	47T	40T
Low sprocket	Max.		51T	45T	51T	50T	40T (3x11-speed), 42T (2x11-speed), 46T (1x11-speed)	51T
	Min.		51T	45T	51T	50T	40T	51T
Top sprocket	Max.		10T	10T	10T	11T	11T	11T
	Min.		10T	10T	10T	11T	11T	11T
Fluoric coated link bushings			7	7	7	7	4	7
Pulley	Guide pulley bearing		-	-	-	Sealed Bearing	Sealed Bearing	-
	Tension pulley bearing		-	-	-	Sealed bearing	Sealed bearing	-
	Teeth		13T	13T	13T	13T	11T	13T
	Screws material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓	✓	✓	✓	✓
Bracket	Material		-	-	-	-	Aluminum	-
	Finish		-	-	-	-	Painted	-
B-axle	Hollow axle		✓	✓	✓	✓	✓	✓
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
B-axle 2	Hollow axle		-	-	-	-	✓	-
	Material		-	-	-	-	Stainless steel	-
	Finish		-	-	-	-	-	-
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	-	-	-	-	-
Plate body	Material		GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish		-	-	-	-	-	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material		Steel	Aluminum	Steel	Aluminum	Aluminum	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Steel	Steel	Aluminum	Aluminum	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)			313	307	-	308	275	-
Note			w/Bumper on pully cage			w/Bumper on pully cage	* w/o Bracket spec. available	

Rear Derailleur

Series			DEORE	DEORE	SAINT	SLX	SLX	SLX
Model no.			RD-M5120-SGS	RD-M4120-SGS	RD-M820-SS	RD-M7000-10-SGS	RD-M670-GS	RD-M670-SGS
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			11/10	11/10	10	10	10	10
Compatible chain			HG-X11 11-speed HG-X 10-speed	HG-X11 11-speed HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
RD construction	SHIMANO SHADOW RD		-	✓	-	-	✓	✓
	SHIMANO SHADOW RD+		✓	-	✓	✓	-	-
	Double servo		-	-	-	-	-	-
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
		Direct mount	✓	✓	✓	✓	✓	✓
	SHIMANO ROAD type	Direct attachment (conventional)	-	-	-	-	-	-
		Direct mount	-	-	-	-	-	-
	UDH standard		-	-	-	-	-	-
	Riveted adapter	ROAD type	-	-	-	-	-	-
		BMX-track type	-	-	-	-	-	-
Mode converter			-	-	✓	-	-	-
Cable adjuster			-	-	-	-	-	-
Max. front difference			10T	10T	Single	22T	18T	22T
Total capacity			41T	41T	25T	43T	35T	43T
Low sprocket	Max.		46T (1x11/1x10-speed), 42T (2x11/2x10-speed)	42T	28T, 36T	36T	36T	36T
	Min.		42T	42T	23T	32T	32T	32T
Top sprocket	Max.		11T	11T	12T	11T	11T	11T
	Min.		11T	11T	11T	11T	11T	11T
Fluoric coated link bushings			4	3	5	2	3	3
Pulley	Guide pulley bearing		-	-	-	-	-	-
	Tension pulley bearing		-	-	Sealed bearing	-	-	-
	Teeth		11T	11T	11T	11T	11T	11T
	Screws material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓	✓	✓	✓	✓
Bracket	Material		Steel	Steel	Aluminum	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
B-axle	Hollow axle		✓	✓	✓	✓	✓	✓
	Material		Stainless steel	Stainless steel	Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	Anodized	-	-	-
B-axle 2	Hollow axle		✓	✓	✓	✓	-	-
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	Zinc plated	-	-	-	-
Plate body	Material		Resin	Resin	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		-	Painted	Painted	Painted	Painted	Painted
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Resin	Resin	Aluminum	Steel	Steel	Steel
	Finish		-	Painted	Painted	Painted	Painted	Painted
Outer plate	Material		Steel	Steel	Aluminum	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Steel	Steel	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	Black	-	-	-
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)			-	-	280 (w/o mode converter)	313	278	281
Note					* w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available

Rear Derailleur

Series			DEORE	DEORE	DEORE	DEORE	DEORE
Model no.			RD-M6000-GS	RD-M6000-SGS	RD-M5130-GS	RD-M610-GS	RD-M610-SGS
Color	1		Series black	Series black	Series color	Black	Black
	2		-	-	-	Silver	Silver
Rear speeds			10	10	10	10	10
Compatible chain			HG-X 10-speed	HG-X 10-speed	LINKGLIDE, HG 11-speed	HG-X 10-speed	HG-X 10-speed
RD construction	SHIMANO SHADOW RD		-	-	-	✓	✓
	SHIMANO SHADOW RD+		✓	✓	✓	-	-
	Double servo		-	-	-	-	-
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	✓	✓	✓	✓	✓
		Direct mount	✓	✓	-	✓	✓
	SHIMANO ROAD type	Direct attachment (conventional)	-	-	-	-	-
		Direct mount	-	-	-	-	-
	UDH standard		-	-	✓	-	-
	Riveted adapter	ROAD type	-	-	-	-	-
		BMX-track type	-	-	-	-	-
Mode converter			-	-	-	-	-
Cable adjuster			-	-	-	-	-
Max. front difference			10T	22T	0T	18T	22T
Total capacity			41T	43T	32T	35T	43T
Low sprocket	Max.		42T	36T	43T	36T	36T
	Min.		42T	32T	43T	32T	32T
Top sprocket	Max.		11T	11T	11T	11T	11T
	Min.		11T	11T	11T	11T	11T
Fluoric coated link bushings			4	3	7	3	3
Pulley	Guide pulley bearing		-	-	Bush	-	-
	Tension pulley bearing		-	-	Bush	-	-
	Teeth		11T	11T	13T	11T	11T
	Screws material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓	✓	✓	✓
Bracket	Material		Steel	Steel	-	Steel	Steel
	Finish		Painted	Painted	-	Painted	Painted
B-axle	Hollow axle		✓	✓	-	✓	✓
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-
B-axle 2	Hollow axle		✓	✓	-	✓	✓
	Material		Stainless steel	Stainless steel	-	Stainless steel	Stainless steel
	Finish		-	-	-	-	-
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel	Steel
	Finish		Painted	-	-	-	-
Plate body	Material		GFRP	Aluminum	GFRP	Aluminum	Aluminum
	Finish		-	Painted	-	Painted	Painted
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Steel	Aluminum	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted
Outer plate	Material		Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted
Cable fixing screw	Material		Steel	Steel	Stainless steel	Steel	Steel
	Finish		Plated	Plated	-	Plated	Plated
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated
Average weight (g)			-	-	-	-	-
Note			* w/o Bracket spec. available	* w/o Bracket spec. available	-	* w/o Bracket spec. available	* w/o Bracket spec. available

Front Derailleur

Series			XTR	XTR	XTR	DEORE XT	DEORE XT	DEORE XT
Model no.			FD-M9100-D	FD-M9100-E	FD-M9100-M	FD-M8100-D	FD-M8100-E	FD-M8100-M
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Front speeds			2	2	2	2	2	2
Rear speeds			12	12	12	12	12	12
Compatible chain			HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
Action	TOP SWING		-	-	-	-	-	-
	Down swing		-	-	-	-	-	-
	SIDE SWING		✓	✓	✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	-	-	- *	-	-	- *
		31.8	-	-	✓ (w/ M size adapter)	-	-	✓ (w/ M size adapter)
		34.9	-	-	✓	-	-	✓
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	✓	-	-	✓	-
	Direct mount		✓	-	-	✓	-	-
Cable route type	Dual-pull		-	-	-	-	-	-
	Top-pull exclusive		-	-	-	-	-	-
	Down-pull exclusive		-	-	-	-	-	-
	Front-pull		✓	✓	✓	✓	✓	✓
Chain line (mm)			48.8 (142 mm O.L.D.), 51.8 (148 mm O.L.D.)	48.8 (142 mm O.L.D.), 51.8 (148 mm O.L.D.)	48.8 (142 mm O.L.D.), 51.8 (148 mm O.L.D.)	48.8 (142 mm O.L.D.), 51.8 (148 mm O.L.D.)	48.8 (142 mm O.L.D.), 51.8 (148 mm O.L.D.)	48.8 (142 mm O.L.D.), 51.8 (148 mm O.L.D.)
Chainstay angle (deg.)			66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			38T	38T	38T	36-38T	36-38T	36-38T
Total capacity			10T	10T	10T	10T	10T	10T
Applicable top-mid tooth difference			-	-	-	-	-	-
Multi access cable fixing screw			-	-	-	-	-	-
Angled stroke adjust screw			✓	✓	✓	✓	✓	✓
Angled clamp band design			-	-	-	-	-	✓
Link bushings			6	6	6	6	6	6
Front clamp band	Material		-	-	Aluminum	-	-	Aluminum
	Finish		-	-	Painted	-	-	Painted
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		-	-	Stainless steel	-	-	Stainless steel
	Finish		-	-	-	-	-	-
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material		Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Black	Black	Black	Black	Black	Black
Average weight (g) (band type: L size, direct type w/ screw)			110	88	99	135	106	114
Note			-	-	* S-size adapter is available in OTC package only Chain line 48.8 mm, 51.8 mm compatible			* S-size adapter is available in OTC package only Chain line 48.8 mm, 51.8 mm compatible

Front Derailleur

Series			SLX	SLX	SLX	SLX	SLX	SLX
Model no.			FD-M7100-D	FD-M7100-E	FD-M7100-M	FD-M7025-11-D	FD-M7025-11-H	FD-M7025-11-L
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Front speeds			2	2	2	2	2	2
Rear speeds			12	12	12	11	11	11
Compatible chain			HG 12-speed	HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Action	TOP SWING		-	-	-	-	-	✓
	Down swing		-	-	-	✓	✓	-
	SIDE SWING		✓	✓	✓	-	-	-
Mount	Clamp band (mm)	28.6	-	-	- *	-	- *	- *
		31.8	-	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	-	-	✓	-	✓	✓
	E-type	With bottom bracket plate	-	-	✓	-	-	-
		Without bottom bracket plate	-	✓	-	-	-	-
	Direct mount		✓	-	-	✓	-	-
Cable route type	Dual-pull		-	-	-	✓	✓	-
	Top-pull exclusive		-	-	-	-	-	-
	Down-pull exclusive		-	-	-	-	-	✓
	Front-pull		✓	✓	✓	-	-	-
Chain line (mm)			48.8 (142 mm O.L.D.), 51.8 (148 mm O.L.D.)	48.8 (142 mm O.L.D.), 51.8 (148 mm O.L.D.)	48.8 (142 mm O.L.D.), 51.8 (148 mm O.L.D.)	48.8	48.8	48.8
Chainstay angle (deg.)			66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			36-38T	36-38T	36-38T	34-38T	34-38T	34-38T
Total capacity			10T	10T	10T	10T	10T	10T
Applicable top-mid tooth difference			-	-	-	-	-	-
Multi access cable fixing screw			-	-	-	-	-	-
Angled stroke adjust screw			✓	✓	✓	✓	✓	✓
Angled clamp band design			-	-	✓	-	✓	✓
Link bushings			6	6	6	6	6	6
Front clamp band	Material		-	-	Aluminum	-	Aluminum	Aluminum
	Finish		-	-	Painted	-	Painted	Painted
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		-	-	Stainless steel	-	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Steel	Steel	Steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Black	Black	Black	-	-	-
Average weight (g) (band type: L size, direct type w/ screw)			135	106	114	140	152	133
Note					* S-size adapter is available in OTC package only Chain line 48.8 mm, 51.8 mm compatible		* S-size adapter is available in OTC package only.	* S-size adapter is available in OTC package only.

Front Derailleur

Series			DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.			FD-M785	FD-M785-E2	FD-M786	FD-M786-D	FD-M770	FD-M770-E
Color	1		Black	Black	Black	Black	Series color	Series color
	2		-	-	Silver	Silver	-	-
Front speeds			2	2	2	2	3	3
Rear speeds			10	10	10	10	9	9
Compatible chain			HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
Action	TOP SWING		✓	✓	-	-	✓	✓
	Down swing		-	-	✓	✓	-	-
	SIDE SWING		-	-	-	-	-	-
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-
		31.8	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	-
		34.9	✓	-	✓	-	✓	-
	E-type	With bottom bracket plate	-	-	-	-	-	✓
		Without bottom bracket plate	-	✓	-	-	-	✓
	Direct mount		-	-	-	✓	-	-
Cable route type	Dual-pull		✓	✓	✓	✓	✓	✓
	Top-pull exclusive		-	-	✓	✓	-	-
	Down-pull exclusive		-	-	-	-	-	-
	Front-pull		-	-	-	-	-	-
Chain line (mm)			48.8	48.8	48.8	48.8	50	50
Chainstay angle (deg.)			66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			38-44T	38-44T	38-44T	38-44T	44T, 48T	44T
Total capacity			14T	14T	14T	14T	22T	22T
Applicable top-mid tooth difference			-	-	-	-	12T	12T
Multi access cable fixing screw			✓	✓	-	-	-	-
Angled stroke adjust screw			✓	✓	✓	✓	✓	✓
Angled clamp band design			✓	-	✓	-	✓	-
Link bushings			2	2	8	8	2	2
Front clamp band	Material		Aluminum	-	Aluminum	-	Aluminum	-
	Finish		Painted	-	Painted	-	Painted	-
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	-	Stainless steel	-	Stainless steel	-
	Finish		-	-	-	-	-	-
Bottom bracket plate	Material		-	-	-	-	-	Aluminum
	Finish		-	-	-	-	-	Painted
Outer link	Material		Steel	Steel	Aluminum	Aluminum	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Average weight (g) (band type: L size, direct type w/ screw)			136	127	155	146	152	166
Note			* Outer casing stopper integrated design.				* Outer casing stopper integrated design.	

Front Derailleur

Series			DEORE XT	DEORE XT	DEORE XT	SLX	SLX	DEORE
Model no.			FD-M771	FD-M771-D	FD-M772A	FD-M660	FD-M661	FD-M6000-H
Color	1		Series color	Series color	Series color	Series color	Series color	Series black
	2		-	-	-	-	-	-
Front speeds			3	3	3	3	3	3
Rear speeds			9	9	9	9	9	10
Compatible chain			HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG-X 10-speed
Action	TOP SWING		-	-	✓	✓	-	-
	Down swing		✓	✓	-	-	✓	-
	SIDE SWING		-	-	-	-	-	✓
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)
		31.8	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	✓	-	✓	✓	✓	✓
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount		-	✓	-	-	-	-
Cable route type	Dual-pull		✓	✓	✓ (w/ M size adapter)	✓	✓	-
	Top-pull exclusive		-	-	✓	-	-	-
	Down-pull exclusive		-	-	-	-	-	-
	Front-pull		-	-	-	-	-	✓
Chain line (mm)			50	50	50	50	50	50
Chainstay angle (deg.)			66-69	66-69	63-66	66-69	66-69	66-69
Top gear teeth			44T	44T	44T, 48T	44T	44T	40-42T
Total capacity			22T	22T	22T	22T	22T	18T
Applicable top-mid tooth difference			12T	12T	12T	12T	12T	10T
Multi access cable fixing screw			-	-	-	-	-	-
Angled stroke adjust screw			✓	✓	-	✓	✓	✓
Angled clamp band design			✓	-	✓	✓	✓	✓
Link bushings			8	8	2	2	8	4
Front clamp band	Material		Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	-	Painted	Painted	Painted	Painted
Rear clamp band, base bracket	Material		Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	-	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Aluminum	Aluminum	Steel	Steel	Aluminum	GFRP+Steel
	Finish		Painted	Painted	Painted	Painted	Painted	-
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel
	Finish		-	-	-	-	-	Black
Average weight (g) (band type: L size, direct type w/ screw)			155	147	160	155	158	-
Note						* Outer casing stopper integrated design.		

Front Derailleur

Series			DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.			FD-M6000-M	FD-M6000-L	FD-M6000-D	FD-M6000-E	FD-M6025-H	FD-M6025-L
Color	1		Series black	Series black	Series black	Series black	Series black	Series black
	2		-	-	-	-	-	-
Front speeds			3	3	3	3	2	2
Rear speeds			10	10	10	10	10	10
Compatible chain			HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Action	TOP SWING		-	-	-	-	-	✓
	Down swing		-	-	-	-	✓	-
	SIDE SWING		✓	✓	✓	✓	-	-
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	✓ (w/ S size adapter)	-	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	-	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	✓	✓	-	-	✓	✓
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	✓	-	-
	Direct mount		-	-	✓	-	-	-
Cable route type	Dual-pull		-	-	-	-	✓	-
	Top-pull exclusive		-	-	-	-	-	-
	Down-pull exclusive		-	-	-	-	-	✓
	Front-pull		✓	✓	✓	✓	-	-
Chain line (mm)			50	50	50	50	48.8	48.8
Chainstay angle (deg.)			66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			40-42T	40-42T	40-42T	40-42T	34-38T	34-38T
Total capacity			18T	18T	18T	18T	10T	10T
Applicable top-mid tooth difference			10T	10T	10T	10T	-	-
Multi access cable fixing screw			-	-	-	-	-	-
Angled stroke adjust screw			✓	✓	✓	✓	✓	✓
Angled clamp band design			✓	✓	-	-	✓	✓
Link bushings			4	4	4	4	8	2
Front clamp band	Material		Aluminum	Aluminum	-	-	Aluminum	Aluminum
	Finish		Painted	Painted	-	-	Painted	Painted
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	Stainless steel	-	-	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	Aluminum	Steel
	Finish		-	-	-	-	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Stainless steel	Stainless steel
	Finish		Black	Black	Black	Black	-	-
Average weight (g) (band type: L size, direct type w/ screw)			-	-	-	-	-	-
Note								

Front Derailleur

Series			DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.			FD-M6025-D	FD-M5100-D	FD-M5100-E	FD-M5100-M	FD-M4100-D	FD-M4100-E
Color	1		Series black	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Front speeds			2	2	2	2	2	2
Rear speeds			10	11	11	11	10	10
Compatible chain			HG-X 10-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG-X 10-speed	HG-X 10-speed
Action	TOP SWING		-	-	-	-	-	-
	Down swing		✓	-	-	-	-	-
	SIDE SWING		-	✓	✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	-	-	-	- *	-	-
		31.8	-	-	-	✓ (w/ M size adapter)	-	-
		34.9	-	-	-	✓	-	-
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	✓	-	-	✓
	Direct mount		✓	✓	-	-	✓	-
Cable route type	Dual-pull		✓	-	-	-	-	-
	Top-pull exclusive		-	-	-	-	-	-
	Down-pull exclusive		-	-	-	-	-	-
	Front-pull		-	✓	✓	✓	✓	✓
Chain line (mm)			48.8/51.8 *	48.8/51.8	48.8/51.8	48.8/51.8	48.8/51.8	48.8/51.8
Chainstay angle (deg.)			66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			34-38T	36T	36T	36T	36T	36T
Total capacity			10T	10T	10T	10T	10T	10T
Applicable top-mid tooth difference			-	-	-	-	-	-
Multi access cable fixing screw			-	-	-	-	-	-
Angled stroke adjust screw			✓	✓	✓	✓	✓	✓
Angled clamp band design			-	-	-	✓	-	-
Link bushings			8	4	4	4	4	4
Front clamp band	Material		-	-	-	Aluminum	-	-
	Finish		-	-	-	Painted	-	-
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	-	-	Stainless steel	-	-
	Finish		-	-	-	-	-	-
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Aluminum	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel
	Finish		Painted	-	-	-	-	-
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	Black	Black	Black	Black	Black
Average weight (g) (band type: L size, direct type w/ screw)			-	-	-	-	-	-
Note			* Compatible with the special crankset which chain line is 3 mm outboard.			* S-size adapter is available in OTC package only.		

Front Derailleur

Series			DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.			FD-M4100-M	FD-M617-H	FD-M617-L	FD-M617-D	FD-M617-E	FD-M618-E
Color	1		Series color	Black	Black	Black	Black	Black
	2		-	-	-	-	-	-
Front speeds			2	2	2	2	2	2
Rear speeds			10	10	10	10	10	10
Compatible chain			HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Action	TOP SWING		-	-	-	-	-	✓
	Down swing		-	-	-	-	-	-
	SIDE SWING		✓	✓	✓	✓	✓	-
Mount	Clamp band (mm)	28.6	- *	✓ (w/ S size adapter)	✓ (w/ S size adapter)	-	-	-
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	-	-	-
		34.9	✓	✓	✓	-	-	-
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	✓	✓
	Direct mount		-	-	-	✓	-	-
Cable route type	Dual-pull		-	-	-	-	-	-
	Top-pull exclusive		-	-	-	-	-	-
	Down-pull exclusive		-	-	-	-	-	✓
	Front-pull		✓	✓	✓	✓	✓	-
Chain line (mm)			48.8/51.8	48.8	48.8	48.8	48.8	48.8 *
Chainstay angle (deg.)			66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			36T	36-38T	36-38T	36-38T	36-38T	36-38T
Total capacity			10T	14T	14T	14T	14T	14T
Applicable top-mid tooth difference			-	-	-	-	-	-
Multi access cable fixing screw			-	-	-	-	-	-
Angled stroke adjust screw			✓	✓	✓	✓	✓	✓
Angled clamp band design			✓	✓	✓	-	-	-
Link bushings			4	4	4	4	4	2
Front clamp band	Material		Aluminum	Aluminum	Aluminum	-	-	-
	Finish		Painted	Painted	Painted	-	-	-
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	Stainless steel	Stainless steel	-	-	Stainless steel
	Finish			-	-	-	-	-
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	Steel
	Finish		-	-	-	-	-	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Pearl bright	Pearl bright	Pearl bright	Pearl bright	Pearl bright
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Stainless steel	Steel	Steel	Steel	Steel	Stainless steel
	Finish		Black	Black	Black	Black	Black	-
Average weight (g) (band type: L size, direct type w/ screw)			-	-	-	-	-	-
Note			* S-size adapter is available in OTC package only.			* Compatible with the special crankset which chain line is 3 mm outboard.	* Compatible with the special crankset which chain line is 3 mm outboard.	* Compatible with the special crankset which chain line is 3 mm outboard.

Front Derailleur

Series			DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.			FD-M610-B	FD-M610-E	FD-M611-B	FD-M611-D	FD-M615-B	FD-M615-E2
Color	1		Black	Black	Black	Black	Black	Black
	2		-	-	-	-	-	-
Front speeds			3	3	3	3	2	2
Rear speeds			10	10	10	10	10	10
Compatible chain			HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Action	TOP SWING		✓	✓	-	-	✓	✓
	Down swing		-	-	✓	✓	-	-
	SIDE SWING		-	-	-	-	-	-
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-
		31.8	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	-
		34.9	✓	-	✓	-	✓	-
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	✓	-	-	-	✓
	Direct mount		-	-	-	✓	-	-
Cable route type	Dual-pull		✓	✓	✓	✓	✓	✓
	Top-pull exclusive		-	-	✓	✓	-	-
	Down-pull exclusive		-	-	-	-	-	-
	Front-pull		-	-	-	-	-	-
Chain line (mm)			50	50	50	50	48.8	48.8
Chainstay angle (deg.)			66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			40-42T	40-42T	40-42T	40-42T	38-44T	38-40T
Total capacity			18T	18T	18T	18T	14T	14T
Applicable top-mid tooth difference			10T	10T	10T	10T	-	-
Multi access cable fixing screw			✓	✓	-	-	✓	✓
Angled stroke adjust screw			✓	✓	✓	✓	✓	✓
Angled clamp band design			✓	-	✓	-	✓	-
Link bushings			2	2	8	8	2	2
Front clamp band	Material		Aluminum	-	Aluminum	-	Aluminum	-
	Finish		Painted	-	Painted	-	Painted	-
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	-	Stainless steel	-	Stainless steel	-
	Finish		-	-	-	-	-	-
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Steel	Steel	Aluminum	Aluminum	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Pearl bright	Pearl bright	Pearl bright	Pearl bright	Pearl bright	Pearl bright
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Average weight (g) (band type: L size, direct type w/ screw)			-	-	-	-	-	-
Note								

Front Derailleur

Series			DEORE	DEORE
Model no.			FD-M616-B	FD-M616-D
Color	1		Black	Black
	2		-	-
Front speeds			2	2
Rear speeds			10	10
Compatible chain			HG-X 10-speed	HG-X 10-speed
Action	TOP SWING		-	-
	Down swing		✓	✓
	SIDE SWING		-	-
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	-
		31.8	✓ (w/ M size adapter)	-
		34.9	✓	-
	E-type	With bottom bracket plate	-	-
		Without bottom bracket plate	-	-
	Direct mount		-	✓
Cable route type	Dual-pull		✓	✓
	Top-pull exclusive		✓	✓
	Down-pull exclusive		-	-
	Front-pull		-	-
Chain line (mm)			48.8	48.8
Chainstay angle (deg.)			66-69	66-69
Top gear teeth			38-44T	38-44T
Total capacity			14T	14T
Applicable top-mid tooth difference			-	-
Multi access cable fixing screw			-	-
Angled stroke adjust screw			✓	✓
Angled clamp band design			✓	-
Link bushings			8	8
Front clamp band	Material		Aluminum	-
	Finish		Painted	-
Rear clamp band, base bracket	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Clamp screw	Material		Stainless steel	-
	Finish		-	-
Bottom bracket plate	Material		-	-
	Finish		-	-
Outer link	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Inner link	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Chain guide	Material		Steel	Steel
	Finish		Pearl bright	Pearl bright
Cable fixing screw	Material		Stainless steel	Stainless steel
	Finish		-	-
Stroke adjusting screw	Material		Stainless steel	Stainless steel
	Finish		-	-
Average weight (g) (band type: L size, direct type w/ screw)			-	-
Note				

Brake (Hydraulic Disc Brake)

Series		XTR	XTR	XTR	SAINT	DEORE XT	DEORE XT
Model no.		BR-M9100	BR-M9110	BR-M9120	BR-M820	BR-M8100	BR-M8110
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SS	SM-BH90-SS	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SS
Hose joint		Straight	Straight	Banjo	Banjo	Banjo	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	White	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		-	✓	✓	✓	✓	✓
Pad	Standard 1	K05Ti-RX Resin (w/o fin)	K05Ti-RX Resin (w/o fin)	N03A-RF Resin (w/ fin)	H03A-RF Resin (w/ fin)	G05A-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)
	Standard 2	K04Ti-MX Metal (w/ o fin)	K04Ti-MX Metal (w/ o fin)	N04C-MF Metal (w/ fin)	H03C-MF Metal (w/ fin)	G04S-MX Metal (w/o fin)	K04S-MX Metal (w/o fin)
	Option 1	-	-	-	-	J05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)
	Option 2	-	-	-	-	J04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)
Fixing screw spec for rear mount	10 mm mount	-	-	-	-	-	-
	15 mm mount	-	-	-	-	-	-
	20 mm mount	-	✓	-	-	-	✓
	25 mm mount	-	✓	-	-	-	✓
	30 mm mount	-	✓	-	-	-	✓
	35 mm mount	-	-	-	-	-	-
Recommended brake lever		BL-M9100	BL-M9100	BL-M9120	BL-M820	BL-M8100 BL-T8100	BL-M8100
Recommended disc brake rotor		RT-MT900	RT-MT900	RT-MT900	SM-RT99, SM-RT86	RT-MT800	RT-MT800
Compatible rotor size	140 mm (SS)	✓	✓	✓	✓	✓	✓
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	✓	-	✓	✓	✓	✓
	203 mm (L)	-	-	✓	✓	✓	-
	220 mm (LL)	-	-	✓	✓	✓	-
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓	-	✓	✓	✓
Mount type		Post type	Flat mount	Post type	Post type	Post type	Flat mount
Piston		2	2	4	4	2	2
Piston material		Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Caliper	MONO-BODY	✓	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Ti	Steel	Ti	Steel	Steel	Steel
	Tool size	** 4 mm	4 mm	** 4 mm	5 mm	5 mm	4 mm
	Anti loosen method	Wiring	Screw fix pin+Snap ring	Wiring	Snap ring	Snap ring	Screw fix pin+Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		92	108	131	153	121	126
Average weight (g) (kit for front 800 mm, w/ pad (Standard 1), w/o adapter, w/ 2 screws)		193	203	262	303	269	260
Note		** Titanium	For rear only. 140 mm disc brake rotor direct mount	** Titanium			For rear only.

Brake (Hydraulic Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	SLX	SLX	SLX
Model no.		BR-M8120	BR-M8000	BR-M8020	BR-M7100	BR-M7110	BR-M7120
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SBM	SM-BH90-SB	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SS	SM-BH90-SBM
Hose joint		Banjo	Banjo	Banjo	Banjo	Straight	Banjo
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
J-Kit spec (for OEM)		✓	-	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	✓	✓	✓	✓	✓
Pad	Standard 1	N03A-RF Resin (w/ fin)	G05A-RX Resin (w/o fin)	H03A-RF Resin (w/ fin)	G05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)	D03S-RX Resin (w/o fin)
	Standard 2	N04C-MF Metal (w/ fin)	J05A-RF Resin (w/ fin)	-	G04S-MX Metal (w/o fin)	K04S-MX Metal (w/o fin)	N03A-RF Resin (w/ fin)
	Option 1	D03S-RX Resin (w/o fin)	G04S-MX Metal (w/o fin)	D03S-RX Resin (w/o fin)	J05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)	D02S-MX Metal (w/o fin)
	Option 2	D02S-MX Metal (w/o fin)	J04C-MF Metal (w/ fin)	H03C-MF Metal (w/ fin)	J04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)	N04C-MF Metal (w/ fin)
Fixing screw spec for rear mount	10 mm mount	-	-	-	-	-	-
	15 mm mount	-	-	-	-	-	-
	20 mm mount	-	-	-	-	✓	-
	25 mm mount	-	-	-	-	✓	-
	30 mm mount	-	-	-	-	✓	-
	35 mm mount	-	-	-	-	-	-
Recommended brake lever		BL-M8100 BL-T8100	BL-M8000 BL-T8000	BL-M8000	BL-M7100	BL-M7100	BL-M7100
Recommended disc brake rotor		RT-MT800	RT-MT800, SM-RT86	RT-MT800, SM-RT99, RT-EM810, RT-EM910	SM-RT70	SM-RT70	SM-RT70
Compatible rotor size	140 mm (SS)	✓	✓	✓	✓	✓	✓
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	✓	✓	✓	✓	✓	✓
	203 mm (L)	✓	✓	✓	✓	-	✓
	220 mm (LL)	✓	✓	✓	✓	-	✓
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		-	✓	✓	✓	✓	-
Mount type		Post type	Post type	Post type	Post type	Flat mount	Post type
Piston		4	2	4	2	2	4
Piston material		Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	5 mm	5 mm	5 mm	5 mm	4 mm	5 mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	Snap ring	Screw fix pin+Snap ring	Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		141	118	153	121	125	142
Average weight (g) (kit for front 800 mm, w/ pad (Standard 1), w/o adapter, w/ 2 screws)		289	266	303	271	262	293
Note						For rear only.	

Brake (Hydraulic Disc Brake)

Series		DEORE	DEORE	DEORE	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-M6100	BR-M6120	BR-M6000	BR-MT520	BR-MT500	BR-MT420
Color	1	Series color	Series color	Series black	Black	Black	Black
	2	Black (SHIMANO logo) ***	Black (SHIMANO logo) ***	Series silver *	-	-	-
	3	-	-	Black (SHIMANO logo) ***	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SS	SM-BH90-SS	SM-BH90-SS	SM-BH90-SS	SM-BH59-JK-SS	SM-BH90-SS
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	-	✓	-	-	-
Pad	Standard 1	G05S-RX Resin (w/o fin)	D03S-RX Resin (w/o fin)	G05A-RX Resin (w/o fin)	D03S-RX Resin (w/o fin)	B05S-RX Resin (w/o fin)	D03S-RX Resin (w/o fin)
	Standard 2	J05A-RF Resin (w/ fin)	-	J05A-RF Resin (w/ fin)	D02S-MX Metal (w/o fin)	-	D02S-MX Metal (w/o fin)
	Option 1	G04S-MX Metal (w/o fin)	D02S-MX Metal (w/o fin)	G04S-MX Metal (w/o fin)	-	-	-
	Option 2	-	-	-	-	-	-
Fixing screw spec for rear mount	10 mm mount	-	-	-	-	-	-
	15 mm mount	-	-	-	-	-	-
	20 mm mount	-	-	-	-	-	-
	25 mm mount	-	-	-	-	-	-
	30 mm mount	-	-	-	-	-	-
	35 mm mount	-	-	-	-	-	-
Recommended brake lever		BL-M6100	BL-M6100	BL-M6100 BL-MT501 BL-T6000	BL-MT501	BL-MT500	BL-MT401, BL-MT402-3A
Recommended disc brake rotor		SM-RT54 *, SM-RT56 *, SM-RT64, SM-RT66	SM-RT54 *, SM-RT56 *, SM-RT64, SM-RT66	SM-RT54 ****, SM-RT56 ****, SM-RT64, SM-RT66	SM-RT70	SM-RT54 *, SM-RT56 *	SM-RT30 *, SM-RT54 *, SM-RT56 *, SM-RT64
Compatible rotor size	140 mm (SS)	✓	✓	✓	✓	-	✓
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	✓	✓	✓	✓	✓	✓
	203 mm (L)	✓	✓	✓	✓	-	✓
	220 mm (LL)	✓	✓	-	✓	-	✓
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓	✓
Mount type		Post type	Post type	Post type	Post type	Post type	Post type
Piston		2	4	2	4	2	4
Piston material		Resin	Ceramic	Resin	Ceramic	Resin	Resin
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	5 mm	5 mm	5 mm	5 mm	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		Split pin (stainless steel)	Split pin (stainless steel)	Split pin (stainless steel)	Split pin	Split pin (stainless steel)	Split pin
Average weight (g)		-	-	-	-	-	-
Average weight (g) (kit for front 800 mm, w/ pad (Standard 1), w/o adapter, w/ 2 screws)		-	-	-	-	-	-
Note		*: Only compatible with resin pad	*: Only compatible with resin pad	J-Kit spec available * T6000 kit only ** M6000 kit only *** Both M6000 kit and T6000 kit ***** Only compatible with resin pad		* Only compatible with resin pad	* Only compatible with resin pad

Brake (Hydraulic Disc Brake)

Series		SHIMANO	SHIMANO
Model no.		BR-MT410	BR-MT200
Color	1	Black (SHIMANO logo)	Black
	2	-	-
	3	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH59-JK-SS	SM-BH59-JK-SS
Hose joint		Straight	Straight
Brake hose color (kit)	1	Black	Black
	2	-	-
J-Kit spec (for OEM)		✓	✓
ICE TECHNOLOGIES pad compatible caliper		-	-
Pad	Standard 1	B05S-RX Resin (w/o fin)	B05S-RX Resin (w/o fin)
	Standard 2	-	-
	Option 1	-	-
	Option 2	-	-
Fixing screw spec for rear mount	10 mm mount	-	-
	15 mm mount	-	-
	20 mm mount	-	-
	25 mm mount	-	-
	30 mm mount	-	-
	35 mm mount	-	-
Recommended brake lever		BL-M4100, BL-MT401, BL-MT402-3A	BL-MT201 BL-MT200
Recommended disc brake rotor		SM-RT30 *, SM-RT54 *, SM-RT56 *	SM-RT10 *, SM-RT26 *
Compatible rotor size	140 mm (SS)	✓	✓
	160 mm (S)	✓	✓
	180 mm (M)	✓	✓
	203 mm (L)	✓	-
	220 mm (LL)	-	-
Oil		SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓
Mount type		Post type	Post type
Piston		2	2
Piston material		Resin	Resin
Caliper	MONO-BODY	-	-
	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Caliper fixing screw	Material	Steel	Steel
	Tool size	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring
Pad mount		Split pin (stainless steel)	Split pin
Average weight (g)		-	-
Average weight (g) (kit for front 800 mm, w/ pad (Standard 1), w/o adapter, w/ 2 screws)		-	-
Note		* Only compatible with resin pad	* Only compatible with resin pad

Brake (Mechanical Disc Brake)

Series		SHIMANO
Model no.		BR-M375
Color	1	Black
	2	-
	3	-
Brake type		Mechanical disc brake
ICE TECHNOLOGIES pad compatible caliper		-
Pad	Standard 1	B03S-RX Resin (w/o fin)
	Standard 2	-
	Option 1	-
	Option 2	-
Recommended brake lever		V-BRAKE BL (1.5-2.5 finger)
Recommended disc brake rotor		SM-RT10, SM-RT30, SM-RT26
Mount type		Post type
Piston		1
Piston material		-
Caliper	MONO-BODY	-
	Material	Aluminum
	Finish	Painted
Caliper fixing screw	Material	Steel
	Tool size	5 mm
	Anti loosen method	Snap ring
Pad mount		Split pin
Average weight (g)		-
Note		

Brake (V-BRAKE)

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

Crankset

Series		XTR	XTR	XTR	XTR	XTR	XTR
Model no.		FC-M9100-2	FC-M9120-B2	FC-M9100-1	FC-M9120-1	FC-M9125-1	FC-M9130-1
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12 (Front double)	12 (Front double)	12	12	12	12
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
Chain line (mm)		48.8	51.8	52	52	55	56.5
O.L.D.	Thru (mm)	142	148	142, 148	142, 148	148	157
	QR/Nut (mm)	135	141	135, 141	135, 141		-
P.C.D. (mm)		Direct	Direct	Direct	Direct	Direct	Direct
Spider/gear arms		4	4	4	4	4	4
Chainring combination		38-28T	38-28T	30T, 32T, 34T, 36T, 38T	30T, 32T, 34T, 36T, 38T	32T, 34T	30T, 32T, 34T
Q-factor (mm)		162	168	162	168	174	171
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	✓	✓	✓	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	✓	✓	✓	✓
2-PIECE CRANKSET		-	-	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A
Axle length of BB-UN/ES (mm)		-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	Aluminum	-	-	-	-
	Finish	Plated	Plated	-	-	-	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing screw	Material	Aluminum	Aluminum	-	-	-	-
	Finish	Anodized	Anodized	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		597	616	528 (30T) 531 (32T) 544 (34T) 543 (36T) 551 (38T)	545 (30T) 548 (32T) 562 (34T) 561 (36T) 569 (38T)	573 (32T) 587 (34T)	560 (30T) 563 (32T) 577 (34T)
Note		-	-	-	-		

Crankset

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX
Model no.		FC-M8100-2	FC-M8120-B2	FC-M8100-1	FC-M8120-1	FC-M8130-1	FC-M7100-2
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12 (Front double)	12 (Front double)	12	12	12	12 (Front double)
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
Chain line (mm)		48.8	51.8	52	55	56.5	48.8
O.L.D.	Thru (mm)	142	148	142, 148	148	157	142
	QR/Nut (mm)	135	141	135, 141	141	-	135
P.C.D. (mm)		Direct	Direct	Direct	Direct	Direct	Direct
Spider/gear arms		4	4	4	4	4	4
Chainring combination		36-26T	36-26T	28T, 30T, 32T, 34T, 36T	28T, 30T, 32T, 34T, 36T	28T, 30T, 32T, 34T	36-26T
Q-factor (mm)		172	178	172	178	181	172
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	✓	✓	✓	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	✓	✓	✓	✓	✓	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	✓	✓	✓	✓
2-PIECE CRANKSET		-	-	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-MT801	BB-MT801	BB-MT801	BB-MT801	BB-MT801	BB-MT801
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA
Axle length of BB-UN/ES (mm)		-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Steel (teeth), CFRP (body), Aluminum (arm)	Steel (teeth), CFRP (body), Aluminum (arm)	Steel (teeth), CFRP (body), Aluminum (arm)	Aluminum
	Finish	Anodized	Anodized	Painted (teeth), Anodized (arm)	Painted (teeth), Anodized (arm)	Painted (teeth), Anodized (arm)	Painted
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Steel	Steel	-	-	-	Steel
	Finish	Painted	Painted	-	-	-	Painted
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing screw	Material	Aluminum	Aluminum	-	-	-	Aluminum
	Finish	Anodized	Anodized	-	-	-	Anodized
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		650	662	608 (28T) 622 (30T) 620 (32T) 633 (34T) 651 (36T)	616 (28T) 630 (30T) 628 (32T) 642 (34T) 660 (36T)	624 (28T) 639 (30T) 636 (32T) 650 (34T) 668 (36T)	673
Note							

Crankset

Series		SLX	SLX	SLX	SLX	DEORE	DEORE
Model no.		FC-M7120-B2	FC-M7100-1	FC-M7120-1	FC-M7130-1	FC-M6100-1	FC-M6120-1
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12 (Front double)	12	12	12	12	12
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
Chain line (mm)		51.8	52	55	56.5	52	55
O.L.D.	Thru (mm)	148	142, 148	148	157	142, 148	148
	QR/Nut (mm)	141	135, 141	141	-	135, 141	141
P.C.D. (mm)		Direct	Direct	Direct	Direct	Direct	Direct
Spider/gear arms		4	4	4	4	4	4
Chainring combination		36-26T	30T, 32T, 34T	30T, 32T, 34T	30T, 32T, 34T	30T, 32T	30T, 32T
Q-factor (mm)		178	172	178	181	172	178
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	✓	✓	✓	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	✓	✓	-	-
2-PIECE CRANKSET		-	-	-	-	✓	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-MT801	BB-MT801	BB-MT801	BB-MT801	BB-MT501	BB-MT501
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/ES (mm)		-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Steel (teeth), GFRP (body), Aluminum(arm)	Steel (teeth), GFRP (body), Aluminum(arm)	Steel (teeth), GFRP (body), Aluminum(arm)	Steel (teeth), GFRP (body), Aluminum(arm)	Steel (teeth), GFRP (body), Aluminum(arm)
	Finish	Painted	Plated (teeth), Painted (body)	Plated (teeth), Painted (body)	Plated (teeth), Painted (body)	Painted (teeth), Painted (arm)	Painted (teeth), Painted (arm)
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Steel	-	-	-	-	-
	Finish	Painted	-	-	-	-	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing screw	Material	Stainless steel	-	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		684	634 (30T) 631 (32T) 646 (34T)	641 (30T) 638 (32T) 653 (34T)	650 (30T) 647 (32T) 662 (34T)	-	-
Note							

Crankset

Series		DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-M6130-1	FC-MT610-2	FC-MT610-B2	FC-MT510-1	FC-MT511-1	FC-MT512-1
Color	1	Series color	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
Rear speeds		12	12	12	12	12	12
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
Chain line (mm)		56.5	48.8	51.8	52	52	55
O.L.D.	Thru (mm)	157	142	148	142, 148	142, 148	148
	QR/Nut (mm)	-	135	141	135, 141	135, 141	141
P.C.D. (mm)		Direct	Direct	Direct	96	96	96
Spider/gear arms		4	4	4	4	4	4
Chainring combination		30T, 32T	36-26T	36-26T	30T, 32T, 34T	30T, 32T	30T, 32T
Q-factor (mm)		181	172.9	178.9	177	178.5	178.5
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	-	-	-	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		✓	✓	✓	✓	✓	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-MT501	BB-MT501	BB-MT501	BB-MT501	BB-MT501	BB-MT501
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/ES (mm)		-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	Aluminum	Aluminum	Aluminum	-	-
	Finish	-	Painted	Painted	Painted	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Steel (teeth), GFRP (body), Aluminum(arm)	Aluminum	Aluminum	Steel (30T, 32T), Steel+GF composite (34T)	Steel	Steel
	Finish	Painted (teeth), Painted (arm)	Painted	Painted	Painted (30T, 32T), Plated (34T, teeth)	Painted	Painted
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	-	Steel	Steel	-	-	-
	Finish	-	Painted	Painted	-	-	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Inner ring fixing screw	Material	-	Stainless steel	Stainless steel	-	-	-
	Finish	-	Painted	Painted	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		-	-	-	-	-	-
Note							

Crankset

Series		XTR	XTR	DEORE XT	DEORE XT	DEORE	DEORE
Model no.		FC-M9020-B1	FC-M9020-B2	FC-M8000-B1	FC-M8000-B2	FC-M5100-1	FC-M5100-2
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		11	11	11	11	11/10	11
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG 11-speed, HG-X 10-speed	LINKGLIDE, HG 11-speed
Chain line (mm)		53.4	51.8	53.4	51.8	52	48.8
O.L.D.	Thru (mm)	148	148	148	148	142, 148	142
	QR/Nut (mm)	141	141	141	141	135, 141	135
P.C.D. (mm)		96	96/64	96	96/64	96	96/64
Spider/gear arms		4	4	4	4	4	4
Chainring combination		30T, 32T	34-24T, 36-26T	30T, 32T (SM-CRM81)	34-24T, 36-26T	30T, 32T	36-26T
Q-factor (mm)		174	174	176	176	178.5	178.5
Crank arm length (mm)	160	-	-	-	-	-	-
	165	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	- (30T), ✓ (32T)	- (34-24T), ✓ (36-26T)	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	✓	✓	-	-
2-PIECE CRANKSET		-	-	-	-	✓	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	✓	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB93	SM-BB93	BB-MT801	BB-MT801	BB-MT501	BB-MT501
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	SM-BB94-41A	SM-BB94-41A	BB-MT800-PA	BB-MT800-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/ES (mm)		-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	Aluminum	Aluminum	Aluminum	-	-
	Finish	-	Anodized	Painted	Painted	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Ti + Aluminum	Steel +CF composite	Aluminum +CF composite	Steel	Steel
	Finish	Anodized	-	Plated (teeth), Painted (body)	Plated (teeth), Painted (body)	Painted	Painted
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	-	Aluminum	-	Aluminum	-	Steel
	Finish	-	Plated	-	Plated	-	Painted
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Stainless steel	Stainless steel
	Finish	-	Anodized	Anodized	Anodized	Painted	Painted
Inner ring fixing screw	Material	-	Aluminum	-	Stainless steel	-	Stainless steel
	Finish	-	Anodized	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		593 (30T) 601 (32T)	645 (34-24T) 664 (36-26T)	681 (30T) 693 (32T)	699 (34-24T) 722 (36-26T)	-	-
Note		- Chain line 3 mm outboard, - It requires special dimension of frame which cassette position and front derailleur mount position are 3 mm outboard - Only E type and D type front derailleur are compatible with the special frame.		- Chain line 3 mm outboard. - It requires special dimension of frame which cassette position and front derailleur mount position are 3 mm outboard., - Only E type and D type front derailleur are compatible with the special frame.	- Chain line 3 mm outboard, - It requires special dimension of frame which cassette position and front derailleur mount position are 3 mm outboard., - Only E type and D type front derailleur are compatible with the special frame.		

Crankset

Series		DEORE	SHIMANO	SHIMANO	SAINT	SAINT	DEORE XT
Model no.		FC-M5100-B2	FC-MT700-B2	FC-MT600-2	FC-M820	FC-M825	FC-M785
Color	1	Series color	Black	Black	Series color	Series color	Black
	2	-	-	-	-	-	Silver
Rear speeds		11	11	11	10	10	10
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Chain line (mm)		51.8	51.8	48.8	50.4	57.9	48.8
O.L.D.	Thru (mm)	148	148	142	142	150, 157	142
	QR/Nut (mm)	141	141	135	135	-	135
P.C.D. (mm)		96/64	96/64	96/64	104	104	104/64
Spider/gear arms		4	4	4	4	4	4
Chainring combination		36-26T	34-24T, 36-26T	36-26T	34T, 36T, 38T (SM-CR82)	34T, 36T, 38T (SM-CR82)	38-24T, 38-26T, 40-28T
Q-factor (mm)		178.5	175	177	178	193	175
Crank arm length (mm)	160	-	-	-	-	-	-
	165	-	-	-	✓	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	✓
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	✓	-	✓	✓	✓
2-PIECE CRANKSET		✓	-	✓	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-MT501	BB-MT801	BB-MT801	SM-BB80	SM-BB80	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	BB-MT500-PA	BB-MT800-PA	BB-MT800-PA	SM-BB71-41A	SM-BB71-41C	SM-BB71-41A
Axle length of BB-UN/ES (mm)		-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	-	✓
	73	✓	✓	✓	✓	-	✓
	83	-	-	-	-	✓	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	Painted	Painted	Painted	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Steel	Aluminum +GF composite	Aluminum +GF composite	-	-	Aluminum
	Finish	Painted	Plated (teeth)	Anodized	-	-	Anodized
Middle ring	Material	-	-	-	Aluminum	Aluminum	-
	Finish	-	-	-	Anodized	Anodized	-
Inner ring	Material	Steel	Aluminum	Steel	-	-	Aluminum
	Finish	Painted	Plated	Painted	-	-	Plated
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Aluminum	Aluminum	Aluminum
	Finish	Painted	-	-	Anodized	Anodized	Anodized
Inner ring fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	-	-	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		-	712.4 (34-24T) 738.9 (36-26T)	-	827 (34T) 837 (36T) 847 (38T)	838 (34T) 849 (36T) 858 (38T)	715.8 (38-24T) 717.6 (38-26T) 727.6 (40-28T)
Note						For 83 mm bottom bracket shell width	

Crankset

Series		ZEE	ZEE	DEORE	DEORE	DEORE	DEORE
Model no.		FC-M640	FC-M645	FC-M6000-2	FC-M4100-2	FC-M4100-B2	FC-M617
Color	1	Series color	Series color	Series black	Series color	Series color	Black
	2	-	-	-	-	-	Silver
Rear speeds		10	10	10	10	10	10
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Chain line (mm)		50.4	57.9	48.8	48.8	51.8	48.8
O.L.D.	Thru (mm)	142	150, 157	142	142	148	142
	QR/Nut (mm)	135	-	135	135	141	135
P.C.D. (mm)		104	104	96/64	96/64	96/64	104/64
Spider/gear arms		4	4	4	4	4	4
Chainring combination		34T, 36T, 38T (FC-M640/M645 chainring)	34T, 36T, 38T (FC-M640/M645 chainring)	34-24T, 36-26T, 38-28T	36-26T	36-26T	36-22T, 38-24T
Q-factor (mm)		174.7	189.7	176	178.5	178.5	176
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	✓	-	-	-	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	✓	-	-	-
2-PIECE CRANKSET		✓	✓	-	✓	✓	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-MT501	BB-MT501	BB-MT501	BB-MT501	BB-MT501	BB-MT501
	Threaded (E-type)	SM-BB52	SM-BB52	-	-	-	SM-BB52
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	SM-BB71-41A	SM-BB71-41C	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/ES (mm)		-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	-	✓	✓	✓	✓
	73	✓	-	✓	✓	✓	✓
	83	-	✓	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	Aluminum	-	-	Aluminum
	Finish	-	-	Painted	-	-	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	-	-	Aluminum +GF composite	Steel	Steel	Aluminum
	Finish	-	-	Anodized	Painted	Painted	Anodized
Middle ring	Material	Aluminum	Aluminum	-	-	-	-
	Finish	Anodized	Anodized	-	-	-	-
Inner ring	Material	-	-	Steel	Steel	Steel	Steel
	Finish	-	-	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	Painted	Painted	Painted	-
Inner ring fixing screw	Material	-	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		807 (34T) 817 (36T) 828 (38T)	837 (34T) 847 (36T) 858 (38T)	-	-	-	-
Note			For 83 mm bottom bracket shell width				

Crankset

Series		DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-M617-B2	FC-MT500-2	FC-MT500-3	FC-M627-B	FC-MT210-3	FC-MT210-2
Color	1	Black	Black	Black	Black	Black	Black
	2	Silver	-	-	-	-	-
Rear speeds		10	10	10	10	9	9
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
Chain line (mm)		51.8	48.8	50	51.8	50	48.8
O.L.D.	Thru (mm)	148	142	142	148	142	142
	QR/Nut (mm)	141	135	135	141	135	135
P.C.D. (mm)		104/64	96/64	96/64	104/64	Riveted	Riveted
Spider/gear arms		4	4	4	4	4	4
Chainring combination		36-22T	36-26T	40-30-22T	36-22T	40-30-22T, 44-32-22T	36-22T, 46-30T
Q-factor (mm)		176	177	177	176	176	176
Crank arm length (mm)	160	-	-	-	-	-	-
	165	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	✓	-	✓	- (36-22T), ✓ (46-30T)
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		✓	✓	✓	✓	✓	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-MT501	BB-MT501	BB-MT501	BB-MT501	BB-MT501	BB-MT501
	Threaded (E-type)	SM-BB52	-	SM-BB52	SM-BB52	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/ES (mm)		-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Finish	Painted	Painted	Painted	Painted	-	-
Spider arm cover	Material	-	-	-	-	Resin	Resin
	Finish	-	-	-	-	Resin	Resin
Outer ring	Material	Aluminum	Aluminum +GF composite	Aluminum	Aluminum	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Middle ring	Material	-	-	Steel	-	Steel	-
	Finish	-	-	Plated	-	Painted	-
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel *	Stainless steel	-	-
	Finish	-	-	-	-	-	-
Inner ring fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	✓	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		-	-	-	-	-	-
Note				* It is fixed on the threaded middle ring.	- Chain line 3 mm outboard - It requires special dimension of frame which cassette position and front derailleur mount position are 3 mm outboard - Only E type and D type front derailleur are compatible with the special frame	SHIMANO logo	-

Crankset

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-MT210-B2	FC-MT200	FC-MT101-2	FC-MT101-B2	FC-MT101	FC-M371
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
Rear speeds		9	9	9	9	9	9
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Chain line (mm)		51.8	50	48.8	51.8	50	50
O.L.D.	Thru (mm)	148	142	142	148	142	142
	QR/Nut (mm)	141	135	135	141	135	135
P.C.D. (mm)		Riveted	Riveted	Riveted	Riveted	Riveted	Riveted
Spider/gear arms		4	4	4	4	4	4
Chainring combination		36-22T	40-30-22T	36-22T	36-22T	40-30-22T, 44-32-22T	44-32-22T, 48-36-26T
Q-factor (mm)		176	176	179.4	179.4	179.2	180.5
Crank arm length (mm)	160	-	-	-	-	-	-
	165	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	✓	-	-	✓	✓
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		✓	✓	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	-	-	-	-
	OCTALINK	-	-	-	-	-	-
	Square	-	-	✓	✓	✓	✓
Recommended bottom bracket	Threaded (normal)	BB-MT501	BB-MT501	BB-UN101	BB-UN101	BB-UN101	BB-UN300
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	BB-UN300-K
	Press-Fit	BB-MT500-PA	BB-MT500-PA	-	-	-	-
Axle length of BB-UN/ES (mm)		-	-	LL123	LL123	LL123	LL123
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	-	-	-	-
	Finish	Plated	Plated	-	-	-	-
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	Resin	-	Resin	Resin	Resin	Resin
	Finish	Resin	-	Resin	Resin	Resin	Resin
Outer ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Middle ring	Material	-	Steel	-	-	Steel	Steel
	Finish	-	Painted	-	-	Painted	Painted
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring fixing screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓ (Option)	✓
Average weight (g) (175 mm, w/o bottom bracket)		-	-	-	-	-	-
Note		Chain line 3 mm outboard	SHIMANO logo	SHIMANO logo	SHIMANO logo Chain line 3 mm outboard	SHIMANO logo	SHIMANO logo

Crankset

Series		SHIMANO	SHIMANO	DXR
Model no.		FC-M315-2	FC-M315-B2	FC-MX71
Color	1	Black	Black	Series color
	2	-	-	-
Rear speeds		8/7	8/7	1
Compatible chain		HG 8/7/6-speed	HG 8/7/6-speed	Single speed
Chain line (mm)		48.8	51.8	44
O.L.D.	Thru (mm)	142	148	142
	QR/Nut (mm)	135	141	135
P.C.D. (mm)		Riveted	Riveted	104/64
Spider/gear arms		4	4	4
Chainring combination		36-22T	36-22T	34T, 38T, 41T, 42T, 43T, 44T, 46T
Q-factor (mm)		179.4	179.4	173
Crank arm length (mm)	160	-	-	-
	165	-	-	✓
	167.5	-	-	-
	170	✓	✓	✓
	172.5	-	-	-
	175	✓	✓	✓
	177.5	-	-	-
	180	-	-	✓
Optional chain guard	With bash guard	-	-	-
	With chain guard	-	-	-
	Without chain/bash guard	✓	✓	✓
HOLLOWTECH II		-	-	✓
2-PIECE CRANKSET		-	-	✓
HOLLOWTECH crank arm		-	-	✓
OCTALINK		-	-	-
HOLLOWGLIDE		-	-	-
Compatible bottom bracket type	Outboard	-	-	✓
	OCTALINK	-	-	-
	Square	✓	✓	-
Recommended bottom bracket	Threaded (normal)	BB-UN101	BB-UN101	-
	Threaded (E-type)	-	-	-
	Threaded (chain case)	-	-	-
	Press-Fit	-	-	-
Axle length of BB-UN/ES (mm)		LL123	LL123	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓
	73	✓	✓	✓
	83	-	-	-
Chain case compatible		-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized
Crank axle	Material	-	-	Steel
	Finish	-	-	Plated
Spider arm	Material	-	-	Aluminum
	Finish	-	-	Anodized
Spider arm cover	Material	Resin	Resin	-
	Finish	Resin	Resin	-
Outer ring	Material	Steel	Steel	Aluminum
	Finish	Painted	Painted	Anodized
Middle ring	Material	-	-	-
	Finish	-	-	-
Inner ring	Material	Steel	Steel	-
	Finish	Painted	Painted	-
Outer/middle ring fixing bolt	Material	-	-	Aluminum
	Finish	-	-	Anodized
Inner ring fixing screw	Material	-	-	-
	Finish	-	-	-
Stainless chain guard fixing screw		-	-	-
Crank fixing screw included		✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		-	-	765 (w/o chainring)
Note		SHIMANO logo	SHIMANO logo, Chain line 3 mm outboard	BMX racing 68 mm bottom bracket shell width

Chain device

Series		SHIMANO	SHIMANO	SHIMANO	SAINT
Model no.		SM-CD800-D	SM-CD800-E	SM-CD800-I	SM-CD50
Color		Black	Black	Black	Series color
Spec		Top guide	Top guide	Top guide	Chain guide w/ one guard
Chain guide	Compatible chain	HG 12-speed	HG 12-speed	HG 12-speed	10/9-speed
	Chain line (mm)	52	52	52/55/56.5	50.4/57.9
	Top gear teeth	30T, 32T, 34T, 36T, 38T	30T, 32T, 34T, 36T, 38T	30T, 32T, 34T, 36T, 38T	34T, 36T, 38T
	Assumed rear sprocket teeth	10-45T, 10-51T	10-45T, 10-51T	10-45T, 10-51T	11-23T, 36T
	Mount	D-type	E-type	ISCG05	ISCG03, ISCG05
	Rear suspension stroke	-	-	-	0 - 250 mm
	Chainstay angle (deg.)	63-75	63-75	63-75	-
	Back plate	Resin	Resin	Aluminum	Aluminum
	Chainguide	Resin	Resin	Resin	Aluminum
Bash guard	Compatible FC	-	-	FC-M820, FC-M825	FC-M825, FC-M820
Average weight (g)		28	25	33	-
Note					

Chainring

Series		XTR	DEORE XT	SLX	DEORE XT	SLX	SHIMANO
Model no.		SM-CRM95	SM-CRM85	SM-CRM75	SM-CRM81	SM-CRM70	SM-CR82
Color	1	Series color	Series color	Series color	Series color	Series color	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Gear speed		1	1	1	1	1	1
Rear speed	12-speed	✓	✓	✓	-	-	-
	11-speed	-	-	-	✓	✓	-
	10-speed	-	-	-	-	-	✓
	9-speed	-	-	-	-	-	-
	Single	-	-	-	-	-	-
DYNAMIC CHAIN ENGAGEMENT+		✓	✓	✓	✓	✓	-
Chainring teeth	46T	-	-	-	-	-	-
	44T	-	-	-	-	-	-
	43T	-	-	-	-	-	-
	42T	-	-	-	-	-	-
	41T	-	-	-	-	-	-
	40T	-	-	-	-	-	-
	38T	✓	-	-	-	-	✓
	36T	✓	✓	-	-	-	✓
	34T	✓	✓	✓	✓	✓	✓
	32T	✓	✓	✓	✓	✓	-
	30T	✓	✓	✓	✓	✓	-
	28T	-	✓	-	-	-	-
Chain guard type	Double	-	-	-	-	-	-
	Single	-	-	-	-	-	-
	w/o Chain guard	✓	✓	✓	✓	✓	✓*
P.C.D. (mm)		-	-	-	96	96	104
Chainring	Material	Aluminum	Steel (teeth)/CFRP (body)/Aluminum (arm)	Steel (teeth)/GFRP (body)/Aluminum(arm)	Steel (teeth)/CFRP (body)	Steel (teeth)/GFRP (body)	Aluminum
	Finish	Plated	Painted (teeth)/Anodized (arm)	Painted (teeth)/Painted (arm)	Plated (teeth)/Painted (body)	Plated (teeth)	Anodized
Note							* SM-CD50 bash guard is compatible

Chainring

Series		SHIMANO
Model no.		SM-CR80-A
Color	1	Black
	2	-
	3	-
Gear speed		1
Rear speed	12-speed	-
	11-speed	-
	10-speed	-
	9-speed	✓
	Single	✓
DYNAMIC CHAIN ENGAGEMENT+		-
Chainring teeth	46T	✓
	44T	✓
	43T	✓
	42T	✓
	41T	✓
	40T	-
	38T	✓
	36T	-
	34T	✓
	32T	-
	30T	-
	28T	-
Chain guard type	Double	-
	Single	-
	w/o Chain guard	✓
P.C.D. (mm)		104
Chainring	Material	Aluminum
	Finish	Anodized
Note		

Bottom Bracket (HOLLOWTECH II)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-BB93	SM-BB94-41A	SM-BB80	SM-BB71-41A	SM-BB71-41C	BB-MT801
HOLLOWTECH II bottom bracket	Threaded bottom bracket type	✓	-	✓	-	-	✓
	Press-Fit type	-	✓	-	✓	✓	-
Threaded bottom bracket shell width (mm)	68	✓	-	✓	-	-	✓
	73	✓	-	✓	-	-	✓
	83	-	-	✓	-	-	-
Press-Fit bottom bracket shell width (mm)	84.5	-	-	-	-	-	-
	89.5	-	✓	-	✓	-	-
	92	-	✓	-	✓	-	-
	104.5	-	-	-	-	✓	-
	107	-	-	-	-	✓	-
Small ball bearing		✓	✓	-	-	-	-
Adapter	Material	Aluminum	Resin	Aluminum	Resin	Resin	Aluminum
	Finish	Anodized	-	Anodized	-	-	Anodized
Spacer	Material	Aluminum	Resin	Resin	Resin	Resin	Aluminum
	Finish	Anodized	-	-	-	-	-
Average weight (g)		73	58	95 (68/73 mm) 96 (83 mm)	71	73	84
Note				Gold color for SAINT			

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BB-MT800	BB-MT800-PA	BB-MT800-PC	BB-MT501	BB-MT500	BB-MT500-PA
HOLLOWTECH II bottom bracket	Threaded bottom bracket type	✓	-	-	✓	✓	-
	Press-Fit type	-	✓	✓	-	-	✓
Threaded bottom bracket shell width (mm)	68	✓	-	-	✓	✓	-
	73	✓	-	-	✓	✓	-
	83	-	-	-	-	-	-
Press-Fit bottom bracket shell width (mm)	84.5	-	-	-	-	-	-
	89.5	-	✓	-	-	-	✓
	92	-	✓	-	-	-	✓
	104.5	-	-	✓	-	-	-
	107	-	-	✓	-	-	-
Small ball bearing		-	-	-	-	-	-
Adapter	Material	Aluminum	Resin	Resin	Aluminum	Aluminum	Resin
	Finish	Anodized	-	-	Anodized	Anodized	-
Spacer	Material	Aluminum	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Average weight (g)		83	69	71	-	-	-
Note							

Bottom Bracket (HOLLOWTECH II)

Series		SHIMANO
Model no.		SM-BB52
HOLLOWTECH II bottom bracket	Threaded bottom bracket type	✓
	Press-Fit type	-
Threaded bottom bracket shell width (mm)	68	✓
	73	✓
	83	-
Press-Fit bottom bracket shell width (mm)	84.5	-
	89.5	-
	92	-
	104.5	-
	107	-
Small ball bearing		-
Adapter	Material	Aluminum
	Finish	Painted
Spacer	Material	Resin
	Finish	-
Average weight (g)		-
Note		

Cassette

Series		XTR	DEORE XT	SLX
Model no.		CS-M9101-12	CS-M8100-12	CS-M7100-12
Type		HYPERGLIDE+	HYPERGLIDE+	HYPERGLIDE+
Rear speeds		12	12	12
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed
Combination name (Group name)		10-45T, 10-51T	10-45T, 10-51T	10-45T, 10-51T
Combination * Titanium gear	1	10-12-14-16-18-21-24-28-32-36-40-45T	10-12-14-16-18-21-24-28-32-36-40-45T	10-12-14-16-18-21-24-28-32-36-40-45T
	2	10-12-14-16-18-21-24-28-33-39-45-51T	10-12-14-16-18-21-24-28-33-39-45-51T	10-12-14-16-18-21-24-28-33-39-45-51T
	3	-	-	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	✓	✓	✓
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	1	1	1
	Finish	Anodized	Painted	Painted
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	5	-	-
	Finish	Shot	-	-
Aluminum gear	QTY (pcs)	3	2	1
	Finish	Painted	Anodized	Anodized
Steel gear	QTY (pcs)	4	10	11
	Finish	Plated	Plated	Plated
Lock ring	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Average weight (g)		357 (10-45T) 367 (10-51T)	461 (10-45T) 470 (10-51T)	513 (10-45T) 534 (10-51T)
Note				

Series		DEORE	DEORE XT	DEORE
Model no.		CS-M6100-12	CS-M8000	CS-M5100-11
Type		HYPERGLIDE+	HG	HG
Rear speeds		12	11	11
Compatible chain		HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Combination name (Group name)		10-51T	11-40T (bs), 11-42T (bt), 11-46T (bu)	11-42T, 11-51T
Combination * Titanium gear	1	10-12-14-16-18-21-24-28-33-39-45-51T	11-13-15-17-19-21-24-27-31-35-40**T (bs)	11-13-15-17-19-21-24-28-32-37-42T
	2	-	11-13-15-17-19-21-24-28-32-37-42**T (bt)	11-13-15-18-21-24-28-33-39-45-51T
	3	-	11-13-15-17-19-21-24-28-32-37**-46**T (bu)	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	✓	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	✓	✓
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	1	2	1
	Finish	Painted	Anodized	Painted
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	2	-
	Finish	-	-	-
Steel gear	QTY (pcs)	12	9	11
	Finish	Plated	Shot-Ni	Plated
Lock ring	Material	Steel	Aluminum	Steel
	Finish	Plated	Anodized	Plated
Average weight (g)		-	411 (11-40T) 434 (11-42T) 437 (11-46T)	-
Note			** Aluminum gear	

Cassette

Series		DEORE XT	DEORE	SHIMANO
Model no.		CS-M771-10	CS-M4100-10	CS-HG50-10
Type		HG	HG	HG
Rear speeds		10	10	10
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Combination name (Group name)		11-32T (bL), 11-34T (bJ), 11-36T (bk)	11-42T, 11-46T	11-36T (bk)
Combination * Titanium gear	1	11-12-14-16-18-20-22-25-28-32T (bL)	11-13-15-18-21-24-28-32-37-42T	11-13-15-17-19-21-24-28-32-36T (bk)
	2	11-13-15-17-19-21-23-26-30-34T (bJ)	11-13-15-18-21-24-28-32-37-46T	-
	3	11-13-15-17-19-21-24-28-32-36T (bk)	-	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓	✓	✓
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	2	-	-
	Finish	Anodized	-	-
Steel spider arm	QTY (pcs)	-	1	1
	Finish	-	Plated	Nickel plated
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	10	10	10
	Finish	Shot-Cr	Plated	Nickel plated
Lock ring	Material	Aluminum	Steel	Steel
	Finish	Anodized	Plated	Chrome plated
Average weight (g)		294 (11-32T) 323 (11-34T) 343 (11-36T)	-	-
Note				

Series		SHIMANO	SHIMANO	DXR
Model no.		CS-HG201-9	CS-HG200-9	CS-MX66
Type		HG	HG	Single sprocket for FH-MX70
Rear speeds		9	9	Single
Compatible chain		HG 9-speed	HG 9-speed	1/2 x 3/32
Combination name (Group name)		11-32T (bo), 11-34T (bn), 11-36T (bw)	11-32T (bo), 11-34T (bn), 11-36T (bw)	-
Combination * Titanium gear	1	11-13-15-17-19-21-24-28-32T (bo)	11-13-15-17-19-21-24-28-32T (bo)	-
	2	11-13-15-17-20-23-26-30-34T (bn)	11-13-15-17-20-23-26-30-34T (bn)	-
	3	11-13-15-17-20-23-26-30-36T (bw)	11-13-15-17-20-23-26-30-36T (bw)	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓	✓	-
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	9	9	1
	Finish	Ni-Ni plated (Top gear: Phosphate coated)	Phosphate coated	Shot-Cr/Shot-Ni
Lock ring	Material	Steel	Steel	Steel
	Finish	Phosphate coated	Phosphate coated	Chrome plated
Average weight (g)		-	-	-
Note				For BMX racing

Front Hub (Disc Brake)

Series		XTR	XTR	XTR	SAINT	DEORE XT	DEORE XT
Model no.		HB-M9110	HB-M9110-B	HB-M9110-BS	HB-M820	HB-M8110	HB-M8110-B
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		100	110	110	110	100	110
Spoke hole	28H	✓	✓	✓	-	✓	✓
	32H	✓	✓	-	✓	✓	✓
	36H	-	-	-	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-	✓	-	-
	Without	✓	✓	✓	-	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		15 mm E-THRU	15 mm E-THRU	15 mm E-THRU	20 mm Thru	15 mm E-THRU	15 mm E-THRU
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	✓	-	-	-	✓	-
	110 x 15	-	✓	✓	-	-	✓
	110 x 20	-	-	-	✓	-	-
Flange distance (mm)		60.2	70.2	62.76	61.6	60.2	70.2
Offset (mm)		5.4	5.4	3.63	5.6	5.7	5.7
P.C.D. left / right (mm)		44/44	44/44	45	52	44/44	44/44
Flange diameter left / right (mm)		52.8	52.8	51	59.6	52.8	52.8
Seal		Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	-	-
Internal grease sleeve		-	-	-	-	✓	✓
Bearing	Stainless ball	✓	✓	✓	✓	✓	✓
	Cup	Grinded	Grinded	Grinded	CBN	Polish	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Finish	Anodized	Anodized	Anodized	Anodized	-	-
Average weight (g)		132	137	146	202	142	147
Note		-	-	For straight spoke ERD: 550 - 610 mm Rim offset: 0 - 3 mm Intersections: 3 cross only including spoke heads in hub shell. Some spoke calculators may call this 2 cross. Contact the nearest SHIMANO sales office for more information	Axle is supplied with front fork.		

Front Hub (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX	SLX
Model no.		HB-M8110-BS	HB-M8000	HB-M8010	HB-M8010-B	HB-M7110	HB-M7110-B
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	Series color	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		110	100	100	110	100	110
Spoke hole	28H	✓	-	-	-	✓	✓
	32H	-	✓	✓	✓	✓	✓
	36H	-	-	✓	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		15 mm E-THRU	Quick release	15 mm E-THRU	15 mm E-THRU	15 mm E-THRU	15 mm E-THRU
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	-	✓	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	✓	-	✓	-
	110 x 15	✓	-	-	✓	-	✓
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		62.8	60.2	60.2	70.2	60.2	70.2
Offset (mm)		3.7	6	5.4	5.4	5.7	5.7
P.C.D. left / right (mm)		45/45	44/41	44/44	44/44	44/44	44/44
Flange diameter left / right (mm)		51	52.8/51.4	52.8	52.8	52.8	52.8
Seal		-	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
Internal grease sleeve		✓	✓	✓	✓	✓	✓
Bearing	Stainless ball	✓	-	-	-	✓	✓
	Cup	Polish	-	-	-	Polish	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	Aluminum	-	-	-	-
	Finish	-	Anodized	-	-	-	-
Quick release housing	Material	-	Aluminum	-	-	-	-
	Finish	-	Anodized	-	-	-	-
Quick release nut	Material	-	Steel+Resin	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	Aluminum	Aluminum	-	-
	Finish	-	-	Anodized	Anodized	-	-
Average weight (g)		158	167	148	158	142	147
Note		For straight spoke ERD: 550 - 610 mm Rim offset: 0 - 3 mm Intersections: 3 cross only including spoke heads in hub shell. Some spoke calculators may call this 2 cross. Contact the nearest SHIMANO sales office for more information	-	Axle is supplied with front fork.	-		

Front Hub (Disc Brake)

Series		DEORE	DEORE	DEORE	SHIMANO	SHIMANO	SHIMANO
Model no.		HB-M6000	HB-M6010	HB-M5100	HB-MT410	HB-MT410-B	HB-M525A
Color	1 Hub shell	Series black	Series black	Series black	Black	Black	Black
	1 Quick release	Series black	-	Series black	-	-	Black
	2 Hub shell	-	-	-	-	-	Silver
	2 Quick release	-	-	-	-	-	Silver
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake
O.L.D. (mm)		100	100	100	100	110	100
Spoke hole	28H	-	-	-	✓	✓	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	-
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		Quick release	15 mm E-THRU	Quick release	15 mm E-THRU	15 mm E-THRU	Quick release
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	✓	-	✓	-	-	✓
Thru axle (length x inner diameter ; mm)	100 x 15	-	✓	-	✓	-	-
	110 x 15	-	-	-	-	✓	-
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		60.2	60.2	60.2	60.2	70.2	59.2
Offset (mm)		5.6	5.3	5.6	5.3	5.3	5.7
P.C.D. left / right (mm)		44	44	44	44/44	44/44	61/61
Flange diameter left / right (mm)		52.8	52.8	52.8	52.8	52.8	70.6
Seal		Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
Internal grease sleeve		-	✓	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	CBN	-	-	CBN
	Cartridge	-	-	-	✓	✓	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Anodized
Axle	Material	Steel	Aluminum	Steel	-	-	Steel
	Finish	-	Anodized	-	-	-	-
Quick release lever	Material	Aluminum	-	Aluminum	-	-	Aluminum
	Finish	Anodized	-	Anodized	-	-	Anodized
Quick release housing	Material	Aluminum	-	Aluminum	-	-	Aluminum
	Finish	Anodized	-	Anodized	-	-	Anodized
Quick release nut	Material	Steel+Resin	-	Steel+Resin	-	-	Steel+Resin
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	Steel	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g)		-	-	-	-	-	-
Note			-				-

Front Hub (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		HB-M475	HB-M4050	HB-M3050	HB-MT400	HB-MT400-B	HB-MT200
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	-	-	Black
	2 Hub shell	Silver	Silver	-	-	-	-
	2 Quick release	Silver	Silver	-	-	-	-
Brake type		6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		100	100	100	100	110	100
Spoke hole	28H	-	-	-	-	✓	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		Quick release	Quick release	Quick release	15 mm E-THRU	15 mm E-THRU	Quick release
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	✓	✓	✓	-	-	✓
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	-	✓	-	-
	110 x 15	-	-	-	-	✓	-
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		59.2	60.2	60.2	60.2	70.2	60.2
Offset (mm)		5.5	5.6	5.5	5.3	5.3	5.3
P.C.D. left / right (mm)		61/61	44/44	44/44	44/44	44/44	44/44
Flange diameter left / right (mm)		70.6	52.8	52.8	52.8	52.8	52.8 (32H/36H), 53.8 (28H)
Seal		Contact	Labyrinth+Contact	Contact	Labyrinth+Contact	Labyrinth+Contact	Contact
Internal grease sleeve		-	-	-	✓	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	-	-
	Cartridge	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Aluminum	Aluminum	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	Steel, Aluminum	Aluminum	Steel	-	-	Steel
	Finish	Plated, Painted	Painted	Plated	-	-	Plated
Quick release housing	Material	Steel, Aluminum	Steel	Steel	-	-	Steel
	Finish	Painted, Anodized	Plated	Plated	-	-	Plated
Quick release nut	Material	Steel+Resin	Steel+Resin	Steel+Resin	-	-	Steel+Resin
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	Steel	Steel	-
	Finish	-	-	-	-	-	-
Average weight (g)		-	-	-	-	-	-
Note		-	-	-	-	-	-

FREEHUB (Disc Brake)

Series		XTR	XTR	XTR	SAINT	SAINT	DEORE XT
Model no.		FH-M9111	FH-M9111-B	FH-M9111-BS	FH-M820	FH-M825	FH-M8110
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		12	12	12	11/10/9/8/7	11/10/9/8/7	12
O.L.D. (mm)		142	148	148	135	150	142
Spoke hole	28H	✓	✓	✓	-	-	✓
	32H	✓	✓	-	✓	✓	✓
	36H	-	-	-	✓	✓	✓
10 tooth cog compatible		✓	✓	✓	-	-	✓
External serration disc brake rotor lock ring	With	-	-	-	✓	✓	-
	Without	✓	✓	✓	-	-	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Thru	Thru	12 mm E-THRU
Quick release skewer length (mm)	166	-	-	-	-	-	-
	168	-	-	-	-	-	-
	170	-	-	-	-	-	-
	172	-	-	-	-	-	-
	173	-	-	-	-	-	-
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	✓	-	-
	135 x 12	-	-	-	✓	-	-
	142 x 12	✓	-	-	-	-	✓
	148 x 12	-	✓	✓	-	-	-
	150 x 12	-	-	-	-	✓	-
	157 x 12	-	-	-	-	-	-
Flange distance (mm)		55.89	63.06	56.0	57.4	72.4	55.17
Offset (mm)		7.05	7.02	6.8	6.4	6.6	6.72
P.C.D. left / right (mm)		50/61	47.25/61	45/61	44/45	44/45	61/61
Flange diameter left / right (mm)		59/70	56.25/70	51/68.4	52.8/53.8	52.8/53.8	69.8/69.8
Spline type	MICRO SPLINE	✓	✓	✓	-	-	✓
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	✓	✓	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Direct engagement	Direct engagement	Direct engagement	Pawl ratchet	Pawl ratchet	Direct engagement
Quick engagement		✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 deg.)	✓ (max 7.0 deg.)
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	✓	✓	-
Bearing	Stainless ball	✓	✓	✓	-	-	-
	Cup	Grinded	Grinded	Grinded	Grinded	Grinded	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN+Polish
	Cartridge	-	-	-	-	-	-
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Aluminum
	Finish	Anodized	Anodized	Anodized	-	-	Anodized
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Aluminum
	Finish	Anodized	Anodized	Anodized	-	-	Anodized
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	-
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
Average weight (g) (w/o axle, quick release nor lock ring)		237	238	241	347 (ø10) 333 (ø12)	348	305
Note				* For straight spoke, Lacing pattern limited to 3-cross, non-offset rim For details, refer to Products Technical Information			

FREEHUB (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		FH-M8110-B	FH-M8110-BS	FH-M8130-B	FH-M8000	FH-M8010	FH-M8010-B
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	Series color	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		12	12	12	11/10/9/8/7	11/10/9/8/7	11/10/9/8/7
O.L.D. (mm)		148	148	157	135	142	148
Spoke hole	28H	✓	✓	✓	-	-	-
	32H	✓	-	✓	✓	✓	✓
	36H	✓	-	-	-	✓	-
10 tooth cog compatible		✓	✓	✓	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	166	-	-	-	-	-	-
	168	-	-	-	✓	-	-
	170	-	-	-	-	-	-
	172	-	-	-	-	-	-
	173	-	-	-	✓	-	-
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	✓	-
	148 x 12	✓	✓	-	-	-	✓
	150 x 12	-	-	-	-	-	-
	157 x 12	-	-	✓	-	-	-
Flange distance (mm)		62.16	55.95	72.69	57.4	57.4	63.4
Offset (mm)		6.6	6.78	6.43	6.9	6.4	6.4
P.C.D. left / right (mm)		60/61	45/61	58/61	44/45	44/45	44/45
Flange diameter left / right (mm)		68.8/69.8	51/68.4	66.8/69.8	52.8/53.8	52.8/53.8	52.8/53.8
Spline type	MICRO SPLINE	✓	✓	✓	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	✓	✓	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Direct engagement	Direct engagement	Direct engagement	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 deg.)
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	✓	✓	✓
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	Polish	Polish	Polish	-	-	-
	Cone	CBN+Polish	CBN+Polish	CBN+Polish	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Anodized	Anodized	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	Aluminum	-	-
	Finish	-	-	-	Anodized	-	-
Quick release housing	Material	-	-	-	Aluminum	-	-
	Finish	-	-	-	Anodized	-	-
Quick release nut	Material	-	-	-	Steel+Resin	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		307	306	310	331	359	367
Note			For straight spoke ERD: 550-610 mm Rim offset: 0-3 mm Intersections: 3 cross only, including spoke heads in hub shell. Some spoke calculators may call this 2 cross. Contact the nearest SHIMANO sales office for more information.				

FREEHUB (Disc Brake)

Series		SLX	SLX	SLX	DEORE	DEORE	DEORE
Model no.		FH-M7110	FH-M7110-B	FH-M7130-B	FH-M6000	FH-M6010	FH-M5100
Color	1 Hub shell	Series color	Series color	Series color	Series black	Series black	Series black
	1 Quick release	-	-	-	Series black	-	Series black
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		12	12	12	11/10/9/8/7	11/10/9/8/7	11/10/9/8/7
O.L.D. (mm)		142	148	157	135	142	135
Spoke hole	28H	✓	✓	✓	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	-	✓	-	✓
10 tooth cog compatible		✓	✓	✓	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release	12 mm E-THRU	Quick release
Quick release skewer length (mm)	166	-	-	-	-	-	-
	168	-	-	-	✓	-	✓
	170	-	-	-	-	-	-
	172	-	-	-	-	-	-
	173	-	-	-	✓	-	✓
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	✓	-	-	-	✓	-
	148 x 12	-	✓	-	-	-	-
	150 x 12	-	-	-	-	-	-
	157 x 12	-	-	✓	-	-	-
Flange distance (mm)		55.17	62.16	72.69	57.4	57.4	55.45
Offset (mm)		6.72	6.6	6.43	6.6	6.4	7.6
P.C.D. left / right (mm)		61/61	60/61	58/61	45	44/45	45
Flange diameter left / right (mm)		69.8/69.8	68.8/69.8	66.8/69.8	53.8	52.8/53.8	53.8
Spline type	MICRO SPLINE	✓	✓	✓	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	✓	✓	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Direct engagement	Direct engagement	Direct engagement	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	-	✓ (more than 36 times/360 deg.)	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	✓	✓	✓
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	Polish	Polish	Polish	-	-	-
	Cone	CBN+Polish	CBN+Polish	CBN+Polish	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Anodized	Anodized	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	-	Aluminum	-	Aluminum
	Finish	-	-	-	Painted	-	Painted
Quick release housing	Material	-	-	-	Aluminum	-	Aluminum
	Finish	-	-	-	Painted	-	Painted
Quick release nut	Material	-	-	-	Steel+Resin	-	Steel+Resin
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		350	354	359	-	-	-
Note							

FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-MT410	FH-MT410-B	FH-MT401	FH-MT401-B	FH-M525A	FH-M475
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	Black	Black	Black	Black
	2 Hub shell	-	-	-	-	Silver	Silver
	2 Quick release	-	-	-	-	Black	Black
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake	6-bolt disc brake
Rear speeds		12	12	12	12	11/10/9/8/7	11/10/9/8/7
O.L.D. (mm)		142	148	135	141	135	135
Spoke hole	28H	✓	✓	✓	✓	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
10 tooth cog compatible		✓	✓	✓	✓	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	-	-	-	-	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	-	-	-	-	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	Quick release	Quick release	Quick release	Quick release
Quick release skewer length (mm)	166	-	-	-	-	-	✓
	168	-	-	✓	-	✓	-
	170	-	-	-	-	-	✓
	172	-	-	-	-	-	-
	173	-	-	✓	-	✓	✓
	174	-	-	-	✓	-	-
	176	-	-	-	-	-	-
	178	-	-	-	✓	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	✓	-	-	-	-	-
	148 x 12	-	✓	-	-	-	-
	150 x 12	-	-	-	-	-	-
	157 x 12	-	-	-	-	-	-
Flange distance (mm)		55.17	61.6	55.17	61.6	57.1	57.1
Offset (mm)		6.72	6.6	6.72	6.6	6.8	6.8
P.C.D. left / right (mm)		61/61	60/61	61/61	60/61	61/61	61/61
Flange diameter left / right (mm)		69.8/69.8	68.8/69.8	69.8/69.8	68.8/69.8	70.6	70.6
Spline type	MICRO SPLINE	✓	✓	✓	✓	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	✓	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		✓ (36 times/360 deg.)	✓ (36 times/360 deg.)	✓ (36 times/360 deg.)	✓ (36 times/360 deg.)	-	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	-
Internal grease sleeve		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	CBN	-
	Cartridge	✓	✓	✓	✓	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	Aluminum	Aluminum	Aluminum	Steel, Aluminum
	Finish	-	-	Painted	Painted	Anodized	Plated, Painted
Quick release housing	Material	-	-	Steel	Steel	Aluminum	Steel, Aluminum
	Finish	-	-	Painted	Painted	Anodized	Painted, Anodized
Quick release nut	Material	-	-	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		-	-	-	-	-	-
Note							

FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-M4050	FH-M3050	FH-MT400	FH-MT400-B	FH-MT200-B
Color	1 Hub shell	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	-	-	-
	2 Hub shell	Silver	-	-	-	-
	2 Quick release	Black	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		11/10/9/8/7	11/10/9/8/7	11/10/9/8/7	11/10/9/8/7	11/10/9/8/7
O.L.D. (mm)		135	135	142	148	141
Spoke hole	28H	-	-	-	✓	✓
	32H	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓
10 tooth cog compatible		-	-	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-
	Without	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-
	Without	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-
Axle fixing method		Quick release	Quick release	12 mm E-THRU	12 mm E-THRU	Quick release
Quick release skewer length (mm)	166	-	✓	-	-	-
	168	✓	-	-	-	-
	170	-	✓	-	-	-
	172	-	-	-	-	✓
	173	✓	-	-	-	-
	174	-	-	-	-	-
	176	-	-	-	-	✓
	178	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-
	135 x 12	-	-	-	-	-
	142 x 12	-	-	✓	-	-
	148 x 12	-	-	-	✓	-
	150 x 12	-	-	-	-	-
	157 x 12	-	-	-	-	-
Flange distance (mm)		57.4	57.4	57.4	63.4	63.4
Offset (mm)		6.6	6.6	6.65	6.65	6.65
P.C.D. left / right (mm)		45/45	45/45	44/45	44/45	45/45
Flange diameter left / right (mm)		53.8	53.8	52.8/53.8	52.8/53.8	53.8
Spline type	MICRO SPLINE	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓	✓	✓	✓	✓
	HG spline S (7-speed)	-	-	-	-	-
Engagement type		Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		-	-	✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 deg.)	-
Seal	Hub	Labyrinth+Contact	Contact	Labyrinth+Contact	Labyrinth+Contact	Contact
	FREEHUB body	Contact	-	Contact	Contact	-
Internal grease sleeve		✓	-	✓	✓	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	-	-	-	-	-
	Cone	CBN	-	CBN	CBN	-
	Cartridge	-	-	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-
Quick release lever	Material	Aluminum	Steel	-	-	Steel
	Finish	Painted	Plated	-	-	Plated
Quick release housing	Material	Steel	Steel	-	-	Steel
	Finish	Plated	Plated	-	-	Painted
Quick release nut	Material	Steel+Resin	Steel+Resin	-	-	Steel+Resin
	Finish	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		-	-	-	-	-
Note				-	-	-

Wheel (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		WH-M8100-TL-F15-B-29	WH-M8100-TL-F15-B-275	WH-M8100-TL-R12-B-29	WH-M8100-TL-R12-B-275	WH-M8120-TL-F15-B-29	WH-M8120-TL-F15-B-275
Model name		WH-M8100-TL	WH-M8100-TL	WH-M8100-TL	WH-M8100-TL	WH-M8120-TL	WH-M8120-TL
Specification		F15-B-29	F15-B-275	R12-B-29	R12-B-275	F15-B-29	F15-B-275
Color	1 Hub shell	Black	Black	Black	Black	Series color	Series color
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Front	Rear	Rear	Front	Front
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		-	-	12	12	-	-
O.L.D. (mm)		110	110	148	148	110	110
Wheel size		622 x 24C (29 inch)	584 x 24C (27.5 inch)	622 x 24C (29 inch)	584 x 24C (27.5 inch)	622 x 30C (29 inch)	584 x 30C (27.5 inch)
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	29 x 2.00 - 2.35	27.5 x 2.00 - 2.35	29 x 2.00 - 2.35	27.5 x 2.00 - 2.35	29 x 2.25 - 2.60	27.5 x 2.25 - 2.60
Rim	Height (mm)	18.8	18.8	18.8	18.8	19.8	19.8
	Internal width (mm)	23.8	23.8	23.8	23.8	30	30
	External width (mm)	27.9	27.9	27.9	27.9	34.7	34.7
	Rim joint	Welded	Welded	Welded	Welded	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	✓	✓	✓	✓	✓	✓
	Requires rim tape	✓ (24-622)	✓ (24-584)	✓ (24-622)	✓ (24-584)	✓ (30-584)	✓ (30-584)
Spokes	Number	28	28	28	28	28	28
	Straight pull	✓	✓	✓	✓	-	-
	J-bend	-	-	-	-	✓	✓
	Diameter (mm)	2-1.5	2-1.5	2-1.5	2-1.5	2.0-1.8	2.0-1.8
Axle fixing method		15 mm E-THRU	15 mm E-THRU	12 mm E-THRU	12 mm E-THRU	15 mm E-THRU	15 mm E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-	-
	168	-	-	-	-	-	-
	173	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	-	-	-	-
	110 x 15	✓	✓	-	-	✓	✓
	142 x 12	-	-	-	-	-	-
	148 x 12	-	-	✓	✓	-	-
Spline type	MICRO SPLINE	-	-	✓	✓	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	-	Direct engagement	Direct engagement	-	-
Quick engagement		-	-	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	-	-
Bearing	Stainless ball	✓	✓	-	-	✓	✓
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	CBN+Polish	CBN+Polish	CBN	CBN
	Cartridge	-	-	-	-	-	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	-	-	Contact	Contact	-	-
Internal grease sleeve		✓	✓	-	-	✓	✓
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black	Black	Black	Black	Black	Black
FREEHUB body	Material	-	-	Aluminum	Aluminum	-	-
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
	Color	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		846	808	994	956	941	875
Note							

Wheel (Disc Brake)

Series		DEORE XT	DEORE XT	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-M8120-TL-R12-B-29	WH-M8120-TL-R12-B-275	WH-MT620-TL-F15-B-29	WH-MT620-TL-F15-B-275	WH-MT620-TL-R12-B-29	WH-MT620-TL-R12-B-275
Model name		WH-M8120-TL	WH-M8120-TL	WH-MT620-TL	WH-MT620-TL	WH-MT620-TL	WH-MT620-TL
Specification		R12-B-29	R12-B-275	F15-B-29	F15-B-275	R12-B-29	R12-B-275
Color	1 Hub shell	Series color	Series color	Black	Black	Black	Black
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Rear	Rear	Front	Front	Rear	Rear
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		12	12	-	-	12	12
O.L.D. (mm)		148	148	110	110	148	148
Wheel size		622 x 30C (29 inch)	584 x 30C (27.5 inch)	622 x 30C (29 inch)	584 x 30C (27.5 inch)	622 x 30C (29 inch)	584 x 30C (27.5 inch)
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	29 x 2.25 - 2.60	27.5 x 2.25 - 2.60	29 x 2.25 - 2.60	27.5 x 2.25 - 2.60	29 x 2.25 - 2.60	27.5 x 2.25 - 2.60
Rim	Height (mm)	19.8	19.8	19.8	19.8	19.8	19.8
	Internal width (mm)	30	30	30	30	30	30
	External width (mm)	34.7	34.7	34.7	34.7	34.7	34.7
	Rim joint	Welded	Welded	Welded	Welded	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	✓	✓	✓	✓	✓	✓
	Requires rim tape	✓ (30-622)	✓ (30-584)	✓ (30-584)	✓ (30-584)	✓ (30-584)	✓ (30-584)
Spokes	Number	28	28	24	24	24	24
	Straight pull	-	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓	✓
	Diameter (mm)	2.0-1.8	2.0-1.8	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	15 mm E-THRU	15 mm E-THRU	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-	-
	168	-	-	-	-	-	-
	173	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	-	-	-	-
	110 x 15	-	-	✓	✓	-	-
	142 x 12	-	-	-	-	-	-
	148 x 12	✓	✓	-	-	✓	✓
Spline type	MICRO SPLINE	✓	✓	-	-	✓	✓
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Direct engagement	Direct engagement	-	-	Pawl ratchet	Pawl ratchet
Quick engagement		✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN+Polish	CBN+Polish	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	Contact	Contact	-	-	Contact	Contact
Internal grease sleeve		-	-	-	-	-	-
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Brass	Brass	Brass	Brass
	Finish	Black	Black	Black	Black	Black	Black
FREEHUB body	Material	Aluminum	Aluminum	-	-	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Axle	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Anodized	Anodized	-	-	-	-
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
	Color	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		1061	1016	990	940	1255	1206
Note							

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-MT601-TL-F15-29	WH-MT601-TL-R12-29	WH-MT601-TL-F15-275	WH-MT601-TL-R12-275	WH-MT601-TL-F15-B-29	WH-MT601-TL-R12-B-29
Model name		WH-MT601-TL	WH-MT601-TL	WH-MT601-TL	WH-MT601-TL	WH-MT601-TL	WH-MT601-TL
Specification		F15-29	R12-29	F15-275	R12-275	F15-B-29	R12-B-29
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Rear	Front	Rear	Front	Rear
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		-	12	-	12	-	12
O.L.D. (mm)		100	142	100	142	110	148
Wheel size		622 x 25C (29 inch)	622 x 25C (29 inch)	584 x 25C (27.5 inch)	584 x 25C (27.5 inch)	622 x 25C (29 inch)	622 x 25C (29 inch)
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	29 x 2.00 - 2.40	29 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	29 x 2.00 - 2.40	29 x 2.00 - 2.40
Rim	Height (mm)	20.8	20.8	20.8	20.8	20.8	20.8
	Internal width (mm)	25	25	25	25	25	25
	External width (mm)	29.7	29.7	29.7	29.7	29.7	29.7
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓ (25-622)	✓ (25-622)	✓ (25-584)	✓ (25-584)	✓ (25-622)	✓ (25-622)
Spokes	Number	24	24	24	24	24	24
	Straight pull	-	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓	✓
	Diameter (mm)	2.3	2.3	2.3	2.3	2.3	2.3
Axle fixing method		15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-	-
	168	-	-	-	-	-	-
	173	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	✓	-	✓	-	-	-
	110 x 15	-	-	-	-	✓	-
	142 x 12	-	✓	-	✓	-	-
	148 x 12	-	-	-	-	-	✓
Spline type	MICRO SPLINE	-	✓	-	✓	-	✓
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet
Quick engagement		-	✓ (36 times/360 deg.)	-	✓ (36 times/360 deg.)	-	✓ (36 times/360 deg.)
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	-	-
	Cartridge	✓	✓	✓	✓	✓	✓
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal grease sleeve		-	-	-	-	-	-
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass	Brass
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
FREEHUB body	Material	-	Steel	-	Steel	-	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Axle	Material	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
	Color	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		931	1238	884	1189	935	1248
Note							

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-MT601-TL-F15-B-275	WH-MT601-TL-R12-B-275	WH-MT501-CL-R12-B-29	WH-MT501-CL-R12-B-275	WH-MT500-CL-F-275	WH-MT500-CL-R-275
Model name		WH-MT601-TL	WH-MT601-TL	WH-MT501-CL	WH-MT501-CL	WH-MT500-CL	WH-MT500-CL
Specification		F15-B-275	R12-B-275	R12-B-29	R12-B-275	F-275	R-275
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	Black	Black
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Rear	Rear	Rear	Front	Rear
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		-	12	12	12	-	11/10/9/8/7
O.L.D. (mm)		110	148	148	148	100	135
Wheel size		584 x 25C (27.5 inch)	584 x 25C (27.5 inch)	622 x 24C (29 inch)	584 x 24C (27.5 inch)	584 x 24C (27.5 inch)	584 x 24C (27.5 inch)
Tire	Type	Tubeless	Tubeless	Clincher	Clincher	Clincher	Clincher
	Recommended size	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	29 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40
Rim	Height (mm)	20.8	20.8	21	21	21	21
	Internal width (mm)	25	25	24	24	24	24
	External width (mm)	29.7	29.7	29.6	29.6	29.6	29.6
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓ (25-584)	✓ (25-584)	✓ (24-622)	✓ (24-584)	✓ (24-584)	✓ (24-584)
Spokes	Number	24	24	24	24	24	24
	Straight pull	-	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓	✓
	Diameter (mm)	2.3	2.3	2.3	2.3	2.3	2.3
Axle fixing method		15 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release	Quick release
Quick release skewer length (mm)	133	-	-	-	-	✓	-
	168	-	-	-	-	-	✓
	173	-	-	-	-	-	✓
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	-	-	-	-
	110 x 15	✓	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
	148 x 12	-	✓	✓	✓	-	-
Spline type	MICRO SPLINE	-	✓	✓	✓	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	Pawl ratchet	Pawl ratchet	Pawl ratchet	-	Pawl ratchet
Quick engagement		-	✓ (36 times/360 deg.)	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	CBN	CBN	CBN	CBN
	Cartridge	✓	✓	-	-	-	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	-	Contact	Contact	Contact	-	-
Internal grease sleeve		-	-	-	-	✓	✓
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass	Brass
	Finish	Plated	Plated	Black	Black	Black	Black
FREEHUB body	Material	-	Steel	Steel	Steel	-	-
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Axle	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	-	-	Aluminum	Aluminum
	Finish	-	-	-	-	Painted	Painted
	Color	-	-	-	-	Black	Black
Quick release housing	Material	-	-	-	-	Steel	Steel
	Finish	-	-	-	-	Painted	Painted
Quick release nut	Material	-	-	-	-	Steel+Resin	Steel+Resin
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		888	1199	1260	1208	962	1147
Note						-	*** Spoke protector is available only for 9 & 10-speed

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-MT500-CL-F15-275	WH-MT500-CL-R12-275	WH-MT500-CL-F15-B-275	WH-MT500-CL-R12-B-275	WH-MT500-CL-F-29	WH-MT500-CL-R-29
Model name		WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL
Specification		F15-275	R12-275	F15-B-275	R12-B-275	F-29	R-29
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	Black	Black
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Rear	Front	Rear	Front	Rear
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		-	11/10/9/8/7	-	11/10/9/8/7	-	11/10/9/8/7
O.L.D. (mm)		100	142	110	148	100	135
Wheel size		584 x 24C (27.5 inch)	584 x 24C (27.5 inch)	584 x 24C (27.5 inch)	584 x 24C (27.5 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	29 x 2.00 - 2.35	29 x 2.00 - 2.35
Rim	Height (mm)	21	21	21	21	21	21
	Internal width (mm)	24	24	24	24	24	24
	External width (mm)	29.6	29.6	29.6	29.6	29.6	29.6
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓ (24-584)	✓ (24-584)	✓ (24-584)	✓ (24-584)	✓ (24-622)	✓ (24-622)
Spokes	Number	24	24	24	24	24	24
	Straight pull	-	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓	✓
	Diameter (mm)	2.3	2.3	2.3	2.3	2.3	2.3
Axle fixing method		15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU	Quick release	Quick release
Quick release skewer length (mm)	133	-	-	-	-	✓	-
	168	-	-	-	-	-	✓
	173	-	-	-	-	-	✓
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	✓	-	-	-	-	-
	110 x 15	-	-	✓	-	-	-
	142 x 12	-	✓	-	-	-	-
	148 x 12	-	-	-	✓	-	-
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	✓	-	✓	-	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet
Quick engagement		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	-	Contact	-	Contact	-	-
Internal grease sleeve		✓	✓	✓	✓	✓	✓
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass	Brass
	Finish	Black	Black	Black	Black	Black	Black
FREEHUB body	Material	-	Steel	-	Steel	-	-
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Axle	Material	Aluminum	Steel	Aluminum	Steel	Steel	Steel
	Finish	Anodized	-	Anodized	-	-	-
Quick release lever	Material	-	-	-	-	Aluminum	Aluminum
	Finish	-	-	-	-	Painted	Painted
	Color	-	-	-	-	Black	Black
Quick release housing	Material	-	-	-	-	Steel	Steel
	Finish	-	-	-	-	Painted	Painted
Quick release nut	Material	-	-	-	-	Steel+Resin	Steel+Resin
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	Steel	-	Steel	-	-	-
	Finish	Painted	-	Painted	-	-	-
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 RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		936	1133	946	1145	1013	1200
Note		-	*** Spoke protector is available only for 9 & 10-speed	-	*** Spoke protector is available only for 9 & 10-speed	-	-

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-MT500-CL-F15-29	WH-MT500-CL-R12-29	WH-MT500-CL-F15-B-29	WH-MT500-CL-R12-B-29
Model name		WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL
Specification		F15-29	R12-29	F15-B-29	R12-B-29
Color	1 Hub shell	Black	Black	Black	Black
	1 Quick release	-	-	-	-
	2 Hub shell	-	-	-	-
	2 Quick release	-	-	-	-
Front/Rear		Front	Rear	Front	Rear
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		-	11/10/9/8/7	-	11/10/9/8/7
O.L.D. (mm)		100	142	110	148
Wheel size		622 x 24C (29 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)
Tire	Type	Clincher	Clincher	Clincher	Clincher
	Recommended size	29 x 2.00 - 2.35	29 x 2.00 - 2.35	29 x 2.00 - 2.35	29 x 2.00 - 2.35
Rim	Height (mm)	21	21	21	21
	Internal width (mm)	24	24	24	24
	External width (mm)	29.6	29.6	29.6	29.6
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-
	OFFSET RIM	-	-	-	-
	Requires rim tape	✓ (24-622)	✓ (24-622)	✓ (24-622)	✓ (24-622)
Spokes	Number	24	24	24	24
	Straight pull	-	-	-	-
	J-bend	✓	✓	✓	✓
	Diameter (mm)	2.3	2.3	2.3	2.3
Axle fixing method		15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133	-	-	-	-
	168	-	-	-	-
	173	-	-	-	-
	178	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	✓	-	-	-
	110 x 15	-	-	✓	-
	142 x 12	-	✓	-	-
	148 x 12	-	-	-	✓
Spline type	MICRO SPLINE	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	✓	-	✓
	HG spline S (7-speed)	-	-	-	-
Engagement type		-	Pawl ratchet	-	Pawl ratchet
Quick engagement		-	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	-	-	-	-
	Cone	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	-	Contact	-	Contact
Internal grease sleeve		✓	✓	✓	✓
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass
	Finish	Black	Black	Black	Black
FREEHUB body	Material	-	Steel	-	Steel
	Finish	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Axle	Material	Aluminum	Steel	Aluminum	Steel
	Finish	Anodized	-	Anodized	-
Quick release lever	Material	-	-	-	-
	Finish	-	-	-	-
	Color	-	-	-	-
Quick release housing	Material	-	-	-	-
	Finish	-	-	-	-
Quick release nut	Material	-	-	-	-
	Finish	-	-	-	-
Disc brake rotor lock ring	Material	Steel	-	Steel	-
	Finish	Painted	-	Painted	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		988	1186	998	1199
Note		-	-	-	-

CI-DECK

Series		CI-DECK	CI-DECK	CI-DECK	CI-DECK	CI-DECK	CI-DECK
Model no.		ID-CI300-7R	ID-CI300-6R	ID-CI300-LC	ID-CI400	SM-CI300	SM-CI301
Compatible shifter		SL-RS34/RS35/RS36/RS45/RS47	SL-RS34/RS35/RS36/RS45/RS47	-	-	-	-
Front speeds		-	-	-	-	-	-
Rear speeds		7	6	-	-	-	-
Shifter compatible rear derailleur type		Top normal	Top normal	-	-	-	-
CI-DECK cable		Stainless steel	Stainless steel	-	-	-	-
CI-DECK cable type		TX50	TX50	-	-	-	-
OPTICAL GEAR DISPLAY	Front	-	-	-	-	-	-
	Rear	7-speed	6-speed	-	-	-	-
Clamp band diameter (mm)	22.2	-	-	-	-	-	-
	25	-	-	-	-	-	-
	22.2/25.0	-	-	-	-	✓	-
CI-DECK upper cover	Material	Resin	Resin	Resin	-	-	-
	Color	Painted	Painted	Painted	-	-	-
CI-DECK body	Material	Resin	Resin	Resin	-	-	-
	Color	-	-	-	-	-	-
Clamp band	Material	-	-	-	-	Resin	-
	Color	-	-	-	-	-	-
Note		Use with SM-CI300	Use with SM-CI300	Accessory cover, use with SM-CI300	Analog compass, use with SM-CI300	Bracket for ID-CI300/ID-CI400/SC-CI300	Cowling use with SM-CI300

Cycle Computer (CI-DECK)

Series		CI-DECK
Model no.		SC-CI300
Compatible system		Mechanical
Attachment position		Handlebar
Battery type		CR2032
Charging for cycle computer		-
Front speeds		-
Rear speeds		-
Number of programable wheel size		1
Wheel size range (inch)		16-26
Remote switch		-
Communications		Wired
Memory capacity		-
PC software available		-
Detachable		✓
Display spec	Size (mm ; active area)	20 x 20
	Font type	Segment
	Panel type	LCD
	Back light	-
	Touch panel	-
Display function	Gear indicator	-
	Speed	✓
	Cadence	-
	Trip distance	-
	Odometer	✓
	Heart rate	-
	Power	-
	Time/Clock	✓
	Altitude/Slope	-
	Temperature	-
	Lap time	-
	Auto display start	✓
Setting function	Display customizing	-
	Unit setting	-
	Language choice	-
	Beep on/off	-
	Changing data sampling rate	-
Note		Use with SM-CI300

Shift Switch

Series			DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.			SW-M8150-R	SW-M8150-IR	SW-M8050-R	SW-M8050-L
Switch type			Adjustable lever position	Adjustable lever position	FIREBOLT	FIREBOLT
Position			Clamp band	I-SPEC EV	Clamp band, Right	Clamp band, Left
Di2 connectivity wired	Di2 shifting		✓	✓	✓	✓
Di2 connectivity wireless	Di2 shifting		-	-	-	-
Button numbers (pcs)			3	3	2	2
Master unit			-	-	-	-
Firmware update by E-TUBE PROJECT			✓	✓	✓	✓
SD50 port (pcs)			0	0	1	1
SD300 port (pcs)			1	1	0	0
SD50 connector (pcs)			0	0	0	0
SD300 connector (pcs)			0	0	0	0
Switch1	Default function		RD outward	RD outward	RD outward	FD outward
	Multiple input	2 step	-	-	-	-
		Hold	✓	✓	✓	-*(✓)
	Adjustable lever position		✓	✓	-	-
Switch2	Default function		RD inward	RD inward	RD inward	FD inward
	Multiple input	2 step	-	-	-	-
		Hold	✓	✓	✓	-*(✓)
	Adjustable lever position		✓	✓	-	-
Switch3	Default function		Auto on/off	Auto on/off	-	-
	Multiple input	2 step	-	-	-	-
		Hold	✓	✓	-	-
Suspension switch			-	-	-	-**(✓)
Battery			-	-	-	-
LED	Shimano system status		-	-	-	-
Average weight (g)			81	77	93	93
Note						* User can use it for rear derailleur multishift ** User can use it for Suspension control

Rear Derailleur

Series			XTR	DEORE XT	DEORE XT	DEORE XT
Model no.			RD-M9050-SGS	RD-M8150-12	RD-M8150-11	RD-M8050-GS
Color	1		Series color	Series color	Series color	Series color
	2		-	-	-	-
Rear speeds			11	12	11	11
Compatible chain			LINKGLIDE, HG 11-speed	HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
RD construction	SHIMANO SHADOW RD		-	-	-	-
	SHIMANO SHADOW RD+		✓	✓	✓	✓
	Double servo		-	-	-	-
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	✓	✓	✓	✓
		Direct mount	✓	-	-	✓
	SHIMANO ROAD type	Direct attachment (conventional)	-	-	-	-
		Direct mount	-	-	-	-
	UDH standard		-	✓	✓	-
Mode converter			-	-	-	-
Cable adjuster			-	-	-	-
Max. front difference			18T	0T	0T	10T
Total capacity			41T**	41T	39T	35T **
Low sprocket	Max.		40T (3x11-speed), 42T (2x11-speed), 46T (1x11-speed)	51T	50T	42T (2x11-speed), 46T (1x11-speed)
	Min.		40T	51T	50T	40T
Top sprocket	Max.		11T	10T	11T	11T
	Min.		11T	10T	11T	11T
Fluoric coated link bushings			4	3	3	4
Pulley	Guide pulley bearing		Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	Tension pulley bearing		Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing
	Teeth		11T	13T	13T	11T
	Screws material		Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓	✓	✓
Bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized
B-axle	Hollow axle		✓	✓	✓	✓
	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized
B-axle 2	Hollow axle		✓	✓	✓	✓
	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel
	Finish		-	-	-	-
Plate body	Material		CFRP	GFRP	GFRP	GFRP
	Finish		Painted	-	-	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Steel
	Finish		Anodized	Anodized	Anodized	Painted
Outer plate	Material		Carbon	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Painted	Painted	Anodized
Cable fixing screw	Material		-	-	-	-
	Finish		-	-	-	-
Stroke adjusting screw	Material		-	-	-	-
	Finish		-	-	-	-
Di2 connectivity wired	Di2 shifting		✓	✓	✓	✓
Di2 connectivity wireless	Di2 shifting		-	-	-	-
	Bluetooth® LE	Cycling power	-	-	-	-
	ANT+	Bicycle power	-	-	-	-
	Bluetooth® LE custom (*1)	Adjust mode information	-	-	-	-
		Di2 battery level	-	-	-	-
		Gear position	-	-	-	-
		SHIMANO E-BIKE SYSTEMS data items (*3)	-	-	-	-
		Compatible with E-TUBE RIDE	-	-	-	-
		Compatible with E-TUBE PROJECT	-	-	-	-
	ANT private (*2)	Adjust mode information	-	-	-	-
		Di2 battery level	-	-	-	-
		Gear position	-	-	-	-
		SHIMANO E-BIKE SYSTEMS data items (*3)	-	-	-	-
SD50 port (pcs)			1	0	0	1
SD300 port (pcs)			0	1	1	0
SD50 connector (pcs)			0	0	0	0
SD300 connector (pcs)			0	0	0	0
LED for system status			-	-	-	-
Charging port			-	-	-	-
Charging cable			-	-	-	-
Average weight (g)			295	375	375	319
Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile. *3 Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.			* w/o Bracket spec available. ** The Di2 system limits cross chain to prevent a chain from getting loose.	RD-M8150 is only for E-BIKE	RD-M8150 is only for E-BIKE	* w/o Bracket spec available. ** The Di2 system limits cross chain to prevent a chain from getting loose.

Front Derailleur

Series			DEORE XT
Model no.			FD-M8070
Color	1		Series color
	2		-
Front speeds			2
Rear speeds			11
Compatible chain			LINKGLIDE, HG 11-speed
Action	TOP SWING		-
	Down swing		✓
	SIDE SWING		-
Mount	Clamp band (mm)	28.6	w/ SM-FD905-L, SM-FD905-H
		31.8	w/ SM-FD905-L, SM-FD905-H
		34.9	w/ SM-FD905-L, SM-FD905-H
	E-type	With bottom bracket plate	-
		Without bottom bracket plate	w/ SM-FD905-E**
	Direct mount		w/ SM-FD905-D**
	ISCG05 mount		
Chain line (mm)			48.8 *
Chainstay angle (deg.)			66-69
Top gear teeth			38-34T
Total capacity			10T
Applicable top-mid tooth difference			-
Angled stroke adjust screw			
Angled clamp band design			
Link bushings			7
Front clamp band	Material		
	Finish		
Rear clamp band, base bracket	Material		
	Finish		
Clamp screw	Material		
	Finish		
Bottom bracket plate	Material		
	Finish		
Outer link	Material		Aluminum
	Finish		Painted
Inner link	Material		Steel
	Finish		Plated
Chain guide	Material		Steel
	Finish		Nickel plated
Stroke adjusting screw	Material		
	Finish		
Master unit			-
Firmware update by E-TUBE PROJECT			✓
SD50 port (pcs)			1
SD300 port (pcs)			0
SD50 connector (pcs)			0
SD300 connector (pcs)			0
Average weight (g) (band type: L size, direct type w/ screw)			134
Note			* For FC 3 mm outboard spec, 51.8 mm ** Compatible with the special crankset which chain line is 3 mm outboard.

Mount Adapter for Front Derailleur

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

System Information Display

Series		SHIMANO
Model no.		SC-MT800
Compatible system		E-TUBE
Master unit		-
Wireless system		ANT private *, Bluetooth®LE
Firmware update by E-TUBE PROJECT		✓
SD50 port (pcs)		3
SD300 port (pcs)		0
SD50 connector (pcs)		0
SD300 connector (pcs)		0
Attachment position		Handle bar**
Display detachable		-
Adjust button		✓
Display function***	Gear indicator (rear)	11
	Gear indicator (front)	1/2/3
	Shifting Mode (manual / SYNCHRONIZED SHIFT)	✓
	Suspension Mode	✓
	Shifting adjust mode	✓
	Battery charge level	✓
Setting function	Shifting adjust	✓
For Di2 system	Shifting adjust indicator	✓
	System diagnosis	✓
	Charging port for built-in battery	✓
	Compatible charger	SM-BCR2
	SYNCHRONIZED SHIFT mode change	✓
Average weight (g)		30
Note		* ANT private has compatibility with ANT+ cycle computer but not freely open profile. ** 2 Spec of clamp band diameter ø31.8 and ø35.0 *** Data of list of "Display function" is sent to other digital device by ANT private.

TREKKING

	Page	
Shifter	76	SL
Brake Lever (Hydraulic Disc Brake)	77	BL
Brake Lever	78	BL
Rear Derailleur	79	RD
Front Derailleur	80	FD
Brake (V-BRAKE)	82	BR
Crankset	83	FC
Front Hub (Rim/Disc Brake)	85	HB
FREEHUB (Rim/Disc Brake)	86	FH

TREKKING

Shifter

Series			DEORE XT	DEORE XT	DEORE	DEORE
Model no.			SL-T8000-R	SL-T8000-L	SL-T6000-R	SL-T6000-L
Color	1		Series color	Series color	Series black	Series black
	2		-	-	-	-
Shifter type			RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds			-	3	-	2/3
Rear speeds			10	-	10	-
Compatible rear derailleur type			MTB 10-speed	-	MTB 10-speed	-
Mount type	Clamp band		✓	✓	✓	✓
	I-SPEC B		-	-	-	-
	I-SPEC II		-	-	-	-
	I-SPEC EV		-	-	-	-
Shift lever position adjust			-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)			-	-	-	-
Shift lever cable adjust			✓	✓	✓	✓
Front 2/3 mode converter			-	-	-	-
Max. multiple shifts (main lever/rear)			4	-	3	-
Release function	MULTI RELEASE		✓	-	-	-
	INSTANT RELEASE		✓	✓	-	-
	2-WAY RELEASE		✓	✓	✓	✓
	Adjustable lever		-	-	-	-
OPTICAL GEAR DISPLAY	With		✓	✓	✓	✓
	With (removable)		-	-	-	-
	Without		-	-	-	-
Multi-bearing construction			2	2	-	-
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-
Main lever body	Material		Aluminum	Aluminum	Steel+GFRP	Steel+GFRP
	Finish		Painted	Painted	-	-
Release lever body	Material		Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-	-
Base cover	Material		GFRP	GFRP	GFRP	GFRP
	Finish		Painted	Painted	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-
		OPTISLICK	✓	✓	✓	✓
		SIL-TEC	-	-	-	-
		Stainless	✓	✓	✓	✓
		Steel	-	-	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			126	120	-	-
Note						

Brake Lever (Hydraulic Disc Brake)

Series		DEORE XT	DEORE XT	DEORE
Model no.		BL-T8100	BL-T8000	BL-T6000
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		3	3	3
Color	1	Series color	Series color	Series black
	2	-	-	Series silver
	3	-	-	Black (SHIMANO logo) *
Brake hose (kit)		SM-BH90-SBM	SM-BH90-SBM	SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black
	2	-	-	-
J-Kit spec (for OEM)		✓	✓	✓
SERVO WAVE		-	-	-
Reach adjust	Toolless	✓	✓	-
	Tool	-	-	✓
Free stroke adjust		-	-	-
Compatible shifter mount	Clamp band	✓	✓	✓
	I-SPEC B	-	-	-
	I-SPEC II	✓	✓	✓
	I-SPEC EV	-	-	-
Clamp band	Open clamp	✓	✓	✓
Recommended brake caliper		BR-M8100 BR-M8120	BR-M8000	BR-M6000
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
Funnel bleeding		✓	✓	✓
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel
	Finish	Painted	Painted	-
Brake lever	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Average weight (g)		108	108	-
Note				* T6000 kit only

Brake Lever

Series		DEORE	DEORE	SHIMANO	SHIMANO
Model no.		BL-T610	BL-T611	BL-T4000	BL-T4010
Color	1	Black	Black	Black	Black
	2	-	-	Silver	Silver
	3	-	-	-	-
Compatible brake type	V-BRAKE	✓	✓*	✓	✓*
	Mechanical disc brake (MTB)	✓	✓*	✓	✓*
	Mechanical disc brake (Road)	-	-	-	-
	Caliper (NEW SUPER SLR)	-	-	-	-
	Caliper (SUPER SLR)	-	-	-	-
	Cantilever brake	-	-	-	-
	Roller brake	-	-	-	-
Recommended POWER MODULATOR	V-BRAKE	-	SM-PM70	-	SM-PM40
	Mechanical disc brake (MTB)	-	SM-PM50	-	SM-PM50
Clamp band	Open clamp band	✓	✓	-	-
	I-SPEC	✓**	✓**	-	-
	Diameter (mm)	22.2	22.2	22.2	22.2
Internal bumper stop		✓	✓	✓	✓
Lever size (finger)		2	3	2	3
Brake cable type		T-type	T-type	T-type	T-type
Power adjuster		-	-	-	-
SERVO WAVE		-	-	-	-
Reach adjust		✓	✓	✓	✓
Cable adjust		✓	✓	✓	✓
Cable adjust type		Two hand	Two hand	Two hand	Two hand
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Stainless clamp screw		✓	✓	✓	✓
Average weight (g)		-	-	-	-
Note		For cross bike ** I-SPEC B-type	For Trekking * POWER MODULATOR must be used for front brake ** I-SPEC B-type		* POWER MODULATOR must be used for front brake

Rear Derailleur

Series			DEORE XT	DEORE	SHIMANO ALIVIO	ACERA
Model no.			RD-T8000-SGS	RD-T6000-SGS	RD-T4000	RD-T3000
Color	1		Series color	Series black	Black	Black
	2		-	-	Silver	Silver
Rear speeds			10	10	9	9
Compatible chain			HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
RD construction	SHIMANO SHADOW RD		✓	✓	-	-
	SHIMANO SHADOW RD+		-	-	-	-
	Double servo		-	-	✓	✓
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	✓	✓	✓	✓
		Direct mount	✓	✓	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	-	-	-	-
		Direct mount	-	-	-	-
	UDH standard		-	-	-	-
	Riveted adapter	ROAD type	-	-	-	-
		BMX-track type	-	-	-	-
Mode converter			-	-	-	-
Cable adjuster			-	-	✓	✓
Max. front difference			22T	22T	22T	22T
Total capacity			47T	47T	45T	45T
Low sprocket	Max.		36T	36T	34T	34T
	Min.		32T	32T	28T	28T
Top sprocket	Max.		11T	11T	11T	11T
	Min.		11T	11T	11T	11T
Fluoric coated link bushings			4	3	2	1
Pulley	Guide pulley bearing		Sealed Bearing	-	-	-
	Tension pulley bearing		Sealed bearing	-	-	-
	Teeth		11T	11T	11T	11T
	Screws material		Stainless steel	Stainless steel	Steel	Steel
	Sunken type pulley screw		✓	✓	✓	✓
Bracket	Material		Aluminum	Steel	-	-
	Finish		Painted	Painted	-	-
B-axle	Hollow axle		✓	✓	-	-
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-
B-axle 2	Hollow axle		✓	✓	-	-
	Material		Stainless steel	Stainless steel	-	-
	Finish		-	-	-	-
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel
	Finish		-	-	Painted	Painted
Plate body	Material		Aluminum	GFRP	Resin	Resin
	Finish		Painted	-	Painted	Painted
Outer link	Material		Aluminum	Aluminum	Aluminum	Steel
	Finish		Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted
Outer plate	Material		Aluminum	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted
Cable fixing screw	Material		Stainless steel	Steel	Stainless steel	Stainless steel
	Finish		Plated	Plated	-	-
Stroke adjusting screw	Material		Steel	Steel	Stainless steel	Steel
	Finish		Plated	Plated	-	Plated
Average weight (g)			253	-	-	-
Note			* Possible to attach to direct mount in case bracket is removed.	* Possible to attach to direct mount in case bracket is removed.		

Front Derailleur

Series			DEORE XT	DEORE XT	DEORE XT	DEORE	DEORE	DEORE
Model no.			FD-T8000-H-3	FD-T8000-L-3	FD-T8000-L-6	FD-T6000-H3	FD-T6000-L3	FD-T6000-L6
Color	1		Series color	Series color	Series color	Series black	Series black	Series black
	2		-	-	-	-	Series silver	Series silver
Front speeds			3	3	3	3	3	3
Rear speeds			10	10	10	10	10	10
Compatible chain			HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Action	TOP SWING		-	✓	✓	-	✓	✓
	Down swing		✓	-	-	✓	-	-
	SIDE SWING		-	-	-	-	-	-
Mount	Clamp band (mm)	28.6	✓ * (w/ S size adapter)	✓ * (w/ S size adapter)	✓ * (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	✓	✓	✓	✓	✓	✓
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount		-	-	-	-	-	-
Cable route type	Dual-pull		✓	✓	✓	✓	✓	✓
	Top-pull exclusive		-	-	-	-	-	-
	Down-pull exclusive		-	-	-	-	-	-
	Front-pull		-	-	-	-	-	-
Chain line (mm)			50	50	50	50	50	50
Chainstay angle (deg.)			63-66	63-66	66-69	63-66	63-66	66-69
Top gear teeth			48T	48T	48T	44T, 48T	44T, 48T	44T, 48T
Total capacity			22T	22T	22T	22T	22T	22T
Applicable top-mid tooth difference			12T	12T	12T	12T	12T	12T
Multi access cable fixing screw			-	-	-	-	✓	✓
Angled stroke adjust screw			-	-	-	-	-	-
Angled clamp band design			✓	✓	✓	-	-	-
Link bushings			8	2	2	8	2	2
Front clamp band	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Aluminum	Steel	Steel	Aluminum	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Chrome plated	Chrome plated	Chrome plated	Plated	Plated	Plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Average weight (g) (band type: L size, direct type w/ screw)			169	155	155	-	-	-
Note			* S-size adapter is available only OTC package	* S-size adapter is available only OTC package	* S-size adapter is available only OTC package			

Front Derailleur

Series			ACERA	ACERA	ACERA
Model no.			FD-T3000-2-TS3	FD-T3000-TS3	FD-T3000-TS6
Color	1		Series color	Series color	Series color
	2		-	-	-
Front speeds			2	3	3
Rear speeds			9	9	9
Compatible chain			HG 9-speed	HG 9-speed	HG 9-speed
Action	TOP SWING		✓	✓	✓
	Down swing		-	-	-
	SIDE SWING		-	-	-
Mount	Clamp band (mm)	28.6	✓ * (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	✓	✓	✓
	E-type	With bottom bracket plate	-	-	-
		Without bottom bracket plate	-	-	-
	Direct mount		-	-	-
Cable route type	Dual-pull		✓	✓	✓
	Top-pull exclusive		-	-	-
	Down-pull exclusive		-	-	-
	Front-pull		-	-	-
Chain line (mm)			48.8	50	50
Chainstay angle (deg.)			63-68	63-66	66-69
Top gear teeth			46T	44T, 48T	44T, 48T
Total capacity			16T	22T	22T
Applicable top-mid tooth difference			-	12T	12T
Multi access cable fixing screw			-	-	-
Angled stroke adjust screw			-	-	-
Angled clamp band design			✓	✓	✓
Link bushings			-	-	-
Front clamp band	Material		Steel	Steel	Steel
	Finish		Painted	Painted	Painted
Rear clamp band, base bracket	Material		Steel	Steel	Steel
	Finish		Painted	Painted	Painted
Clamp screw	Material		Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-
Bottom bracket plate	Material		-	-	-
	Finish		-	-	-
Outer link	Material		Steel	Steel	Steel
	Finish		Painted	Painted	Painted
Inner link	Material		Steel	Steel	Steel
	Finish		Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel
	Finish		Chrome plated	Chrome plated	Chrome plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-
Stroke adjusting screw	Material		Stainless steel	Steel	Steel
	Finish		-	Zinc plated	Zinc plated
Average weight (g) (band type: L size, direct type w/ screw)			-	-	-
Note			* S-size adapter is available only OTC package		

Brake (V-BRAKE)

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

Crankset

Series		DEORE XT	DEORE	SHIMANO	SHIMANO	SHIMANO ALIVIO	SHIMANO
Model no.		FC-T8000	FC-T6010	FC-T551	FC-T521	FC-T4060	FC-T4010
Color	1	Series color	Series black	Black	Black	Black	Black
	2	-	-	Silver	Silver	Silver	-
Rear speeds		10	10	10	10	9	9
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
Chain line (mm)		50	50	50	50	50	50
P.C.D. (mm)		104/64	104/64	104/64	104/64	104/64	104/64
Spider/gear arms		4	4	4	4	4	4
Chainring combination		48-36-26T	48-36-26T	44-32-24T, 48-36-26T	44-32-24T, 48-36-26T	44-32-22T, 48-36-26T	44-32-22T, 48-36-26T
Q-factor (mm)		176	181.5	181.1	185.8	181.7	187.8
Crank arm length (mm)	165	-	-	-	-	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	✓	✓	✓	✓	✓	✓
	Without chain/bash guard	-	-	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	-	-	-	-
2-PIECE CRANKSET		-	-	✓	-	✓	-
HOLLOWTECH crank arm		-	-	-	✓	-	-
OCTALINK		-	-	-	✓	-	✓
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	-	✓	-
	OCTALINK	-	-	-	✓	-	✓
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-MT801	BB-MT501	BB-MT501	BB-ES300	BB-MT501	BB-ES300
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	BB-MT501	BB-MT501	-	BB-MT501	-
	Press-Fit	BB-MT800-PA	BB-MT500-PA	-	-	-	-
Axle length of BB-UN/ES (mm)		-	-	-	121-AK	-	126
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	-	Steel	-
	Finish	Plated	Plated	Plated	-	Plated	-
Spider arm	Material	Aluminum	Aluminum	-	Aluminum	-	Aluminum
	Finish	Painted	Painted	-	Painted	-	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Middle ring	Material	Aluminum	Steel	Steel+GF composite (44-32-24T), Aluminum (48-36-26T)	Steel+GF composite (44-32-24T), Steel (48-36-26T)	Steel	Steel
	Finish	Plated	Painted	Plated	Painted	Painted	Painted
Inner ring	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Painted	Plated	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	-	-	-	-	-
Inner ring fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	✓	✓	✓	✓	✓
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		868	-	-	-	-	-
Note							

Crankset

Series		SHIMANO
Model no.		FC-T3010
Color	1	Black
	2	Silver
Rear speeds		9
Compatible chain		HG 9-speed
Chain line (mm)		50
P.C.D. (mm)		104/64
Spider/gear arms		4
Chainring combination		44-32-22T, 48-36-26T
Q-factor (mm)		187.3
Crank arm length (mm)	165	✓
	167.5	-
	170	✓
	172.5	-
	175	✓
	177.5	-
	180	-
Optional chain guard	With bash guard	-
	With chain guard	✓
	Without chain/bash guard	✓
HOLLOWTECH II		-
2-PIECE CRANKSET		-
HOLLOWTECH crank arm		-
OCTALINK		-
HOLLOWGLIDE		-
Compatible bottom bracket type	Outboard	-
	OCTALINK	-
	Square	✓
Recommended bottom bracket	Threaded (normal)	BB-UN300
	Threaded (E-type)	-
	Threaded (chain case)	BB-UN300-K
	Press-Fit	-
Axle length of BB-UN/ES (mm)		LL123
Threaded bottom bracket shell width (mm)	68	✓
	73	✓
	83	-
Chain case compatible		✓
Crank arm	Material	Aluminum
	Finish	Painted
Crank axle	Material	-
	Finish	-
Spider arm	Material	-
	Finish	-
Spider arm cover	Material	-
	Finish	-
Outer ring	Material	Steel
	Finish	Painted
Middle ring	Material	Steel
	Finish	Painted
Inner ring	Material	Steel
	Finish	Painted
Outer/middle ring fixing bolt	Material	Stainless steel
	Finish	-
Inner ring fixing screw	Material	Stainless steel
	Finish	-
Stainless chain guard fixing screw		✓ (44-32-22T), - (48-36-26T)
Crank fixing screw included		✓
Average weight (g) (175 mm, w/o bottom bracket)		-
Note		

Front Hub (Rim/Disc Brake)

Series		DEORE	SHIMANO
Model no.		HB-T610	HB-T3000
Color	1 Hub shell	Black	Black
	1 Quick release	Black	Black
	2 Hub shell	-	Silver
	2 Quick release	-	Black
Brake type		Rim brake	Rim brake
O.L.D. (mm)		100	100
Spoke hole	28H	-	-
	32H	✓	✓
	36H	✓	✓
External serration disc brake rotor lock ring	With	-	-
	Without	-	-
CENTER LOCK mount cover option		-	-
Axle fixing method		Quick release	Quick release
Quick release skewer length (mm)	129	-	-
	133	✓	✓
Thru axle (length x inner diameter ; mm)	100 x 15	-	-
	110 x 15	-	-
	110 x 20	-	-
Flange distance (mm)		71.6	71.6
Offset (mm)		0	0
P.C.D. left / right (mm)		38/38	38/38
Flange diameter (mm)		48.4	48.4
Seal		Labyrinth+Contact	Contact
Internal grease sleeve		-	-
Bearing	Stainless ball	-	-
	Cup	-	-
	Cone	CBN	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Axle	Material	Steel	Steel
	Finish	-	-
Quick release lever	Material	Aluminum	Steel
	Finish	Painted	Plated
Quick release housing	Material	Aluminum	Steel
	Finish	Painted	Plated
Quick release nut	Material	Steel+Resin	Steel+Resin
	Finish	-	-
Average weight (g)		-	-
Note			

FREEHUB (Rim/Disc Brake)

Series		DEORE	SHIMANO
Model no.		FH-T610	FH-T3000
Color	1 Hub shell	Black	Black
	1 Quick release	Black	Black
	2 Hub shell	-	Silver
	2 Quick release	-	Black
Brake type		Rim brake	Rim brake
Rear speeds		11/10/9/8/7	11/10/9/8/7
O.L.D. (mm)		135	135
Spoke hole	28H	-	-
	32H	✓	✓
	36H	✓	✓
External serration disc brake rotor lock ring	With	-	-
	Without	-	-
Internal serration disc brake rotor lock ring	With	-	-
	Without	-	-
CENTER LOCK mount cover option		-	-
Axle fixing method		Quick release	Quick release
Quick release skewer length (mm)	166	-	✓
	168	✓	-
	170	-	✓
	173	✓	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-
	135 x 12	-	-
	142 x 12	-	-
	148 x 12	-	-
	150 x 12	-	-
Flange distance (mm)		59.2	59.2
Offset (mm)		7.8	7.5
P.C.D. left / right (mm)		44/45	45/45
Flange diameter left / right (mm)		53.8	53.8
Spline type	MICRO SPLINE	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-
	HG spline L (ROAD 12/11-speed)	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓	✓
	HG spline S (7-speed)	-	-
Seal	Hub	Labyrinth+Contact	Contact
	FREEHUB body	Contact	-
Internal grease sleeve		✓	-
Bearing	Stainless ball	-	-
	Cup	-	-
	Cone	CBN	-
FREEHUB body	Material	Steel	Steel
	Finish	-	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Axle	Material	Steel	Steel
	Finish	-	-
Quick release lever	Material	Aluminum	Steel
	Finish	Painted	Plated
Quick release housing	Material	Aluminum	Steel
	Finish	Painted	Plated
Quick release nut	Material	Steel+Resin	Steel+Resin
	Finish	-	-
Disc brake rotor lock ring	Material	-	-
	Finish	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		-	-
Note			

GRAVEL

		Page	
	Shift/Brake Lever (Hydraulic Disc Brake)	88	ST
	Shifter	91	SL
	Brake Lever (Hydraulic Disc Brake)	92	BL
	Brake Lever (Sub Lever for Hydraulic Disc Brake)	93	BL
	Brake Lever (Hydraulic Disc Brake, Flat Handlebar type)	94	BL
	Rear Derailleur	95	RD
	Front Derailleur	97	FD
	Brake (Hydraulic Disc Brake)	98	BR
	Crankset	100	FC
	Wheel (Disc Brake)	102	WH
<Di2 spec.>	Shift/Brake Lever (Hydraulic Disc Brake)	104	ST
	Rear Derailleur	105	RD
	Front Derailleur	106	FD

Shift/Brake Lever (Hydraulic Disc Brake)

Series			GRX	GRX	GRX	GRX	GRX	GRX
Model no.			ST-RX820-R	ST-RX820-L	ST-RX820-LA	ST-RX810-R	ST-RX810-R-LE	ST-RX810-L
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Bracket cover color	1		Standard	Standard	Standard	Standard	Standard	Standard
	2		-	-	-	-	-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER	Single lever for dropper seat post	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds		-	2	1	-	-	2
	Rear speeds		12	-	-	11	11	-
	Max. multiple shifts (main lever/rear)		2	-	-	2	2	-
	Multi-bearing construction		-	-	-	-	-	-
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-RS900	-	-	OT-RS900	OT-RS900	OT-RS900
	Inner cable	Polymer-coated cable	✓	✓	-	✓	✓	✓
		OPTISLICK	-	-	✓	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
		Steel	-	-	-	-	-	-
Brake lever	Brake hose (kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR
	Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
	Recommended brake caliper		BR-RX820	BR-RX820	BR-RX820	BR-RX810, BR-RX820	BR-RX820-LE	BR-RX810, BR-RX820
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓	✓	✓	✓	✓
	Funnel bleeding		✓	✓	✓	✓	✓	✓
	Free stroke adjust		✓	✓	✓	✓	✓	✓
	SERVO WAVE		✓	✓	✓	✓	✓	✓
	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp band	Diameter (mm)		23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
Bracket	Material		Engineering composite	Engineering composite	Engineering composite	Engineering composite	Engineering composite	Engineering composite
	Finish		-	-	-	-	-	-
Clamp band	Material		Steel	Steel	Steel	Steel	Steel	Steel
Average weight (g)			289	283	263	286	286	284
Note								

Shift/Brake Lever (Hydraulic Disc Brake)

Series			GRX	GRX	GRX	GRX	GRX	GRX
Model no.			ST-RX810-L-LE	ST-RX810-LA	ST-RX610-R	ST-RX610-L	ST-RX600-R	ST-RX600-L
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Bracket cover color	1		Standard	Standard	Standard	Standard	Standard	Standard
	2		-	-	-	-	-	-
Shifter type			DUAL CONTROL LEVER	Single lever for adjustable seat post	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds		2	1	-	2	-	2
	Rear speeds		-	-	12	-	11	-
	Max. multiple shifts (main lever/rear)		-	-	2	-	2	-
	Multi-bearing construction		-	-	-	-	-	-
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-RS900	-	OT-RS900	-	OT-RS900	OT-RS900
	Inner cable	Polymer-coated cable	✓	-	-	-	-	-
		OPTISLICK	-	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
		Steel	-	-	-	-	-	-
Brake lever	Brake hose (kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR
	Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
	Recommended brake caliper		BR-RX820-LE	BR-RX810, BR-RX820	BR-RX400, BR-RX410	BR-RX400, BR-RX410	BR-RX810, BR-RX410	BR-RX810, BR-RX410
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓	✓	✓	✓	✓
	Funnel bleeding		✓	✓	✓	✓	✓	✓
	Free stroke adjust		✓	✓	-	-	-	-
	SERVO WAVE		✓	✓	-	-	-	-
	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp band	Diameter (mm)		23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
Bracket	Material		Engineering composite	Engineering composite	Engineering composite	Engineering composite	Engineering composite	Engineering composite
	Finish		-	-	-	-	-	-
Clamp band	Material		Steel	Steel	Steel	Steel	Steel	Steel
Average weight (g)			284	263	610 (/pair)	610 (/pair)	307	306
Note								

Shift/Brake Lever (Hydraulic Disc Brake)

Series			GRX	GRX
Model no.			ST-RX400-R	ST-RX400-L
Color	1		Series color	Series color
	2		-	-
Bracket cover color	1		Standard	Standard
	2		-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds		-	2
	Rear speeds		10	-
	Max. multiple shifts (main lever/rear)		2	-
	Multi-bearing construction		-	-
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41
		Rear derailleur side	OT-RS900	OT-RS900
	Inner cable	Polymer-coated cable	-	-
		OPTISLICK	✓	✓
		SIL-TEC	-	-
		Stainless	-	-
		Steel	-	-
Brake lever	Brake hose (kit)		SM-BH90-JK-SSR SM-BH90-J-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR
	Hose joint		Straight	Straight
	Brake hose color (kit)	1	Black	Black
		2	-	-
	Recommended brake caliper		BR-RX400, BR-RX410	BR-RX400, BR-RX410
	Oil		SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓
	Funnel bleeding		✓	✓
	Free stroke adjust		-	-
	SERVO WAVE		-	-
	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Clamp band	Diameter (mm)		23.8-24.2	23.8-24.2
Bracket	Material		Engineering composite	Engineering composite
	Finish		-	-
Clamp band	Material		Steel	Steel
Average weight (g)			307	306
Note				

Shifter

Series			GRX
Model no.			SL-RS700-R-LE
Color	1		Black
	2		-
Shifter type			RAPIDFIRE PLUS
Front speeds			-
Rear speeds			11
Compatible rear derailleur type			ROAD 11-speed
Mount type	Clamp band		✓
	I-SPEC B		-
	I-SPEC II		-
Shift lever position adjust			-
Shift lever cable adjust			✓
Max. multiple shifts (main lever/rear)			4
Release function	MULTI RELEASE		*✓
	INSTANT RELEASE		✓
	2-WAY RELEASE		✓
OPTICAL GEAR DISPLAY	With		-
	With (removable)		-
	Without		✓
Multi-bearing construction			2
Shift lever bracket	Material		Aluminum
	Finish		Painted
Clamp screw	Material		-
	Finish		-
Main lever body	Material		CFRP
	Finish		Painted
Release lever body	Material		Steel+GFRP
	Finish		-
Shift lever cable	Inner cable	Polymer-coated cable	-
		OPTISLICK	-
		SIL-TEC	✓
		Stainless	✓
		Steel	-
Recommended shift lever outer casing			OT-SP41
Average weight (g)			110
Note			* Pull: single Push: double

Brake Lever (Hydraulic Disc Brake)

Series		GRX	GRX	GRX	GRX	GRX
Model no.		BL-RX820-L	BL-RX810-L	BL-RX810-L-LE	BL-RX610-L	BL-RX600-L
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		-	-	-	-	-
Color	1	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-
Bracket cover color	1	Standard	Standard	Standard	Standard	Standard
	2	-	-	-	-	-
Brake hose (kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR
Hose joint		Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black
	2	-	-	-	-	-
SERVO WAVE		✓	✓	✓	-	-
Reach adjust	Toolless	-	-	-	-	-
	Tool	✓	✓	✓	✓	✓
Free stroke adjust		✓	✓	✓	-	-
Clamp band	I-SPEC	-	-	-	-	-
	Open clamp	-	-	-	-	-
	Diameter (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
Recommended brake caliper		BR-RX820	BR-RX810, BR-RX820	BR-RX820-LE	BR-RX400, BR-RX410	BR-RX810, BR-RX410
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓	✓	✓	✓
Clamp band	Material	Steel	Steel	Steel	Steel	Steel
Bracket	Material	Engineering composite	Engineering composite	Engineering composite	Engineering composite	Engineering composite
	Finish	-	-	-	-	-
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Master cylinder	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Average weight (g)		222	222	222	543 (ST-RX610-R+BL-RX610-L)	227
Note						

Brake Lever (Sub Lever for Hydraulic Disc Brake)

Series		GRX	GRX
Model no.		BL-RX812-R	BL-RX812-L
Brake type		Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		1	1
Color	1	Neutral	Neutral
	2	-	-
	3	-	-
Brake hose (kit)		-	-
Hose joint		Straight	Straight
Brake hose color (kit)	1	Black	Black
	2	-	-
SERVO WAVE		-	-
Reach adjust	Toolless	-	-
	Tool	✓	✓
Free stroke adjust		-	-
Clamp band	New band	✓	✓
	I-SPEC B	-	-
	I-SPEC II	-	-
	Open clamp	-	-
Recommended brake caliper		BR-RX810	BR-RX810
Oil		SHIMANO mineral	SHIMANO mineral
Funnel bleeding		✓	✓
Clamp screw	Material	Stainless steel	Stainless steel
	Finish	-	-
Brake lever	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Average weight (g)		79	79
Note		-	-

Brake Lever (Hydraulic Disc Brake, Flat Handlebar type)

Series		GRX	GRX
Model no.		BL-T8100-R-LE	BL-T8100-L-LE
Brake type		Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		3	3
Color	1	Series color	Series color
	2	-	-
	3	-	-
Brake hose (kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR
Hose joint		Straight	Straight
Brake hose color (kit)	1	Black	Black
	2	-	-
J-Kit spec (for OEM)		-	-
SERVO WAVE		-	-
Reach adjust	Toolless	✓	✓
	Tool	-	-
Free stroke adjust		-	-
Compatible shifter mount	Clamp band	✓	✓
	I-SPEC B	-	-
	I-SPEC II	✓	✓
	I-SPEC EV	-	-
Clamp band	Open clamp	✓	✓
Recommended brake caliper		BR-RX820-LE	BR-RX820-LE
Oil		SHIMANO mineral	SHIMANO mineral
Funnel bleeding		✓	✓
Clamp screw	Material	Stainless steel	Stainless steel
	Finish	Painted	Painted
Brake lever	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Average weight (g)		108	108
Note			

Rear Derailleur

Series			GRX	GRX	GRX	GRX	GRX	GRX
Model no.			RD-RX820	RD-RX822-GS	RD-RX822-SGS	RD-RX810	RD-RX810-LE	RD-RX812
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			12	12	12	11	11	11
Compatible chain			HG 12-speed	HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
RD construction	SHIMANO SHADOW RD		-	-	-	-	-	-
	SHIMANO SHADOW RD+		✓	✓	✓	✓	✓	✓
	Double servo		-	-	-	-	-	-
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	-	-	-	-	-	-
		Direct mount	-	-	-	-	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
		Direct mount	✓	-	-	✓	✓	✓
	UDH standard		✓	✓	✓	-	-	-
	Riveted adapter	ROAD type	-	-	-	-	-	-
		BMX-track type	-	-	-	-	-	-
Cable adjuster			✓	✓	✓	✓	✓	✓
Max. front difference			17T	-	-	17T	17T	-
Total capacity			42T	35T	41T	40T	40T	31T
Low sprocket	Max.		36T	45T	51T	34T	34T	42T
	Min.		34T	45T	51T	30T	30T	40T
Top sprocket	Max.		11T	10T	10T	11T	11T	11T
	Min.		11T	10T	10T	11T	11T	11T
Fluoric coated link bushings			4	6	6	4	4	4
Pulley	Guide pulley bearing		✓	✓	✓	✓	✓	✓
	Tension pulley bearing		✓	✓	✓	✓	✓	✓
	Teeth		11/13T	13T	13T	13T	13T	11T
	Screws material		SUS	SUS	SUS	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓	✓	✓	✓	✓
Bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Anodized	Anodized	Anodized
B-axle	Hollow axle		✓	✓	✓	✓	✓	✓
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Passivation	Passivation	Passivation	-	-	-
B-axle 2	Hollow axle		-	-	-	-	-	-
	Material		Aluminum	-	-	Aluminum	Aluminum	Aluminum
	Finish		Anodized	-	-	Anodized	Anodized	Anodized
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	-	-	-	-	-
Plate body	Material		GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish		-	-	-	-	-	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		GFRP	Aluminum	Aluminum	GFRP	GFRP	Aluminum
	Finish		-	Painted	Painted	-	-	Painted
Outer plate	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Anodized	Painted
Inner plate	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Anodized	Painted
Cable fixing screw	Material		Stainless steel	Steel	Steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Passivation	Passivation	Passivation	Passivation	Passivation	Passivation
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)			270	290	288	255	255	267
Note						-		-

Rear Derailleur

Series			GRX	GRX
Model no.			RD-RX812-LE	RD-RX400
Color	1		Series color	Series color
	2		-	-
Rear speeds			11	10
Compatible chain			LINKGLIDE, HG 11-speed	HG-X 10-speed
RD construction	SHIMANO SHADOW RD		-	-
	SHIMANO SHADOW RD+		✓	✓
	Double servo		-	-
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	-	-
		Direct mount	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	✓	✓
		Direct mount	✓	✓
	UDH standard		-	-
	Riveted adapter	ROAD type	-	-
		BMX-track type	-	-
Cable adjuster			✓	✓
Max. front difference			-	16T
Total capacity			31T	41T
Low sprocket	Max.		42T	36T
	Min.		40T	32T
Top sprocket	Max.		11T	11T
	Min.		11T	11T
Fluoric coated link bushings			4	4
Pulley	Guide pulley bearing		✓	-
	Tension pulley bearing		✓	-
	Teeth		11T	11T
	Screws material		Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓
Bracket	Material		Aluminum	Steel
	Finish		Anodized	Painted
B-axle	Hollow axle		✓	✓
	Material		Stainless steel	Stainless steel
	Finish		-	-
B-axle 2	Hollow axle		-	-
	Material		Aluminum	Stainless steel
	Finish		Anodized	-
Bracket body	Material		Aluminum	Aluminum
	Finish		Painted	Painted
P-axle	Material		Steel	Steel
	Finish		-	-
Plate body	Material		GFRP	GFRP
	Finish		-	-
Outer link	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Inner link	Material		Aluminum	GFRP
	Finish		Painted	-
Outer plate	Material		Aluminum	Steel
	Finish		Anodized	Painted
Inner plate	Material		Aluminum	Steel
	Finish		Anodized	Painted
Cable fixing screw	Material		Stainless steel	Steel
	Finish		Passivation	Plated
Stroke adjusting screw	Material		Steel	Steel
	Finish		Plated	Plated
Average weight (g)			267	303
Note				-

Front Derailleur

Series			GRX	GRX	GRX	GRX
Model no.			FD-RX820	FD-RX810-F	FD-RX810-F-LE	FD-RX400-F
Color	1		Series color	Series color	Series color	Series color
	2		-	-	-	-
Front speeds			2	2	2	2
Rear speeds			12	11	11	10
Compatible chain			HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG-X 10-speed
Action	TOP SWING		-	-	-	-
	Down swing		✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	-	-	-	-
		31.8	-	-	-	-
		34.9	-	-	-	-
	Brazed-on		✓	✓	✓	✓
Cable adjust			✓	✓	✓	✓
Cable route type	Top-pull exclusive		-	-	-	-
Chain line (mm)			47	47	47	47
Chainstay angle (deg.)			63-66	63-66	63-66	63-66
Top gear teeth			46-48T	46-48T	46-48T	46T
Total capacity			17T	17T	17T	16T
Applicable top-mid tooth difference			-	-	-	-
Angled clamp band design			-	-	-	-
Multi-bearing construction			-	-	-	-
Link bushings			7	7	7	7
Front clamp band	Material		-	-	-	-
	Finish		-	-	-	-
Rear clamp band, base bracket	Material		-	-	-	-
	Finish		-	-	-	-
Outer link	Material		GFRP	GFRP	GFRP	GFRP
	Finish		Painted	Painted	Painted	Painted
Inner link	Material		Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated
Chain guide	Material		Steel	Steel	Steel	Steel
	Finish		Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing screw	Material		Steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Plated	-	-	-
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel
	Finish		Plated	Black	Black	Black
Average weight (g) (band type: L size, direct type w/ screw)			96	96	96	96
Note						

Brake (Hydraulic Disc Brake)

Series		GRX	GRX	GRX	GRX	GRX	GRX
Model no.		BR-RX820	BR-RX820-LE	BR-RX810-F	BR-RX810-R	BR-RX410-F	BR-RX410-R
Color	1	Series color	Series color	Series color	Series color	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-J-SSR SM-BH90-JK-SSR	SM-BH90-J-SSR SM-BH90-JK-SSR
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
J-Kit spec (for OEM)		✓	-	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	✓	✓	✓	✓	✓
Pad	Standard 1	K05S-RX Resin (w/o fin)	L05A-RF Resin (w/ fin)	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)
	Standard 2	L05A-RF Resin (w/ fin)	K05S-RX Resin (w/o fin)	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)
	Option 1	L04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)	K04S-MX Metal (w/o fin)	K04S-MX Metal (w/o fin)	L04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)
	Option 2	-	-	L04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)	-	-
Fixing screw spec for rear mount	10 mm mount	✓	-	-	✓	-	✓
	15 mm mount	✓	-	-	✓	-	✓
	20 mm mount	✓	-	-	✓	-	✓
	25 mm mount	✓	✓	-	✓	-	✓
	30 mm mount	✓	-	-	✓	-	✓
	35 mm mount	✓	-	-	✓	-	✓
Recommended brake lever		ST-RX820 ST-RX820-LA BL-RX820-L ST-RX825	ST-RX810-LE BL-RX810-L-LE BL-T8100-LE	ST-RX810 BL-RX810 ST-RX815	ST-RX810 BL-RX810 ST-RX815	ST-RX610	ST-RX610
Recommended disc brake rotor		RT-CL800	SM-RT800, RT-MT800	SM-RT800, RT-MT800	SM-RT800, RT-MT800	SM-RT70, SM-RT64	SM-RT70, SM-RT64
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓	✓
Mount type		Flat mount	Flat mount	Flat mount	Flat mount	Flat mount	Flat mount
Piston		2	2	2	2	2	2
Piston material		Resin	Resin	Ceramic	Ceramic	Resin	Resin
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painting	Painted	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	4 mm	4 mm	4 mm	4 mm	4 mm	4 mm
	Anti loosen method	Screw fix pin+Snap ring	Screw fix pin+Snap ring	Screw fix pin+Snap ring	Screw fix pin+Snap ring	Screw fix pin+Snap ring	Screw fix pin
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		139 (Front) 122 (Rear)	139 (Front) 122 (Rear)	141	124	-	-
Note			Front spec with adaptor	Front spec with adaptor	Front spec with adaptor	Front spec with adaptor	Front spec with adaptor

Brake (Hydraulic Disc Brake)

Series		GRX	GRX
Model no.		BR-RX400-F	BR-RX400-R
Color	1	Series color	Series color
	2	-	-
	3	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR
Hose joint		Straight	Straight
Brake hose color (kit)	1	Black	Black
	2	-	-
J-Kit spec (for OEM)		✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	✓
Pad	Standard 1	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)
	Standard 2	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)
	Option 1	K04S-MX Metal (w/o fin)	K04S-MX Metal (w/o fin)
	Option 2	L04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)
Fixing screw spec for rear mount	10 mm mount	-	✓
	15 mm mount	-	✓
	20 mm mount	-	✓
	25 mm mount	-	✓
	30 mm mount	-	✓
	35 mm mount	-	✓
Recommended brake lever		ST-RX400 ST-RX600 BL-RX600	ST-RX400 ST-RX600 BL-RX600
Recommended disc brake rotor		SM-RT70, SM-RT64	SM-RT70, SM-RT64
Oil		SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓
Mount type		Flat mount	Flat mount
Piston		2	2
Piston material		Resin	Resin
Caliper	MONO-BODY	-	-
	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Caliper fixing screw	Material	Steel	Steel
	Tool size	4 mm	4 mm
	Anti loosen method	Screw fix pin+Snap ring	Screw fix pin+Snap ring
Pad mount		Pad axle	Pad axle
Average weight (g)		-	-
Note		Front spec with adaptor	Front spec with adaptor

Crankset

Series		GRX	GRX	GRX	GRX	GRX	GRX
Model no.		FC-RX820-2	FC-RX820-1	FC-RX810-2	FC-RX810-1	FC-RX810-11-2-LE	FC-RX810-11-1-LE
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12	12	11	11	11	11
Compatible chain		HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Chain line (mm)		47	49.7	47	49.7	47	49.7
P.C.D. (mm)		110/80	110	110/80	110	110/80	110
Spider/gear arms		4	4	4	4	4	4
Chainring combination		48-31T	40T, 42T	48-31T	40T, 42T	48-31T	40T
Q-factor (mm)		151	151	151	151	151	151
Crank arm length (mm)	165	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	✓	✓	✓
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	✓	✓	✓	✓
2-PIECE CRANKSET		-	-	-	-	-	-
HOLLOWTECH crank arm		✓	✓	✓	✓	✓	✓
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BBR60	SM-BBR60	SM-BBR60	SM-BBR60	SM-BBR60	SM-BBR60
	Press-Fit	SM-BB72	SM-BB72	SM-BB72	SM-BB72	SM-BB72	SM-BB72
Axle length of BB-UN/ES (mm)		-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized (teeth)/Painted (body)	Anodized	Anodized (teeth)/Painted (body)	Anodized	Anodized (teeth)
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	-	Aluminum	-	Aluminum	-
	Finish	Anodized	-	Anodized	-	Anodized	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		710	644 (40T) 656 (42T)	710	644 (40T) 656 (42T)	710	644
Note							

Crankset

Series		GRX	GRX	GRX	GRX	GRX
Model no.		FC-RX610-2	FC-RX610-1	FC-RX600-11	FC-RX600-10	FC-RX600-1
Color	1	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-
Rear speeds		12	12	11	10	11
Compatible chain		HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed	HG 10-speed	LINKGLIDE, HG 11-speed
Chain line (mm)		47	49.7	47	47	49.7
P.C.D. (mm)		110/80	110	110/80	110/80	110
Spider/gear arms		4	4	4	4	4
Chainring combination		46-30T	38T, 40T	46-30T	46-30T	40T
Q-factor (mm)		151	151	151	151	151
Crank arm length (mm)	165	✓	✓	✓	✓	✓
	167.5	-	-	-	-	-
	170	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	✓	✓
	175	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-
	180	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	-	-	-
2-PIECE CRANKSET		✓	✓	✓	✓	✓
HOLLOWTECH crank arm		✓	✓	-	-	-
OCTALINK		-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-
	Square	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-RS501	BB-RS501	BB-RS501	BB-RS501	BB-RS501
	Press-Fit	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB
Axle length of BB-UN/ES (mm)		-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Outer ring	Material	Aluminum	Steel	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Anodized	Anodized	Anodized (teeth)/Painted (body)
Middle ring	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Inner ring	Material	Aluminum	-	Aluminum	Aluminum	-
	Finish	Anodized	-	Anodized	Anodized	-
Outer/middle ring fixing bolt	Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
	Finish	-	-	-	-	-
Inner ring fixing screw	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		811	791 (38T) 812 (40T)	817	821	754
Note						

Wheel (Disc Brake)

Series		GRX	GRX	SHIMANO	SHIMANO	GRX	GRX
Model no.		WH-RX870-TL-F12-700C	WH-RX870-TL-R12-700C	WH-RX880-TL-F12-700C	WH-RX880-TL-R12-700C	WH-RX570-TL-F12-700C	WH-RX570-TL-F12-650B
Model name		WH-RX870-TL	WH-RX870-TL	WH-RX880-TL	WH-RX880-TL	WH-RX570-TL	WH-RX570-TL
Specification		F12-700C	R12-700C	F12-700C	R12-700C	F12-700C	F12-650B
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Rear	Front	Rear	Front	Front
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		-	12/11	-	12	-	-
O.L.D. (mm)		100	142	100	142	100	100
Wheel size		622 x 25C (700C)	622 x 25C (700C)	622 x 25C (700C)	622 x 25C (700C)	622 x 21C (700C)	584 x 21C (650B)
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	32-622 - 50-622	32-622 - 50-622	32-622 - 50-622	32-622 - 50-622	32-622 - 42-622	38-584 - 53-584
Rim	Height (mm)	32	32	32	32	22	22
	Internal width (mm)	25	25	25	25	21.6	21.6
	External width (mm)	30.7	30.7	30.7	30.7	26	26
	Rim joint	-	-	-	-	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	✓	✓
	Requires rim tape	✓	✓	✓	✓	✓	✓
Spokes	Number	24	24	24	24	24	24
	Straight pull	✓	✓	-	-	✓	✓
	Bladed	✓	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	-	-
	Diameter (mm)	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2	2
Axle fixing method		E-THRU	E-THRU	E-THRU	E-THRU	E-THRU	E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-	-
	163	-	-	-	-	-	-
	168	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 12	✓	-	✓	-	✓	✓
	142 x 12	-	✓	-	✓	-	-
Spline type	MICRO SPLINE	-	-	-	✓	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	✓	-	-
	HG spline L (ROAD 12/11-speed)	-	✓	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	Pawl ratchet	-	Direct engagement	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish	Polish
	Cone	CBN+Polish	CBN+Polish	CBN+Polish	CBN+Polish	CBN	CBN
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-	-	-
	140 mm disc brake rotor compatible	✓	✓	✓	✓	✓	✓
OPTBAL (2:1)		-	-	-	-	-	-
D2 rim		-	-	-	-	-	-
Digital adjustment system		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-	-
Internal grease sleeve		-	-	-	-	✓	✓
Rim	Material	Carbon	Carbon	Carbon	Carbon	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black	Black	Black	Black	Black	Black
FREEHUB body	Material	-	Steel	-	Aluminum	-	-
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Compatible spoke protector		-	CP-WH30(11-34T) CP-WH26(11-40T/42T)	-	CP-WRX8A(34T/36T) CP-WRX8B(45T/51T)	-	-
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 (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		639	822	635	762 (HG-spline L2) 759 (MICRO SPLINE)	769	737
Note							

Wheel (Disc Brake)

Series		GRX	GRX
Model no.		WH-RX570-TL-R12-700C	WH-RX570-TL-R12-650B
Model name		WH-RX570-TL	WH-RX570-TL
Specification		R12-700C	R12-650B
Color	1 Hub shell	Black	Black
	1 Quick release	-	-
	2 Hub shell	-	-
	2 Quick release	-	-
Front/Rear		Rear	Rear
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		11/10	11/10
O.L.D. (mm)		142	142
Wheel size		622 x 21C (700C)	584 x 21C (650B)
Tire	Type	Tubeless	Tubeless
	Recommended size	32-622 - 42-622	38-584 - 53-584
Rim	Height (mm)	22	22
	Internal width (mm)	21.6	21.6
	External width (mm)	26	26
	Rim joint	Welded	Welded
	Brazed reinforcement	-	-
	OFFSET RIM	✓	✓
	Requires rim tape	✓	✓
Spokes	Number	24	24
	Straight pull	✓	✓
	Bladed	✓	✓
	Butted	-	-
	Diameter (mm)	2	2
Axle fixing method		E-THRU	E-THRU
Quick release skewer length (mm)	133	-	-
	163	-	-
	168	-	-
Thru axle (length x inner diameter ; mm)	100 x 12	-	-
	142 x 12	✓	✓
Spline type	MICRO SPLINE	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-
	HG spline L (ROAD 12/11-speed)	✓	✓
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-
	HG spline S (7-speed)	-	-
Engagement type		Pawl ratchet	Pawl ratchet
Bearing	Stainless ball	-	-
	Cup	Polish	Polish
	Cone	CBN	CBN
Disc mount	CENTER LOCK	✓	✓
	CENTER LOCK mount cover option	-	-
	140 mm disc brake rotor compatible	✓	✓
OPTBAL (2:1)		-	-
D2 rim		-	-
Digital adjustment system		-	-
Seal	Hub	Contact	Contact
	FREEHUB body	Contact	Contact
Internal grease sleeve		✓	✓
Rim	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel
	Finish	Black	Black
Nipple	Material	Aluminum	Aluminum
	Finish	Black	Black
FREEHUB body	Material	Steel	Steel
	Finish	-	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Axle	Material	Aluminum	Aluminum
	Finish	-	-
Quick release lever	Material	-	-
	Finish	-	-
Quick release housing	Material	-	-
	Finish	-	-
Quick release nut	Material	-	-
	Finish	-	-
Compatible spoke protector		CP-FH08 (23-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 10/11-speed)	CP-FH08 (23-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 10/11-speed)
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		951	920
Note			

Shift/Brake Lever (Hydraulic Disc Brake)

Series			GRX	GRX	GRX	GRX
Model no.			ST-RX825-R	ST-RX825-L	ST-RX815-R	ST-RX815-L
Color	1		Series color	Series color	Series color	Series color
	2		-	-	-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Remote switch			✓	✓	✓	✓
Brake lever	Brake hose (kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR
	Hose joint		Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black
		2	-	-	-	-
	Recommended brake caliper		BR-RX820	BR-RX820	BR-RX810, BR-RX820	BR-RX810, BR-RX820
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓	✓	✓
	Clamp band (mm)		23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
	Funnel bleeding		✓	✓	✓	✓
	Free stroke adjust		✓	✓	✓	✓
	SERVO WAVE		✓	✓	✓	✓
	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted
Bracket	Material		CFRP	CFRP	CFRP	CFRP
	Finish		-	-	-	-
Electric button	Material		GFRP	GFRP	-	-
	Finish		-	-	-	-
Di2 connectivity wired	Di2 shifting		-	-	✓	✓
Di2 connectivity wireless	Di2 shifting		✓	✓	-	-
Master unit			-	-	-	-
Firmware update by E-TUBE PROJECT			✓	✓	✓	✓
SD50 port (pcs)			0	0	2	2
SD300 port (pcs)			1	1	0	0
SD50 connector (pcs)			0	0	0	0
SD300 connector (pcs)			0	0	0	0
Port for SD50 remote sprinter shifter (pcs)			0	0	0	0
Port for SD300 satellite shifter (pcs)			1	1	0	0
Battery			CR1632 x 2	CR1632 x 2	-	-
Average weight (g)			415 (/pair)	415 (/pair)	373 (/pair)	373 (/pair)
Note						

Rear Derailleur

Series			GRX	GRX	GRX
Model no.			RD-RX825	RD-RX815	RD-RX817
Color	1		Series color	Series color	Series color
	2		-	-	-
Rear speeds			12	11	11
RD construction	SHIMANO SHADOW RD		-	-	-
	SHIMANO SHADOW RD+		✓	✓	✓
	Double servo		-	-	-
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	-	-	-
		Direct mount	-	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	✓	✓	✓
		Direct mount	✓	✓	✓
	UDH standard		✓	-	-
Max. front difference			17T	17T	-
Total capacity			40T	38T	31T
Low sprocket	Max.		36T	34T	42T
	Min.		34T	30T	40T
Top sprocket	Max.		11T	11T	11T
	Min.		11T	11T	11T
Fluoric coated link bushings			4	4	4
Pulley	Guide pulley bearing		Sealed bearing	Sealed bearing	Sealed bearing
	Tension pulley bearing		Sealed bearing	Sealed bearing	Sealed bearing
	Teeth		11/13T	13T	11T
	Screws material		Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓		
Bracket	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Anodized	Anodized
B-axle	Hollow axle		✓	✓	✓
	Material		Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-
B-axle 2	Hollow axle		✓	-	-
	Material		Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized
Bracket body	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel
	Finish		-	Plated	Plated
Plate body	Material		GFRP	GFRP	Aluminum
	Finish		-	Painted	Painted
Outer link	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Anodized	Painted
Inner link	Material		GFRP	GFRP	Steel
	Finish		-	-	GFRP
Outer plate	Material		Aluminum	Aluminum	-
	Finish		Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted
Stroke adjusting screw	Material		Steel	Steel	Steel
	Finish		Plated	Plated	Plated
Di2 connectivity wired	Di2 shifting		✓	✓	✓
Di2 connectivity wireless	Di2 shifting		✓	-	-
	Bluetooth® LE	Cycling power	-	-	-
	ANT+	Bicycle power	-	-	-
	Bluetooth® LE custom (*1)	Adjust mode information	✓	-	-
		Di2 battery level	✓	-	-
		Gear position	✓	-	-
		SHIMANO E-BIKE SYSTEMS data items (*3)	✓	-	-
		Compatible with E-TUBE RIDE	✓	-	-
		Compatible with E-TUBE PROJECT	✓	-	-
	ANT private (*2)	Adjust mode information	✓	-	-
		Di2 battery level	✓	-	-
		Gear position	✓	-	-
		SHIMANO E-BIKE SYSTEMS data items (*3)	✓	-	-
Firmware update by E-TUBE PROJECT			✓	✓	✓
SD50 port (pcs)			0	1	1
SD300 port (pcs)			1	0	0
SD50 connector (pcs)			0	0	0
SD300 connector (pcs)			0	0	0
LED for system status			✓	-	-
Charging port			✓	-	-
Charging cable			EW-EC300	-	-
Average weight (g)			310	287	318
Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile. *3 Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.			w/o Bracket spec. available		

Front Derailleur

Series		GRX	GRX
Model no.		FD-RX825	FD-RX815-F
Color	1	Series color	Series color
	2	-	-
Front speeds		2	2
Rear speeds		12	11
Compatible chain		HG 12-speed	LINKGLIDE, HG 11-speed
Action	TOP SWING	-	-
	Down swing	✓	✓
Mount	Clamp band1	-	-
	Clamp band2	-	-
	Clamp band3	-	-
	Brazed-on	✓	✓
Chain line (mm)		47	47
Chainstay angle (deg.)		63-66	61-66
Top gear teeth		46-48T	46-48T
Total capacity		17T	17T
Link bushings		2	2
Front clamp band	Material	-	-
	Finish	-	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum
	Finish	Anodized	Painted
Outer link	Material	GFRP	CFRP
	Finish	-	Painted
Inner link	Material	Steel	Steel
	Finish	Plated	Plated
Chain guide	Material	Steel	Steel
	Finish	Chrome plated	Chrome plated
Master unit		-	-
Firmware update by E-TUBE PROJECT		✓	✓
SD50 port (pcs)		0	1
SD300 port (pcs)		1	0
SD50 connector (pcs)		0	0
SD300 connector (pcs)		0	0
Average weight (g) (band type: L size, direct type w/ screw)		142	135
Note			

ROAD

		Page	
	Shift/Brake Lever (Hydraulic Disc Brake)	108	ST
	Shift/Brake Lever	112	ST
	Shifter	116	SL
	Brake Lever (Hydraulic Disc Brake)	119	BL
	Brake Lever	120	BL
	Brake (Hydraulic Disc Brake)	122	BR
	Brake (Mechanical Disc Brake)	125	BR
	Brake (Caliper Brake)	126	BR
	Brake (V-BRAKE)	131	BR
	Brake (Cantilever Brake)	131	BR
	Brake Cable	131	BC
	Rear Derailleur	132	RD
	Front Derailleur	136	FD
	Crankset	141	FC
	Crankset (Power Meter)	146	FC
	Bottom Bracket (HOLLOWTECH II)	147	BB
	Bottom Bracket	148	BB
	Cassette	149	CS
	Front Hub (Rim/Disc Brake)	152	HB
	FREEHUB (Rim/Disc Brake)	154	FH
	Wheel (Disc Brake)	156	WH
	Wheel (Rim Brake)	161	WH
	Head Parts	166	HP
<Di2 spec.>	Shift/Brake Lever (Hydraulic Disc Brake)	167	ST
	Shift/Brake Lever	169	ST
	Shift Switch	171	SW
	Rear Derailleur	172	RD
	Front Derailleur	174	FD
	Front Derailleur (Adapter)	174	SMAD

Shift/Brake Lever (Hydraulic Disc Brake)

Series			DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.			ST-R9120-R	ST-R9120-L	ST-R8020-R	ST-R8020-L	ST-R8025-R	ST-R8025-L
Color	1		Series color	Series color	Series color	Series color	Black	Black
	2		-	-	-	-	-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds		-	2	-	2	-	2
	Rear speeds		11	-	11	-	11	-
	Max. multiple shifts (main lever/rear)		2	-	2	-	2	-
	Multi-bearing construction		-	-	-	-	-	-
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-RS900	OT-RS900	OT-RS900	OT-RS900	OT-RS900	OT-RS900
	Inner cable	Polymer-coated cable	✓	✓	✓	✓	✓	✓
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
		Steel	-	-	-	-	-	-
Brake lever	Brake hose (kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR
	Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
	Recommended brake caliper		BR-R9170	BR-R9170	BR-R8070	BR-R8070	BR-R8070	BR-R8070
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓	✓	✓	✓	✓
	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
	Funnel bleeding		✓	✓	✓	✓	✓	✓
	Free stroke adjust		✓	✓	✓	✓	✓	✓
	SERVO WAVE		✓	✓	✓	✓	✓	✓
	Material		CFRP	CFRP	Engineering composite	Engineering composite	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Bracket	Material		Engineering composite	Engineering composite	Engineering composite	Engineering composite	Engineering composite	Engineering composite
	Finish		-	-	-	-	-	-
Clamp band	Material		Titanium	Titanium	Steel	Steel	Steel	Steel
Average weight (g)			538 (/pair)	538 (/pair)	554 (/pair)	554 (/pair)	568 (/pair)	568 (/pair)
Note							For small hand.	For small hand.

Shift/Brake Lever (Hydraulic Disc Brake)

Series			SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105
Model no.			ST-R7120-R	ST-R7120-L	ST-R7020-R	ST-R7020-L	ST-R7025-R	ST-R7025-L
Color	1		Series color	Series color	Silky black	Silky black	Silky black	Silky black
	2		-	-	-	-	-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds		-	2	-	2	-	2
	Rear speeds		12	-	11	-	11	-
	Max. multiple shifts (main lever/rear)		2	-	2	-	2	-
	Multi-bearing construction		-	-	-	-	-	-
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-RS900	OT-RS900	OT-RS900	OT-RS900	OT-RS900	OT-RS900
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
		Steel	-	-	-	-	-	-
Brake lever	Brake hose (kit)		SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR
	Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
	Recommended brake caliper		BR-R7170	BR-R7170	BR-R7070, BR-R7170	BR-R7070, BR-R7170	BR-R7070, BR-R7170	BR-R7070, BR-R7170
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓	✓	✓	✓	✓
	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
	Funnel bleeding		✓	✓	✓	✓	✓	✓
	Free stroke adjust		-	-	-	-	-	-
	SERVO WAVE		-	-	-	-	-	-
	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Bracket	Material		Engineering composite	Engineering composite	Engineering composite	Engineering composite	Engineering composite	Engineering composite
	Finish		-	-	-	-	-	-
Clamp band	Material		Steel	Steel	Steel	Steel	Steel	Steel
Average weight (g)			612 (/pair)	612 (/pair)	610 (/pair)	610 (/pair)	619 (/pair)	619 (/pair)
Note			-	-	-	-	For small hand.	For small hand.

Shift/Brake Lever (Hydraulic Disc Brake)

Series			TIAGRA	TIAGRA	TIAGRA	TIAGRA	SHIMANO	SHIMANO
Model no.			ST-4720-R	ST-4720-L	ST-4725-R	ST-4725-L	ST-RS685-R	ST-RS685-L
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds		-	2	-	2	-	2
	Rear speeds		10	-	10	-	11	-
	Max. multiple shifts (main lever/rear)		2	-	2	-	2	-
	Multi-bearing construction		-	-	-	-	-	-
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
	Inner cable	Polymer-coated cable	-	-	-	-	✓	✓
		OPTISLICK	✓	✓	✓	✓	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
		Steel	-	-	-	-	-	-
Brake lever	Brake hose (kit)		SM-BH90-J-SSR, SM-BH90-JK-SSR	SM-BH90-J-SSR, SM-BH90-JK-SSR	SM-BH90-J-SSR, SM-BH90-JK-SSR	SM-BH90-J-SSR, SM-BH90-JK-SSR	SM-BH59-J-SS, SM-BH59-JK-SS	SM-BH59-J-SS, SM-BH59-JK-SS
	Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	White	White
	Recommended brake caliper		BR-4770	BR-4770	BR-4770	BR-4770	BR-RS785	BR-RS785
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓	✓	✓	✓	✓
	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
	Funnel bleeding		✓	✓	✓	✓	✓	✓
	Free stroke adjust		-	-	-	-	✓	✓
	SERVO WAVE		-	-	-	-	✓	✓
	Material		Aluminum	Aluminum	Aluminum	Aluminum	Engineering composite	Engineering composite
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Bracket	Material		Engineering composite	Engineering composite	Engineering composite	Engineering composite	Aluminum	Aluminum
	Finish		-	-	-	-	Painted	Painted
Clamp band	Material		Steel	Steel	Steel	Steel	Steel	Steel
Average weight (g)			-	-	-	-	649 (/pair)	649 (/pair)
Note					For small hand.	For small hand.		

Shift/Brake Lever (Hydraulic Disc Brake)

Series			SHIMANO	SHIMANO
Model no.			ST-RS405-R	ST-RS405-L
Color	1		Dark gray	Dark gray
	2		-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds		-	2
	Rear speeds		10	10
	Max. multiple shifts (main lever/rear)		2	-
	Multi-bearing construction		-	-
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41
		Rear derailleur side	OT-SP41	OT-SP41
	Inner cable	Polymer-coated cable	-	-
		OPTISLICK	✓	✓
		SIL-TEC	-	-
		Stainless	-	-
		Steel	-	-
Brake lever	Brake hose (kit)		SM-BH59-J-SS	SM-BH59-J-SS
	Hose joint		Straight	Straight
	Brake hose color (kit)	1	Black	Black
		2	-	-
	Recommended brake caliper		BR-RS405	BR-RS405
	Oil		SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓
	Clamp band (mm)		23.8-24.2	23.8-24.2
	Funnel bleeding		✓	✓
	Free stroke adjust		-	-
	SERVO WAVE		-	-
	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Bracket	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Clamp band	Material		Steel	Steel
Average weight (g)			-	-
Note				

Shift/Brake Lever

Series			DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA
Model no.			ST-R9100-R	ST-R9100-L	ST-9001	ST-R8000-R	ST-R8000-L	ST-6800
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds		-	2	2	-	2	2
	Rear speeds		11	-	11	11	-	11
	Multi-bearing construction		R:4 L:4	R:4 L:4	R:4 L:4	*	*	- *
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-RS900	OT-RS900	OT-SP41 sealed	OT-RS900	OT-RS900	OT-SP41 sealed
	Inner cable	Polymer-coated cable	✓	✓	✓	✓	✓	✓
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-	-
Brake lever	Reach adjust		Screw	Screw	Screw	Screw	Screw	Screw
	Clamp band (mm)		23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
	SLR-EV		✓	✓	✓	✓	✓	✓
	NEW SUPER SLR		-	-	-	-	-	-
	SUPER SLR		-	-	-	-	-	-
	Material		Carbon	Carbon	Carbon	CFRP	CFRP	CFRP
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Bracket	Material		CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
	Finish		CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
Average weight (g)			365 (/pair)	365 (/pair)	365 (/pair)	220	218	425 (/pair)
Note						* Use bush	* Use bush	* Use bush

Shift/Brake Lever

Series			SHIMANO 105	SHIMANO 105	SHIMANO 105	TIAGRA	TIAGRA	TIAGRA
Model no.			ST-R7000-R	ST-R7000-L	ST-5800	ST-4700-R	ST-4700-L	ST-4703-L
Color	1		Silky black	Silky black	Black	Series color	Series color	Series color
	2		Spark silver	Spark silver	Silver	-	-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds		-	2	2	-	2	3
	Rear speeds		11	-	11	10	-	-
	Multi-bearing construction		0	0	0	0	0	0
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-RS900	OT-RS900	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-	-
Brake lever	Reach adjust		Screw	Screw	Screw	screw	Screw	Screw
	Clamp band (mm)		23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
	SLR-EV		✓	✓	✓	✓	✓	✓
	NEW SUPER SLR		-	-	-	-	-	-
	SUPER SLR		-	-	-	-	-	-
	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Bracket	Material		GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish		GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
Average weight (g)			251	249	486 (/pair)	-	-	-
Note			-	-				

Shift/Brake Lever

Series			SORA	SORA	SORA	CLARIS	CLARIS	CLARIS
Model no.			ST-R3000-R	ST-R3000-L	ST-R3030-L	ST-R2000-R	ST-R2000-L	ST-R2030-L
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds		-	2	3	-	2	3
	Rear speeds		9	-	-	8	-	-
	Multi-bearing construction		0	0	0	-	-	-
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	-	-	-
		Steel	-	-	-	✓	✓	✓
Brake lever	Reach adjust		Screw	Screw	Screw	Screw	Screw	Screw
	Clamp band (mm)		23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
	SLR-EV		-	-	-	-	-	-
	NEW SUPER SLR		✓	✓	✓	✓	✓	✓
	SUPER SLR		-	-	-	-	-	-
	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Bracket	Material		GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish		GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
Average weight (g)			-	-	-	-	-	-
Note								

Shift/Brake Lever

Series			CLARIS	CLARIS	CLARIS
Model no.			ST-RS200-R	ST-RS200-L	ST-RS203-L
Color	1		Series color	Series color	Series color
	2		-	-	-
Shifter type			RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Shift lever	Front speeds		-	2	3
	Rear speeds		8	-	-
	Multi-bearing construction		-	-	-
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed
	Inner cable	Polymer-coated cable	-	-	-
		OPTISLICK	✓	✓	✓
		SIL-TEC	-	-	-
		Stainless	-	-	-
		Steel	✓	✓	✓
Brake lever	Reach adjust		✓	✓	✓
	Clamp band (mm)		22.2	22.2	22.2
	SLR-EV		-	-	-
	NEW SUPER SLR		-	-	-
	SUPER SLR		✓	✓	✓
	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted
Bracket	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted
Average weight (g)			-	-	-
Note					

Shifter

Series			DURA-ACE	SHIMANO	SHIMANO	DURA-ACE	TIAGRA	TIAGRA
Model no.			SL-BSR1	SL-RS700	SL-RS700-I	SL-7900	SL-4700	SL-4703
Color	1		Series color	Black	Black	Series color	Series color	Series color
	2		-	-	-	-	-	-
Shifter type			Bar end shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Down tube shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds			2	2	2	2/3	2	3
Rear speeds			11	11	11	10	10	-
Compatible rear derailleur type			ROAD 11-speed	ROAD 11-speed	ROAD 11-speed	ROAD 10-speed	RD-4700	RD-4700
Mount type	Clamp band		-	✓	-	-	✓	✓
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	✓	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever cable adjust			-	✓	✓	-	✓	✓
Max. multiple shifts (main lever/rear)			-	4	4	-	4	-
Release function	MULTI RELEASE		-	*✓ (right)/- (left)	*✓ (right)/- (left)	-	-	-
	INSTANT RELEASE		-	✓	✓	-	✓ (rear)	-
	2-WAY RELEASE		-	✓	✓	-	✓	✓
OPTICAL GEAR DISPLAY	With		-	-	-	-	✓	✓
	With (removable)		-	-	-	-	-	-
	Without		✓	✓	✓	✓	-	-
Multi-bearing construction			-	R:2 L:2	R:2 L:2	-	R:2 L:2	2
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	✓	✓	✓	✓	-	-
		Stainless	✓	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-	-
Shift lever bracket	Material		-	Aluminum	Aluminum	-	Aluminum	Aluminum
	Finish		-	Painted	Painted	-	Painted	Painted
Clamp screw	Material		-			-		
	Finish		-			-		
Main lever body	Material		Aluminum	CFRP	CFRP	Aluminum	Aluminum	Aluminum
	Finish		Clear coated	Painted	Painted	Clear coated	Painted	Painted
Release lever body	Material		-	Steel+GFRP	Steel+GFRP	-	Steel+Resin	Steel+Resin
	Finish		-	-	-	-	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			153 (/pair)	210 (/pair)	210 (/pair)	63 (/pair)	-	-
Note				* Pull: single Push: double	* Pull: single Push: double			

Shifter

Series			TIAGRA	DURA-ACE	SORA	SORA	SORA	CLARIS
Model no.			SL-4603	SL-7700	SL-R3000-R	SL-R3000-L	SL-R3030-L	SL-R2000-R
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Shifter type			RAPIDFIRE PLUS	Down tube shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds			3	2/3	-	2	3	-
Rear speeds			-	9	9	-	-	8
Compatible rear derailleur type			-	ROAD 9-speed	RD-R3000	FD-R3000	FD-R3030	ROAD 8-speed
Mount type	Clamp band		✓	-	✓	✓	✓	✓
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever cable adjust			✓	-	✓	✓	✓	✓
Max. multiple shifts (main lever/rear)			-	-	3	-	-	3
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		✓	-	✓	✓	✓	✓
OPTICAL GEAR DISPLAY	With		✓	-	✓	✓	✓	✓
	With (removable)		-	-	-	-	-	-
	Without		-	✓	-	-	-	-
Multi-bearing construction			2	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	-	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	-
		Steel	-	-	-	-	-	✓
Shift lever bracket	Material		Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	-	Painted	Painted	Painted	Painted
Clamp screw	Material			-				
	Finish			-				
Main lever body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel+Resin
	Finish		Painted	Clear coated	Painted	Painted	Painted	-
Release lever body	Material		Steel+Resin	-	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
	Finish		-	-	-	-	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			-	-	-	-	-	-
Note								

Shifter

Series			CLARIS	CLARIS	SHIMANO
Model no.			SL-R2000-L	SL-R2030-L	SL-R400
Color	1		Series color	Series color	Series color
	2		-	-	-
Shifter type			RAPIDFIRE PLUS	RAPIDFIRE PLUS	Down tube shifter
Front speeds			2	3	2/3
Rear speeds			-	-	8
Compatible rear derailleur type			-	-	ROAD 8-speed
Mount type	Clamp band		✓	✓	-
	I-SPEC B		-	-	-
	I-SPEC II		-	-	-
Shift lever position adjust			-	-	-
Shift lever cable adjust			✓	✓	-
Max. multiple shifts (main lever/rear)			-	-	-
Release function	MULTI RELEASE		-	-	-
	INSTANT RELEASE		-	-	-
	2-WAY RELEASE		✓	✓	-
OPTICAL GEAR DISPLAY	With		✓	✓	-
	With (removable)		-	-	-
	Without		-	-	✓
Multi-bearing construction			-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-
		OPTISLICK	✓	✓	-
		SIL-TEC	-	-	-
		Stainless	-	-	✓
		Steel	✓	✓	-
Shift lever bracket	Material		Aluminum	Aluminum	-
	Finish		Painted	Painted	-
Clamp screw	Material				-
	Finish				-
Main lever body	Material		Steel+Resin	Steel+Resin	Aluminum
	Finish		-	-	Painted
Release lever body	Material		Steel+Resin	Steel+Resin	-
	Finish		-	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41
Average weight (g)			-	-	-
Note					

Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO
Model no.		BL-RS600
Brake type		Hydraulic disc brake
Lever size (finger)		3
Color	1	Black
	2	-
	3	-
Brake hose (kit)		SM-BH59-JK-SS
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
J-Kit spec (for OEM)		✓
SERVO WAVE		-
Reach adjust	Toolless	-
	Tool	✓
Free stroke adjust		-
Compatible shifter mount	Clamp band	✓
	I-SPEC B	-
	I-SPEC II	✓
Clamp band	Open clamp	✓
	Diameter (mm)	22.2
Recommended brake caliper		BR-RS405
Oil		SHIMANO mineral
Funnel bleeding		✓
Clamp screw	Material	Stainless steel
	Finish	-
Bracket	Material	-
	Finish	-
Brake lever	Material	Aluminum
	Finish	Anodized
Master cylinder	Material	Aluminum
	Finish	Painted
Average weight (g)		
Note		

Brake Lever

Series		DURA-ACE	TIAGRA	SORA	CLARIS	SHIMANO	SHIMANO
Model no.		BL-TT79	BL-4700	BL-R3000	BL-R2000	BL-R780	BL-R550
Color	1	Black	Series color	Series color	Series color	Silver	Silver
	2	-	-	-	-	Black	Black
	3	-	-	-	-	-	-
Compatible brake type	V-BRAKE	-	✓	✓	✓	✓	-
	Mechanical disc brake (Road)	✓	✓	✓	✓	✓	✓
	Caliper (NEW SUPER SLR)	✓	✓	✓	✓	✓	-
	Caliper (SUPER SLR)	-	-	-	-	-	✓
	Cantilever brake	✓	✓	✓	✓	✓	✓
	Roller brake	-	-	-	-	-	-
Recommended POWER MODULATOR	V-BRAKE	-	-	-	-	-	-
	Mechanical disc brake (MTB)	-	-	-	-	-	-
Clamp band	Open clamp band	-	-	-	-	-	-
	I-SPEC	-	-	-	-	-	-
	Diameter (mm)	*	22.2	22.2	22.2	22.2	22.2
Internal bumper stop		-	✓	✓	✓	✓	-
Lever size (finger)		-	2.5	2.5	2.5	2.5	2.5
Brake cable type		-	T-type	T-type	T-type	T-type	T-type
Power adjuster		-	-	-	-	-	-
SERVO WAVE		-	-	-	-	-	-
Reach adjust		✓	✓	✓	✓	✓	✓
Cable adjust		-	✓	✓	✓	✓	✓
Cable adjust type		-	Two hand	Two hand	Two hand	Two hand	Two hand
Brake lever	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	anodized	Anodized	Anodized
Brake bracket	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	painted	Painted	Painted
Average weight (g)		89 (/pair)	-	-	-	170 (/pair)	-
Note		* Fixation structure is expanding plug clamp, handle bar inside diameter: 19.0 - 22.5 dim, handle bar outside diameter: 22.2 - 24.0 dim.					

Brake Lever

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

Brake (Hydraulic Disc Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		BR-R9270	BR-R9170-F	BR-R9170-R	BR-R8170	BR-R8070-F	BR-R8070-R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	✓	✓	✓	✓	✓
Pad	Standard 1	K05Ti-RX Resin (w/o fin)	K05Ti-RX Resin (w/o fin)	K05Ti-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)
	Standard 2	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)
	Option 1	K04Ti-MX Metal (w/o fin)	K04Ti-MX Metal (w/o fin)	K04Ti-MX Metal (w/o fin)	L04C-MF Metal (w/ fin)	K04S-MX Metal (w/o fin)	K04S-MX Metal (w/o fin)
	Option 2	L04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)	-	L04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)
Fixing screw spec for rear mount	10 mm mount	✓	-	-	✓	-	✓
	15 mm mount	✓	-	✓	✓	-	✓
	20 mm mount	✓	-	✓	✓	-	✓
	25 mm mount	✓	-	✓	✓	-	✓
	30 mm mount	✓	-	✓	✓	-	✓
	35 mm mount	✓	-	✓	✓	-	✓
	15.2 mm	-	-	-	-	-	-
	18.7 mm	-	-	-	-	-	-
Recommended brake lever		ST-R9270 ST-R9180	ST-R9180 ST-R9170 ST-R9120	ST-R9180 ST-R9170 ST-R9120	ST-R8170	ST-R8070 ST-R8020	ST-R8070 ST-R8020
Recommended disc brake rotor		RT-MT900 RT-CL900	SM-RT900 RT-MT900 RT-CL900	SM-RT900 RT-MT900 RT-CL900	RT-MT800 RT-CL800	SM-RT800	SM-RT800
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓	✓
Mount type		Flat mount	Flat mount	Flat mount	Flat mount	Flat mount	Flat mount
Piston		2	2	2	2	2	2
Piston material		Resin	Ceramic	Ceramic	Resin	Ceramic	Ceramic
Caliper	MONO-BODY	✓	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painting	Anodized	Anodized
Caliper fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	4 mm	4 mm	4 mm	4 mm	4 mm	4 mm
	Anti loosen method	Screw fix pin+Snap ring	Screw fix pin+Snap ring	Screw fix pin	Screw fix pin+Snap ring	Screw fix pin+Snap ring	Screw fix pin
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		97	131	111	123	141	124
Note							

Brake (Hydraulic Disc Brake)

Series		SHIMANO 105	SHIMANO 105	SHIMANO 105	TIAGRA	TIAGRA	SHIMANO
Model no.		BR-R7170	BR-R7070-F	BR-R7070-R	BR-4770-F	BR-4770-R	BR-RS785
Color	1	Black	Silky black	Silky black	Series color	Series color	Series color (ULTEGRA)
	2	-	Spark silver	Spark silver	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-J-SSR SM-BH90-JK-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	White
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	✓	✓	-	-	✓
Pad	Standard 1	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)	J05A-RF Resin (w/ fin)
	Standard 2	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)	K04S-MX Metal (w/o fin)	K04S-MX Metal (w/o fin)	J04C-MF Metal (w/ fin)
	Option 1	L04C-MF Metal (w/ fin)	K04S-MX Metal (w/o fin)	K04S-MX Metal (w/o fin)	L03A-RF Resin (w/ fin)	L03A-RF Resin (w/ fin)	G03A-RX Resin (w/o fin)
	Option 2	-	L04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)	-	-	-
Fixing screw spec for rear mount	10 mm mount	✓	-	✓	-	✓	-
	15 mm mount	✓	-	✓	-	✓	-
	20 mm mount	✓	-	✓	-	✓	-
	25 mm mount	✓	-	✓	-	✓	-
	30 mm mount	✓	-	✓	-	✓	-
	35 mm mount	✓	-	✓	-	✓	-
	15.2 mm	-	-	-	-	-	-
	18.7 mm	-	-	-	-	-	✓
Recommended brake lever		ST-R7170	ST-R7020 ST-R7025	ST-R7020 ST-R7025	ST-4720 ST-4725	ST-4720 ST-4725	ST-R8070
Recommended disc brake rotor		SM-RT70, SM-RT64	SM-RT70	SM-RT70	SM-RT64	SM-RT64	SM-RT99
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓	✓
Mount type		Flat mount	Flat mount	Flat mount	Flat mount	Flat mount	Post type
Piston		2	2	2	2	2	2
Piston material		Resin	Ceramic	Ceramic	Resin	Resin	Ceramic
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	4 mm	4 mm	4 mm	4 mm	4 mm	5 mm
	Anti loosen method	Screw fix pin	Screw fix pin+Snap ring	Screw fix pin	Screw fix pin+Snap ring	Screw fix pin	Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		123	141	124	-	-	271 (/pair)
Note							

Brake (Hydraulic Disc Brake)

Series		SHIMANO	SHIMANO
Model no.		BR-RS405-F	BR-RS405-R
Color	1	Dark gray	Dark gray
	2	-	-
	3	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS
Hose joint		Straight	Straight
Brake hose color (kit)	1	Black	Black
	2	-	-
J-Kit spec (for OEM)		✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	✓
Pad	Standard 1	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)
	Standard 2	-	-
	Option 1	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)
	Option 2	-	-
Fixing screw spec for rear mount	10 mm mount	-	✓
	15 mm mount	-	✓
	20 mm mount	-	✓
	25 mm mount	-	✓
	30 mm mount	-	✓
	35 mm mount	-	✓
	15.2 mm	-	-
	18.7 mm	-	-
Recommended brake lever		ST-RS405 BL-RS600	ST-RS405 BL-RS600
Recommended disc brake rotor		SM-RT70	SM-RT70
Oil		SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓
Mount type		Flat mount	Flat mount
Piston		2	2
Piston material		Resin	Resin
Caliper	MONO-BODY	-	-
	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Caliper fixing screw	Material	Steel	Steel
	Tool size	4 mm	4 mm
	Anti loosen method	Screw fix pin+Snap ring	Screw fix pin
Pad mount		Pad axle	Pad axle
Average weight (g)		-	-
Note			

Brake (Mechanical Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		BR-R317	BR-RS305-F	BR-RS305-R
Color	1	Black	Black	Black
	2	-	-	-
Brake type		Mechanical disc brake	Mechanical disc brake	Mechanical disc brake
Compatibility		NEW SUPER SLR	NEW SUPER SLR	NEW SUPER SLR
ICE TECHNOLOGIES pad compatible caliper		-	✓	✓
Pad	Standard 1	G05A-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)
	Standard 2	-	-	-
	Option 1	-	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)
	Option 2	-	-	-
Fixing screw spec for rear mount	10 mm mount	-	-	✓
	15 mm mount	-	-	✓
	20 mm mount	-	-	✓
	25 mm mount	-	-	✓
	30 mm mount	-	-	✓
	35 mm mount	-	-	✓
Recommended brake lever		BL-R2000	-	-
Recommended disc brake rotor		SM-RT54 (160 mm), SM-RT70 (140 mm)	SM-RT54/RT56 (160 mm), SM-RT70 (140 mm/160 mm)	SM-RT54/RT56 (160 mm), SM-RT70 (140 mm/160 mm)
Mount type		Post type	Flat mount	Flat mount
Piston		1	1	1
Piston material		-	-	-
Caliper	MONO-BODY	-	-	-
	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Steel	Steel
	Tool size	5 mm	4 mm	4 mm
	Anti loosen method	Snap ring	Screw fix pin+Snap ring	Screw fix pin
Pad mount		Pad axle	Pad axle	Pad axle
Average weight (g)		-	-	-
Note		SHIMANO logo	SHIMANO logo	SHIMANO logo

Brake (Caliper Brake)

Series			DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.			BR-R9200	BR-R9210-F	BR-R9210-RS	BR-R9100	BR-R9110-F	BR-R9110-R
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Type			SLR-EV Dual Pivot	Direct mount type	Direct mount type	SLR-EV Dual Pivot	Direct mount type	Direct mount type
Reach (mm)			51	51	51	51	51	51
Brake shoe	Standard		R55C4	R55C4	R55C4	R55C4	R55C4	R55C4
	Optional choice		R55C4 Carbon, R55C4-A Carbon, R55CT4	R55C4 Carbon, R55C4-A Carbon, R55CT4	R55C4 Carbon, R55C4-A Carbon, R55CT4	R55C4 Carbon, R55C4-A Carbon, R55CT4	R55C4 Carbon, R55C4-A Carbon, R55CT4	R55C4 Carbon, R55C4-A Carbon, R55CT4
Compatibility			SLR-EV	SLR-EV	SLR-EV	SLR-EV	SLR-EV	SLR-EV
Assembly pivot nut (mm)	Front (mm)	10.5	✓	-	-	✓	-	-
		12.5	✓	-	-	✓	-	-
		18.0	✓	-	-	✓	-	-
		27.0	✓	-	-	✓	-	-
		32.0	✓	-	-	✓	-	-
	Rear (mm)	10.5	✓	-	-	✓	-	-
Cartridge shoe holder			✓	✓	✓	✓	✓	✓
Tire guide bumpers			✓	✓	✓	✓	✓	✓
Quick release lever			✓	✓	✓	✓	✓	-
Shoe angle adjusting			✓	✓	✓	✓	✓	✓
Spring tension adjusting			-	-	-	-	-	✓
Maximum tire size			28C	28C	28C	28C	28C	28C
Rim width (mm)			20.8-28	20.8-28	20.8-28	20.8-28	20.8-28	20.8-28
Cartridge shoe holder	Material		Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Material		Aluminum	-	-	Aluminum	-	-
	Finish		Anodized	-	-	Anodized	-	-
Quick release lever	Material		Resin	Resin	Resin	Resin	Resin	-
	Finish		Painted	Painted	Painted	Painted	Painted	-
Titanium cable fixing screw			✓	✓	✓	✓	✓	✓
Titanium pivot bolt			✓	✓ (fixing screw)	✓ (fixing screw)	✓	✓ (fixing screw)	✓ (fixing screw)
Average weight (g)			327 (/pair)	156 (/pc)	154 (/pc)	327 (/pair)	150 (/pc)	139 (/pc)
Note								Need inline cable adjuster (SM-CB90) for cable adjusting and quick release feature.

Brake (Caliper Brake)

Series			DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	SHIMANO	ULTEGRA
Model no.			BR-R9110-RS	BR-R8100	BR-R8110-F	BR-R8110-RS	BR-RS811-R	BR-R8000
Color	1		Series color	Series color	Series color	Series color	Black	Series color
	2		-	-	-	-	-	-
Type			Direct mount type	SLR-EV Dual Pivot	Direct mount type	Direct mount type	Direct mount type	SLR-EV Dual Pivot
Reach (mm)			51	51	51	51	51	51
Brake shoe	Standard		R55C4	R55C4	R55C4	R55C4	R55C4	R55C4
	Optional choice		R55C4 Carbon, R55C4-A Carbon, R55CT4	R55C4 Carbon, R55C4-A Carbon, R55CT4	R55C4 Carbon, R55C4-A Carbon, R55CT4	R55C4 Carbon, R55C4-A Carbon, R55CT4	R55C4 Carbon, R55C4-A Carbon, R55CT4	R55C4 carbon, R55C4-A carbon, R55CT4
Compatibility			SLR-EV	SLR-EV	SLR-EV	SLR-EV	SLR-EV	SLR-EV
Assembly pivot nut (mm)	Front (mm)	10.5	-	✓	-	-	-	✓
		12.5	-	✓	-	-	-	✓
		18.0	-	✓	-	-	-	✓
		27.0	-	✓	-	-	-	✓
		32.0	-	✓	-	-	-	✓
	Rear (mm)	10.5	-	✓	-	-	-	✓
Cartridge shoe holder			✓	✓	✓	✓	✓	✓
Tire guide bumpers			✓	✓	✓	✓	✓	✓
Quick release lever			✓	✓	✓	✓	-	✓
Shoe angle adjusting			✓	✓	✓	✓	✓	✓
Spring tension adjusting			-	-	-	-	✓	-
Maximum tire size			28C	28C	28C	28C	28C	28C
Rim width (mm)			20.8-28	20.8-28	20.8-28	20.8-28	20.8-28	20.8-28
Cartridge shoe holder	Material		Magnesium	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Painted	Anodized
Y-arm	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Painted	Anodized
Gate	Material		-	Aluminum	-	-	-	Aluminum
	Finish		-	Anodized	-	-	-	Anodized
Quick release lever	Material		Resin	Resin	Resin	Resin	-	Resin
	Finish		Painted	Painted	Painted	Painted	-	-
Titanium cable fixing screw			✓	-	-	-	-	-
Titanium pivot bolt			✓ (fixing screw)	-	-	-	-	-
Average weight (g)			148 (/pc)	182 (Front) 180 (Rear)	180 (/pc)	178 (/pc)	-	182 (Front) 178 (Rear)
Note							Need inline cable adjuster (SM-CB90) for cable adjusting and quick release feature.	

Brake (Caliper Brake)

Series			ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.			BR-R8010-F	BR-R8010-R	BR-R8010-RS	BR-6800	BR-6810-F	BR-6810-RS
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Type			Direct mount type	Direct mount type	Direct mount type	SLR-EV Dual Pivot	Direct mount type	Direct mount type
Reach (mm)			51	51	51	51	51	51
Brake shoe	Standard		R55C4	R55C4	R55C4	R55C4	R55C4	R55C4
	Optional choice		R55C4 carbon, R55C4-A carbon, R55CT4	R55C4 carbon, R55C4-A carbon, R55CT4	R55C4 carbon, R55C4-A carbon, R55CT4	R55C4 carbon, R55C4-A carbon	R55C4 carbon, R55C4-A carbon	R55C4 carbon, R55C4-A carbon
Compatibility			SLR-EV	SLR-EV	SLR-EV	SLR-EV	SLR-EV	SLR-EV
Assembly pivot nut (mm)	Front (mm)	10.5	-	-	-	✓	-	-
		12.5	-	-	-	✓	-	-
		18.0	-	-	-	✓	-	-
		27.0	-	-	-	✓	-	-
		32.0	-	-	-	✓	-	-
	Rear (mm)	10.5	-	-	-	✓	-	-
Cartridge shoe holder			✓	✓	✓	✓	✓	✓
Tire guide bumpers			✓	✓	✓	✓	✓	✓
Quick release lever			✓	-	✓	✓	✓	✓
Shoe angle adjusting			✓	✓	✓	✓	✓	✓
Spring tension adjusting			-	✓	-	✓	-	-
Maximum tire size			28C	28C	28C	25C	28C	28C
Rim width (mm)			20.8-28	20.8-28	20.8-28	19-28	19-28	19-28
Cartridge shoe holder	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Material		-	-	-	Aluminum	-	-
	Finish		-	-	-	Anodized	-	-
Quick release lever	Material		Resin	-	Resin	Aluminum	Aluminum	Aluminum
	Finish		-	-	-	Painted	Painted	Painted
Titanium cable fixing screw			-	-	-	-	-	-
Titanium pivot bolt			-	-	-	-	-	-
Average weight (g)			174 (/pc)	160 (/pc)	172 (/pc)	335 (/pair)	173 (/pc)	168 (/pc)
Note				Need inline cable adjuster (SM-CB90) for cable adjusting and quick release feature.		* Rim width: 19-28 mm (R55C4-A carbon)	* Rim width: 19-28 mm (R55C4-A carbon)	* Rim width: 19-28 mm (R55C4-A carbon)

Brake (Caliper Brake)

Series			SHIMANO 105	SHIMANO 105	SHIMANO 105	TIAGRA	SORA	CLARIS
Model no.			BR-R7000	BR-R7010-F	BR-R7010-RS	BR-4700	BR-R3000	BR-R2000
Color	1		Silky black	Silky black	Silky black	Series color	Series color	Series color
	2		Spark silver	-	-	-	-	-
Type			SLR-EV Dual Pivot	Direct mount type	Direct mount type	NEW SUPER SLR Dual pivot	NEW SUPER SLR Dual pivot	NEW SUPER SLR Dual pivot
Reach (mm)			51	51	51	51	51mm	51mm
Brake shoe	Standard		R55C4	R55C4	R55C4	R50T5	R50T5	R50T5
	Optional choice		R55C4 carbon, R55C4-A carbon, R55CT4	R55C4 carbon, R55C4-A carbon, R55CT4	R55C4 carbon, R55C4-A carbon, R55CT4	R50T4	R50T4	R50T4
Compatibility			SLR-EV	SLR-EV	SLR-EV	NEW SUPER SLR	NEW SUPER SLR	NEW SUPER SLR
Assembly pivot nut (mm)	Front (mm)	10.5	✓	-	-	✓	✓	✓
		12.5	✓	-	-	✓	✓	✓
		18.0	✓	-	-	✓	✓	✓
		27.0	✓	-	-	✓	✓	✓
		32.0	✓	-	-	✓	✓	✓
	Rear (mm)	10.5	✓	-	-	✓	✓	✓
Cartridge shoe holder			✓	✓	✓	-	-	-
Tire guide bumpers			✓	✓	✓	-	-	-
Quick release lever			✓	✓	✓	✓	✓	✓
Shoe angle adjusting			✓	✓	✓	✓	✓	✓
Spring tension adjusting			-	-	-	-	-	-
Maximum tire size			28C	28C	28C	28C	28 mm	28 mm
Rim width (mm)			20.8-28	20.8-28	20.8-28	19-26	19-28	19-26
Cartridge shoe holder	Material		Aluminum	Aluminum	Aluminum	-	-	-
	Finish		Painted	Painted	Painted	-	-	-
C-arm	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Painted	Painted
Y-arm	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Painted	Painted
Gate	Material		Aluminum	-	-	Aluminum	Aluminum	Aluminum
	Finish		Anodized	-	-	Anodized	Anodized	Anodized
Quick release lever	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	Painted	-	-
Titanium cable fixing screw			-	-	-	-	-	-
Titanium pivot bolt			-	-	-	-	-	-
Average weight (g)			379 (/pair)	174 (/pc)	174 (/pc)	-	-	-
Note			-	-	-			

Brake (Caliper Brake)

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

Brake (V-BRAKE)

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

Brake (Cantilever Brake)

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

Brake Cable

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

Rear Derailleur

Series			DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.			RD-R9100-SS	RD-9000-SS	RD-R8000-SS	RD-R8000-GS	RD-6800-SS	RD-6800-GS
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			11	11	11	11	11	11
Compatible chain			LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
RD construction	SHIMANO SHADOW RD		✓	-	✓	✓	-	-
	SHIMANO SHADOW RD+		-	-	-	-	-	-
	Double servo		-	✓	-	-	✓	✓
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	-	-	-	-	-	-
		Direct mount	-	-	-	-	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
		Direct mount	✓	-	✓	✓	-	-
	UDH standard		-	-	-	-	-	-
	Riveted adapter	ROAD type	-	-	-	-	-	-
		BMX-track type	-	-	-	-	-	-
Cable adjuster			✓	✓	✓	✓	✓	✓
Max. front difference			16T	16T	16T	16T	16T	16T
Total capacity			35T	33T	35T	39T	33T	37T
Low sprocket	Max.		30T	28T	30T	34T	28T	32T
	Min.		25T	23T	25T	28T	23T	28T
Top sprocket	Max.		14T	14T	14T	12T	14T	12T
	Min.		11T	11T	11T	11T	11T	11T
Fluoric coated link bushings			4	4	4	4	4	4
Pulley	Guide pulley bearing		✓	✓	✓	✓	✓	✓
	Tension pulley bearing		✓	✓	✓	✓	✓	✓
	Teeth		11T	11T	11T	11T	11T	11T
	Screws material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓	✓	✓	✓	✓
Bracket	Material		Aluminum	-	-	-	-	-
	Finish		Anodized	-	-	-	-	-
B-axle	Hollow axle		✓	✓	✓	✓	✓	✓
	Material		Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Anodized	-	-	-	-	-
B-axle 2	Hollow axle		-	-	-	-	-	-
	Material		Aluminum	-	-	-	-	-
	Finish		Anodized	-	-	-	-	-
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Painted	Painted	Painted	Painted
P-axle	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Plate body	Material		CFRP	CFRP	GFRP	GFRP	CFRP	CFRP
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	GFRP	GFRP	Aluminum	Aluminum
	Finish		Anodized	Anodized	-	-	Painted	Painted
Outer plate	Material		Carbon	Carbon	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Clear coated	Clear coated	Painted	Painted	Painted	Painted
Inner plate	Material		CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Clear coated	Clear coated	Painted	Painted	Painted	Painted
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Black coated	-	Black coated	Black coated	-	-
Stroke adjusting screw	Material		Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish		Anodized	Anodized	Plated	Plated	Plated	Plated
Average weight (g)			158	158	200	210	195	207
Note			* w/o Bracket spec available		* w/o Bracket spec available	* w/o Bracket spec available		

Rear Derailleur

Series			ULTEGRA RX	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105
Model no.			RD-RX800-GS	RD-R7100	RD-R7000-SS	RD-R7000-GS	RD-5701-SS	RD-5701-GS
Color	1		Series color	Series color	Silky black	Silky black	Black	Black
	2		-	-	Spark silver	Spark silver	Silver	Silver
Rear speeds			11	12	11	11	10	10
Compatible chain			LINKGLIDE, HG 11-speed	HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG 10-speed	HG 10-speed
RD construction	SHIMANO SHADOW RD		-	✓	✓	✓	-	-
	SHIMANO SHADOW RD+		✓	-	-	-	-	-
	Double servo		-	-	-	-	✓	✓
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	-	-	-	-	-	-
		Direct mount	-	-	-	-	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
		Direct mount	✓	✓	✓	✓	-	-
	UDH standard		-	-	-	-	-	-
	Riveted adapter	ROAD type	-	-	-	-	-	-
		BMX-track type	-	-	-	-	-	-
Cable adjuster			✓	✓	✓	✓	✓	✓
Max. front difference			16T	16T	16T	16T	16T	16T (front double), 22T (front triple)
Total capacity			39T	41T	35T	39T	34T	40T
Low sprocket	Max.		34T	36T	30T	34T	30T	30T (front triple), 32T (front double)
	Min.		28T	34T	25T	28T	25T	27T (front double), 25T (front triple)
Top sprocket	Max.		11T	11T	14T	12T	14T	12T (front double), 14T (front triple)
	Min.		11T	11T	11T	11T	11T	11T
Fluoric coated link bushings			4	2	2	2	2	2
Pulley	Guide pulley bearing		✓	✓	-	-	-	-
	Tension pulley bearing		✓	-	-	-	-	-
	Teeth		11T	11T	11T	11T	11T	11T
	Screws material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓	✓	✓	✓	✓
Bracket	Material		Aluminum	-	-	-	-	-
	Finish		Anodized	-	-	-	-	-
B-axle	Hollow axle		✓	-	-	-	-	-
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
	Finish		-	-	-	-	Plated	Plated
B-axle 2	Hollow axle		-	-	-	-	-	-
	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	Plated	Plated	Plated	Plated	Plated
Plate body	Material		Aluminum	GFRP	GFRP	GFRP	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	GFRP	GFRP	GFRP	Steel	Steel
	Finish		Painted	-	-	-	Plated	Plated
Outer plate	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing screw	Material		Stainless steel	Steel	Steel	Steel	Steel	Steel
	Finish		Passivation	Plated	Plated	Plated	Plated	Plated
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)			248	249	225	232	230	243
Note			* w/o bracket spec available		* w/o Bracket spec available	* w/o Bracket spec available		

Rear Derailleur

Series			TIAGRA	TIAGRA	SORA	SORA	SHIMANO	CLARIS
Model no.			RD-4700-SS	RD-4700-GS	RD-R3000-SS	RD-R3000-GS	RD-R350-GS	RD-R2000-SS
Color	1		Series color	Series color	Series color	Series color	Black	Series color
	2		-	-	-	-	-	-
Rear speeds			10	10	9	9	9	8
Compatible chain			HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 8/7/6-speed
RD construction	SHIMANO SHADOW RD		-	-	-	-	-	-
	SHIMANO SHADOW RD+		-	-	-	-	-	-
	Double servo		✓	✓	✓	✓	✓	✓
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	-	-	-	-	-	-
		Direct mount	-	-	-	-	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
		Direct mount	-	-	-	-	-	-
	UDH standard		-	-	-	-	-	-
	Riveted adapter	ROAD type	-	-	-	-	-	-
		BMX-track type	-	-	-	-	-	-
Cable adjuster			✓	✓	✓	✓	✓	✓
Max. front difference			16T	16T (front double), 20T (front triple)	16T	20T	20T	16T
Total capacity			33T	41T	37T	43T	41T	37T
Low sprocket	Max.		28T	32T (front triple), 34T (front double)	32T	34T	32T	32T
	Min.		25T	28T (front double), 25T (front triple)	25T	28T	25T	25T
Top sprocket	Max.		14T	12T	14T	14T	14T	13T
	Min.		11T	11T	11T	11T	11T	11T
Fluoric coated link bushings			2	2	2	2	2	-
Pulley	Guide pulley bearing		-	-	-	-	-	-
	Tension pulley bearing		-	-	-	-	-	-
	Teeth		11T	11T	11T	11T	11T	11T
	Screws material		Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
	Sunken type pulley screw		✓	✓	-	-	✓	✓
Bracket	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
B-axle	Hollow axle		-	-	-	-	-	-
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	Plated
B-axle 2	Hollow axle		-	-	-	-	-	-
	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Plate body	Material		Aluminum	Aluminum	Resin	Resin	Resin	Resin
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Painted	Painted	Painted	Painted
Outer plate	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Painted	Painted	Painted	Painted
Inner plate	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Painted	Painted	Painted	Painted
Cable fixing screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated
Average weight (g)			-	-	-	-	-	-
Note							SHIMANO logo	

Rear Derailleur

Series			CLARIS
Model no.			RD-R2000-GS
Color	1		Series color
	2		-
Rear speeds			8
Compatible chain			HG 8/7/6-speed
RD construction	SHIMANO SHADOW RD		-
	SHIMANO SHADOW RD+		-
	Double servo		✓
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	-
		Direct mount	-
	SHIMANO ROAD type	Direct attachment (conventional)	✓
		Direct mount	-
	UDH standard		-
	Riveted adapter	ROAD type	-
		BMX-track type	-
Cable adjuster			✓
Max. front difference			20T
Total capacity			43T
Low sprocket	Max.		34T
	Min.		28T
Top sprocket	Max.		13T
	Min.		11T
Fluoric coated link bushings			-
Pulley	Guide pulley bearing		-
	Tension pulley bearing		-
	Teeth		11T
	Screws material		Steel
	Sunken type pulley screw		✓
Bracket	Material		-
	Finish		-
B-axle	Hollow axle		-
	Material		Stainless steel
	Finish		Plated
B-axle 2	Hollow axle		-
	Material		-
	Finish		-
Bracket body	Material		Aluminum
	Finish		Painted
P-axle	Material		Steel
	Finish		Plated
Plate body	Material		Resin
	Finish		Painted
Outer link	Material		Steel
	Finish		Painted
Inner link	Material		Steel
	Finish		Painted
Outer plate	Material		Steel
	Finish		Painted
Inner plate	Material		Steel
	Finish		Painted
Cable fixing screw	Material		Steel
	Finish		Nickel plated
Stroke adjusting screw	Material		Steel
	Finish		Zinc Plated
Average weight (g)			-
Note			

Front Derailleur

Series			DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA
Model no.			FD-R9100-F	FD-R9100-B	FD-9000-F	FD-9000-B	FD-R8000-F	FD-R8000-B
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Front speeds			2	2	2	2	2	2
Rear speeds			11	11	11	11	11	11
Compatible chain			LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Action	TOP SWING		-	-	-	-	-	-
	Down swing		✓	✓	✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)
		31.8	-	✓	-	✓	-	✓
		34.9	-	✓	-	✓	-	✓
	Brazed-on		✓	-	✓	-	✓	-
Cable adjust			✓	✓	-	-	✓	✓
Cable route type	Top-pull exclusive		-	-	-	-	-	-
Chain line (mm)			43.5	43.5	43.5	43.5	43.5	43.5
Chainstay angle (deg.)			61-66	61-66	61-66	61-66	61-66	61-66
Top gear teeth			50-55T	50-55T	50-55T	50-55T	46-53T	46-53T
Total capacity			16T	16T	16T	16T	16T	16T
Applicable top-mid tooth difference			-	-	-	-	-	-
Angled clamp band design			-	-	-	-	-	-
Multi-bearing construction			2	2	-	-	-	-
Link bushings			8	8	7	7	8	8
Front clamp band	Material		-	Aluminum	-	Aluminum	-	Aluminum
	Finish		-	Painted	-	Anodized	-	Painted
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Anodized	Anodized	Painted	Painted
Clamp screw	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		CFRF	CFRF	Aluminum	Aluminum	GFRP	GFRP
	Finish		Plated/Painted	Plated/Painted	Anodized	Anodized	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Painted	Painted
Chain guide	Material		Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish		Nickel plated	Nickel plated	Nickel plated	Nickel plated	Chrome plated	Chrome plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Steel	Steel	Aluminum	Aluminum	Stainless steel	Stainless steel
	Finish		Black	Black	Anodized	Anodized	Black	Black
Average weight (g) (band type: L size, direct type w/ screw)			70	85	66	78	92	106
Note								

Front Derailleur

Series			ULTEGRA	ULTEGRA	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105
Model no.			FD-6800-F	FD-6800-B	FD-R7100-F	FD-R7100-B	FD-R7000-F	FD-R7000-B
Color	1		Series color	Series color	Series color	Series color	Silky black	Silky black
	2		-	-	-	-	Spark silver	Spark silver
Front speeds			2	2	2	2	2	2
Rear speeds			11	11	12	12	11	11
Compatible chain			LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Action	TOP SWING		-	-	-	-	-	-
	Down swing		✓	✓	✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)
		31.8	-	✓	-	✓	-	✓
		34.9	-	✓	-	✓	-	✓
	Brazed-on		✓	-	✓	-	✓	-
Cable adjust			-	-	✓	✓	✓	✓
Cable route type	Top-pull exclusive		-	-	-	-	-	-
Chain line (mm)			43.5	43.5	44.5	44.5	43.5	43.5
Chainstay angle (deg.)			61-66	61-66	61-66	61-66	61-66	61-66
Top gear teeth			46-53T	46-53T	50-52T	50-52T	46-53T	46-53T
Total capacity			16T	16T	16T	16T	16T	16T
Applicable top-mid tooth difference			-	-	-	-	-	-
Angled clamp band design			-	-	-	✓	-	✓
Multi-bearing construction			-	-	-	-	-	-
Link bushings			7	7	7	7	7	7
Front clamp band	Material		-	Aluminum	-	Aluminum	-	Aluminum
	Finish		-	Painted	-	Painted	-	Painted
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Aluminum	Aluminum	GFRP	GFRP	GFRP	GFRP
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Plated	Plated	Plated	Plated
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Chrome plated	Chrome plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	Black	Black	Black	Black
Average weight (g) (band type: L size, direct type w/ screw)			89	104	96	111	96	111
Note					-	-	-	-

Front Derailleur

Series			SHIMANO 105	SHIMANO 105	TIAGRA	TIAGRA	TIAGRA	TIAGRA
Model no.			FD-5700-F	FD-5703-F	FD-4700-F	FD-4700-B	FD-4703-F	FD-4703-B
Color	1		Black	Black	Series color	Series color	Series color	Series color
	2		Silver	Silver	-	-	-	-
Front speeds			2	3	2	2	3	3
Rear speeds			10	10	10	10	10	10
Compatible chain			HG 10-speed	HG 10-speed (for 3x10s)	HG-X 10-speed, CN-HG500	HG-X 10-speed, CN-HG500	HG-X 10-speed, CN-HG500	HG-X 10-speed, CN-HG500
Action	TOP SWING		-	-	-	-	-	-
	Down swing		✓	✓	✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	-	-	-	✓ *	-	✓ *
		31.8	-	-	-	✓	-	✓
		34.9	-	-	-	✓	-	✓
	Brazed-on		✓	✓	✓	-	✓	-
Cable adjust			-	-	-	-	-	-
Cable route type	Top-pull exclusive		-	-	-	-	-	-
Chain line (mm)			43.5	45	43.5	43.5	45	45
Chainstay angle (deg.)			61-66	63-66	61-66	61-66	63-66	63-66
Top gear teeth			50-56T	50T	46-52T	46-52T	50T	50T
Total capacity			16T	20T	16T	16T	20T	20T
Applicable top-mid tooth difference			-	11T	-	-	11T	11T
Angled clamp band design			-	-	-	-	-	-
Multi-bearing construction			-	-	-	-	-	-
Link bushings			-	-	-	-	-	-
Front clamp band	Material		-	-	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		-	-	Painted	Painted	Painted	Painted
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Average weight (g) (band type: L size, direct type w/ screw)			89	114	-	-	-	-
Note						* 28.6 mm Clamp band: 31.8 mm w/ Adapter		* 28.6 mm Clamp band: 31.8 mm w/ Adapter

Front Derailleur

Series			SHIMANO	SHIMANO	SORA	SORA	SORA	SORA
Model no.			FD-CX70-F-T	FD-CX70-F-D	FD-R3000-F	FD-R3000-B	FD-R3030-F	FD-R3030-B
Color	1		Gray	Gray	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Front speeds			2	2	2	2	3	3
Rear speeds			10	10	9	9	9	9
Compatible chain			HG 10-speed	HG 10-speed	-	-	-	-
Action	TOP SWING		-	-	-	-	-	-
	Down swing		✓	✓	✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	-	-	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)
		31.8	-	-	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)
		34.9	-	-	-	✓	-	✓
	Brazed-on		✓	✓	✓	-	✓	-
Cable adjust			-	-	-	-	-	-
Cable route type	Top-pull exclusive		✓	-	-	-	-	-
Chain line (mm)			43.5	43.5	43.5	43.5	45	45
Chainstay angle (deg.)			63-66	63-66	61-66	61-66	63-66	63-66
Top gear teeth			46-52T	46-52T	46-52T	46-52T	50T	50T
Total capacity			16T	16T	16T	16T	20T	20T
Applicable top-mid tooth difference			-	-	-	-	11T	11T
Angled clamp band design			-	-	✓	✓	✓	✓
Multi-bearing construction			-	-	-	-	-	-
Link bushings			7	7	-	-	-	-
Front clamp band	Material		-	-	-	Aluminum	-	Aluminum
	Finish		-	-	-	Painted	-	Painted
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
	Finish		-	-	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Stroke adjusting screw	Material		Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
	Finish		-	-	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g) (band type: L size, direct type w/ screw)			92	87	-	-	-	-
Note								

Front Derailleur

Series			CLARIS	CLARIS	CLARIS	CLARIS
Model no.			FD-R2000-F	FD-R2000-B	FD-R2030-F	FD-R2030-B
Color	1		Series color	Series color	Series color	Series color
	2		-	-	-	-
Front speeds			2	2	3	3
Rear speeds			8	8	8	8
Compatible chain			HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed
Action	TOP SWING		-	-	-	-
	Down swing		✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)
		31.8	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)
		34.9	-	✓	-	✓
	Brazed-on		✓		✓	
Cable adjust			-	-	-	-
Cable route type	Top-pull exclusive		-	-	-	-
Chain line (mm)			43.5	43.5	45	45
Chainstay angle (deg.)			61-66	61-66	63-66	63-66
Top gear teeth			46-52T	46-52T	50T	50T
Total capacity			16T	16T	20T	20T
Applicable top-mid tooth difference			-	-	11T	11T
Angled clamp band design			✓	✓	✓	✓
Multi-bearing construction			-	-	-	-
Link bushings			-	-	-	-
Front clamp band	Material		-	Steel	-	Steel
	Finish		-	Painted	-	Painted
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted
Clamp screw	Material		-	-	-	-
	Finish		-	-	-	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted
Inner link	Material		Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel
	Finish		Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing screw	Material		Steel	Steel	Steel	Steel
	Finish		Nickel plated	Nickel plated	Nickel plated	Nickel plated
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel
	Finish		Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g) (band type: L size, direct type w/ screw)			-	-	-	-
Note						

Crankset

Series		DURA-ACE	ULTEGRA	SHIMANO 105	SHIMANO	DURA-ACE	DURA-ACE
Model no.		FC-R9200	FC-R8100	FC-R7100	FC-RS520	FC-09	FC-R9100
Color	1	Series color	Series color	Black	Black	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12	12	12	12	11	11
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Chain line (mm)		44.5	44.5	44.5	44.5	44.5	43.5
P.C.D. (mm)		110	110	110	110	110	110
Spider/gear arms		4	4	4	4	4	4
Chainring combination		46-36T, 50-34T, 52-36T, 54-40T	46-36T, 50-34T, 52-36T	50-34T, 52-36T	50-34T	50-34T, 52-36T, 54-40T	50-34T, 52-36T, 53-39T, 54-42T, 55-42T
Q-factor (mm)		148	148	148	150	148	146
Crank arm length (mm)	160	✓	✓	✓	-	-	-
	165	✓	✓	✓	✓	✓	✓
	167.5	✓	-	-	-	✓	✓
	170	✓	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	✓	✓	✓
	175	✓	✓	✓	✓	✓	✓
	177.5	✓	-	-	-	✓	✓
	180	-	-	-	-	-	✓
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	✓	-	✓	✓
2-PIECE CRANKSET		-	-	-	✓	-	-
HOLLOWTECH crank arm		✓	✓	✓	-	✓	✓
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		✓	✓	-	-	✓	✓
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-R9100	SM-BBR60	SM-BBR60	BB-RS501	BB-R9100	BB-R9100
	Press-Fit	SM-BB92-41B	SM-BB72-41B	SM-BB72-41B	BB-RS500-PB	SM-BB92-41B	SM-BB92-41B
Axle length of BB-UN/ES (mm)		-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum/CFRP (except 46-36T), Aluminum (46-36T)	Aluminum/CFRP (except 46-36T), Aluminum (46-36T)	Aluminum+GFRP	Aluminum+Resin	Aluminum+CFRP	Aluminum/CFRP
	Finish	Anodized	Anodized	Anodized	Painted	Anodized	Anodized
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Stainless Steel	Stainless Steel	Aluminum	Aluminum
	Finish	Anodized	Anodized	-	-	Anodized	Anodized
Inner ring fixing screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		693 (46-36T) 685 (50-34T) 692 (52-36T) 714 (54-40T)	702 (46-36T) 700 (50-34T) 711 (52-36T)	754 (50-34T)	-	685 (50-34T) 692 (52-36T) 714 (54-40T)	614 (50-34T) 624 (52-36T) 626 (53-39T) 642 (54-42T) 650 (55-42T)
Note							

Crankset

Series		DURA-ACE	ULTEGRA	ULTEGRA	SHIMANO 105	SHIMANO	DURA-ACE
Model no.		FC-9000	FC-08	FC-R8000	FC-R7000	FC-RS510	FC-7710
Color	1	Series color	Series color	Series color	Silky black	Black	Series color
	2	-	-	-	Spark silver	-	-
Rear speeds		11	11	11	11	11	1
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	1/2 x 1/8, 1/2 x 3/32
Chain line (mm)		43.5	44.5	43.5	43.5	43.5	42.5
P.C.D. (mm)		110	110	110	110	110	144
Spider/gear arms		4	4	4	4	4	5
Chainring combination		50-34T, 52-36T, 52-38T, 53-39T, 54-42T, 55-42T	46-36T, 50-34T, 52-36T	46-36T, 50-34T, 52-36T, 53-39T	50-34T, 52-36T, 53-39T	46-36T, 50-34T, 52-36T	45T to 55T (1/2 x 1/8, 1/2 x 3/32)
Q-factor (mm)		146	148	146	146	150	136.3
Crank arm length (mm)	160	-	-	-	✓	-	-
	165	✓	✓	✓	✓	✓	✓
	167.5	✓	-	-	-	-	✓
	170	✓	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	✓	✓	✓
	175	✓	✓	✓	✓	✓	✓
	177.5	✓	-	-	-	-	-
	180	✓	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	✓	✓	-	-
2-PIECE CRANKSET		-	-	-	-	✓	-
HOLLOWTECH crank arm		✓	✓	✓	✓	-	✓
OCTALINK		-	-	-	-	-	✓
HOLLOWGLIDE		✓	✓	✓, - (46-36T)	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	-
	OCTALINK	-	-	-	-	-	✓
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-R9100	SM-BBR60	SM-BBR60	SM-BBR60	BB-RS501	BB-7710, BB-7700
	Press-Fit	SM-BB92-41B	SM-BB72-41B	SM-BB72-41B	SM-BB72-41B	BB-RS500-PB	-
Axle length of BB-UN/ES (mm)		-	-	-	-	-	109.5
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	-
	Finish	Plated	Plated	Plated	Plated	Plated	-
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum+CFRP or GFRP	Aluminum	Aluminum+CFRP or Aluminum (46-36T only)	Aluminum+GFRP	Aluminum+Resin	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Anodized	Anodized	-	-	-
Inner ring fixing screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		610 (50-34T) 618 (52-36T) 622 (52-38T) 618 (53-39T) 632 (54-42T) 639 (55-42T)	702 (46-36T) 700 (50-34T) 711 (52-36T)	668 (46-36T) 674 (50-34T) 681 (52-36T) 690 (53-39T)	713.4 (50-34T) 742.6 (52-36T) 757.8 (53-39T)	908 (50-34T)	566 (52T, 1/2 inch x 1/8 inch)
Note			*46T chairing color is black. Fixed with dedicated nuts.				

Crankset

Series		SHIMANO 105	SHIMANO 105	SHIMANO	TIAGRA	TIAGRA	SHIMANO
Model no.		FC-5750	FC-5703	FC-CX50	FC-4700	FC-4703	FC-RS400
Color	1	Black	Black	Silver	Series color	Series color	Black
	2	-	-	Black	-	-	-
Rear speeds		10	10	10	10	10	10
Compatible chain		HG 10-speed	HG 10-speed (for 3x10s)	HG 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Chain line (mm)		43.5	45	43.5	43.5	45	43.5
P.C.D. (mm)		110	130/74	110	110	110/74	110
Spider/gear arms		5	5	5	4	4	5
Chainring combination		50-34T	50-39-30T	46-36T	48-34T, 50-34T, 52-36T	50-39-30T	50-34T
Q-factor (mm)		146	154.76	150	150	158.8	150.3
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	✓	-	✓	✓	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	✓	✓	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	-	-	-	-
2-PIECE CRANKSET		-	-	✓	✓	✓	✓
HOLLOWTECH crank arm		✓	✓	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB5700	SM-BB5700	BB-RS501	BB-RS501	BB-RS501	BB-RS501
	Press-Fit	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB
Axle length of BB-UN/ES (mm)		-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	-
	Finish	Plated	Plated	Plated	Plated	Plated	-
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum/Resin (48-34T), Aluminum/GFRP (50-34T, 52-36T)	Aluminum+GFRP	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized+Painted (48-34T), Anodized (50-34T, 52-36T)	Anodized	Anodized
Middle ring	Material	-	Aluminum	-	-	Aluminum	-
	Finish	-	Anodized	-	-	Anodized	-
Inner ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Plated	Anodized
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing screw	Material	-	Stainless steel	-	-	Stainless steel	-
	Finish	-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		716	831	798	-	-	-
Note							

Crankset

Series		SORA	SORA	SORA	SORA	SHIMANO	CLARIS
Model no.		FC-R3030	FC-R3030-CG	FC-R3000	FC-R3000-CG	FC-R345	FC-R2030
Color	1	Series color	Series color	Series color	Series color	Silver	Series color
	2	-	-	-	-	Black	-
Rear speeds		9	9	9	9	9	8
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 8/7/6-speed
Chain line (mm)		45	45	43.5	43.5	43.5	45
P.C.D. (mm)		110/74	130/74	110	110	110	110/74
Spider/gear arms		4	5	4	5	5	4
Chainring combination		50-39-30T	50-39-30T	50-34T	50-34T	50-34T	50-39-30T
Q-factor (mm)		158.8	158.8	150	150	152.2	158.8
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	✓	✓	✓	-	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With chain guard	-	✓	-	✓	✓	-
	Without chain/bash guard	✓	-	✓	-	✓	✓
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		✓	✓	✓	✓	-	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	✓	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	-	✓
	OCTALINK	-	-	-	-	✓	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-RS501	BB-RS501	BB-RS501	BB-RS501	BB-ES300	BB-RS501
	Press-Fit	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	-	BB-RS500-PB
Axle length of BB-UN/ES (mm)		-	-	-	-	113	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	-	Steel
	Finish	Plated	Plated	Plated	Plated	-	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum+Resin	Aluminum+Resin	Aluminum+Resin	Aluminum+Resin	Aluminum	Steel+Resin
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Middle ring	Material	Steel	Steel	-	-	-	Steel
	Finish	Painted	Painted	-	-	-	Painted
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-	Stainless steel
	Finish	-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		-	-	-	-	-	-
Note			w/ Chain guard spec.		w/ Chain guard spec.		

Crankset

Series		CLARIS	CLARIS	CLARIS	SHIMANO
Model no.		FC-R2030-CG	FC-R2000	FC-R2000-CG	FC-RS200
Color	1	Series color	Series color	Series color	Black
	2	-	-	-	-
Rear speeds		8	8	8	8
Compatible chain		HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed
Chain line (mm)		45	43.5	43.5	43.5
P.C.D. (mm)		110/74	110	110	110
Spider/gear arms		4	4	4	5
Chainring combination		50-39-30T	50-34T	50-34T	46-34T, 50-34T
Q-factor (mm)		158.8	150	150	153.7
Crank arm length (mm)	160	-	-	-	-
	165	✓	✓	✓	✓
	167.5	-	-	-	-
	170	✓	✓	✓	✓
	172.5	-	-	-	-
	175	✓	✓	✓	✓
	177.5	-	-	-	-
	180	-	-	-	-
Optional chain guard	With chain guard	✓	-	✓	✓
	Without chain/bash guard	-	✓	-	✓
HOLLOWTECH II		-	-	-	-
2-PIECE CRANKSET		✓	✓	✓	-
HOLLOWTECH crank arm		-	-	-	-
OCTALINK		-	-	-	-
HOLLOWGLIDE		-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	-
	OCTALINK	-	-	-	-
	Square	-	-	-	✓
Recommended bottom bracket	Threaded (normal)	BB-RS501	BB-RS501	BB-RS501	BB-UN300
	Press-Fit	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	-
Axle length of BB-UN/ES (mm)		-	-	-	MM110
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓
	70	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	-
	Finish	Plated	Plated	Plated	-
Spider arm	Material	-	-	-	-
	Finish	-	-	-	-
Spider arm cover	Material	-	-	-	-
	Finish	-	-	-	-
Outer ring	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel
	Finish	Painted	Painted	Painted	Painted
Middle ring	Material	Steel	-	-	-
	Finish	Painted	-	-	-
Inner ring	Material	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-
Inner ring fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	-
	Finish	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		-	-	-	-
Note					

Crankset (Power Meter)

Series			DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA
Model no.			FC-R9200-P	FC-R9200-PX	FC-R9100-P	FC-R8100-P
Chainring combination			50-34T, 52-36T, 54-40T, w/o chainrings	50-34T, 52-36T, 54-40T	50-34T, 52-36T, 53-39T, w/o chainrings	50-34T, 52-36T, w/o chainrings
Crank arm length (mm)	160		✓ *	-	-	✓ *
	165		✓ (50-34T, 52-36T, w/o chainrings)	✓	✓ *	✓
	167.5		✓ *	-	✓ *	-
	170		✓	✓	✓	✓
	172.5		✓	✓	✓	✓
	175		✓	✓	✓	✓
	177.5		✓ *	-	✓ *	-
	180		-	-	✓ *	-
Force measurement	Right side		✓	✓	✓	✓
	Left side		✓	✓	✓	✓
	Number of strain sensor		24	24	24	24
Cadence measurement	Magnet		✓	✓	✓	✓
	Accelerometer		-	-	-	-
Accuracy (%)			±1.5	±1.5	±2	±2
LED for system status			✓	✓	✓	✓
Number of control button			1	1	1	1
Zero offset	By control button		✓	✓	✓	✓
	By device		✓	✓	✓	✓
Active temperature compensation			✓	✓	✓	✓
Battery	Type	Lithium ion	✓	✓	✓	✓
		Coin cell	-	-	-	-
	Life		226 h	226 h	300 h or longer	226 h
	Charging port		✓	✓	✓	✓
	Charging cable		EW-EC300	EW-EC300	Included	EW-EC300
Firmware update by E-TUBE PROJECT			✓	✓	✓	✓
Di2 connectivity wired	Di2 shifting		-	-	-	-
Di2 connectivity wireless	Di2 shifting		-	-	-	-
	Bluetooth® LE	Cycling power	✓	✓	✓	✓
	ANT+	Bicycle power	✓	✓	✓	✓
	Bluetooth® LE custom (*1)	Adjust mode information	-	-	-	-
		Di2 battery level	-	-	-	-
		Gear position	-	-	-	-
		SHIMANO E-BIKE SYSTEMS data items (*3)	-	-	-	-
		Compatible with E-TUBE RIDE	✓	✓	✓	✓
		Compatible with E-TUBE PROJECT	✓	✓	✓	✓
	ANT private (*2)	Adjust mode information	-	-	-	-
		Di2 battery level	-	-	-	-
		Gear position	-	-	-	-
		SHIMANO E-BIKE SYSTEMS data items (*3)	-	-	-	-
SD50 port (pcs)			0	0	0	0
SD300 port (pcs)			0	0	0	0
SD50 connector (pcs)			0	0	0	0
SD300 connector (pcs)			0	0	0	0
Average weight (g) (170 mm, w/o bottom bracket)			745 (50-34T) 752 (52-36T) 774 (54-40T)	745 (50-34T) 752 (52-36T) 774 (54-40T)	685 (50-34T) 695 (52-36T) 696 (53-39T)	758 (50-34T) 769 (52-36T)
Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile. *3 Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.			Crankset specifications not listed here are the same as FC-R9200 * w/o chainrings Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh	Crankset specifications not listed here are the same as FC-R9200 * w/o chainrings Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh	Crankset specifications not listed here are the same as FC-R9100 * w/o chainrings Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh	Crankset specifications not listed here are the same as FC-R8100 * w/o chainrings Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh

Bottom Bracket (HOLLOWTECH II)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BB-R9100	SM-BB92-41B	SM-BB72-41B	SM-BB71-41B	SM-BBR60	BB-RS501
HOLLOWTECH II bottom bracket	Threaded bottom bracket type	✓	-	-	-	✓	✓
	Press-Fit type	-	✓	✓	✓	-	-
Threaded bottom bracket shell width (mm)	68	✓	-	-	-	✓	✓
	70	✓	-	-	-	✓	✓
Press-Fit bottom bracket shell width (mm)	86.5	-	✓	✓	✓	-	-
Small ball bearing		✓	✓	✓	-	✓	-
Adapter	Material	Aluminum	Resin	Resin	Resin	Aluminum	Aluminum
	Finish	Anodized	-	-	-	Anodized	Anodized
Average weight (g)		65	54	69	71	77	93
Note							

Series		SHIMANO	SHIMANO
Model no.		BB-RS500	BB-RS500-PB
HOLLOWTECH II bottom bracket	Threaded bottom bracket type	✓	-
	Press-Fit type	-	✓
Threaded bottom bracket shell width (mm)	68	✓	-
	70	✓	-
Press-Fit bottom bracket shell width (mm)	86.5	-	✓
Small ball bearing		-	-
Adapter	Material	Aluminum	Resin
	Finish	Anodized	-
Average weight (g)		92	71
Note			

Bottom Bracket

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

Cassette

Series		DURA-ACE	ULTEGRA	ULTEGRA
Model no.		CS-R9200-12	CS-R8101-12	CS-R8100-12
Type		HYPERGLIDE+	HYPERGLIDE+	HYPERGLIDE+
Rear speeds		12	12	12
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed
Combination name (Group name)		11-30T, 11-34T	11-30T, 11-34T	11-30T, 11-34T
Combination * Titanium gear	1	11-12-13-14-15-16-17-19*-21*-24*-27*-30*T	11-12-13-14-15-16-17-19-21-24-27-30T	11-12-13-14-15-16-17-19-21-24-27-30T
	2	11-12-13-14-15-17-19*-21*-24*-27*-30*-34*T	11-12-13-14-15-17-19-21-24-27-30-34T	11-12-13-14-15-17-19-21-24-27-30-34T
	3	-	-	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	✓	✓	✓
	HG spline L (ROAD 12/11-speed)	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	2	2	2
	Finish	Anodized	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	5 (11-30T), 6 (11-34T)	0	0
	Finish	Titanium	-	-
Aluminum gear	QTY (pcs)	0	0	0
	Finish	-	-	-
Steel gear	QTY (pcs)	7 (11-30T), 6 (11-34T)	12	12
	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Average weight (g)		223 (11-30T) 253 (11-34T)	291 (11-30T) 345 (11-34T)	291 (11-30T) 345 (11-34T)
Note				

Series		SHIMANO 105	SHIMANO 105	SHIMANO
Model no.		CS-R7101-12	CS-R7100-12	CS-HG710-12
Type		HG	HG	HG
Rear speeds		12	12	12
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed
Combination name (Group name)		11-34T	11-34T	11-36T
Combination * Titanium gear	1	11-12-13-14-15-17-19-21-24-27-30-34T	11-12-13-14-15-17-19-21-24-27-30-34T	11-12-13-14-15-17-19-21-24-28-32-36T
	2	-	-	-
	3	-	-	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	✓	✓	✓
	HG spline L (ROAD 12/11-speed)	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	1	1	1
	Finish	Anodized	Anodized	Anodized
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	0	0	0
	Finish	-	-	-
Aluminum gear	QTY (pcs)	0	0	0
	Finish	-	-	-
Steel gear	QTY (pcs)	12	12	12
	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel	Steel
	Finish	Nickel plated	Nickel plated	Nickel plated
Average weight (g)		361	361	391
Note				

Cassette

Series		DURA-ACE	ULTEGRA	SHIMANO
Model no.		CS-R9100	CS-R8000	CS-HG800-11
Type		HG-EV	HG-EV	HG-EV
Rear speeds		11	11	11
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Combination name (Group name)		11-25T, 11-28T, 11-30T, 12-25T, 12-28T	11-25T, 11-28T, 11-30T, 11-32T, 12-25T, 14-28T	11-34T
Combination * Titanium gear	1	11-12-13-14-15-16-17*-19*-21*-23*-25*T	11-12-13-14-15-16-17-19-21-23-25T	11-13-15-17-19-21-23-25-27-30-34T
	2	11-12-13-14-15-17-19*-21*-23*-25*-28*T	11-12-13-14-15-17-19-21-23-25-28T	-
	3	11-12-13-14-15-17-19*-21*-24*-27*-30*T	11-12-13-14-15-17-19-21-24-27-30T	-
	4	12-13-14-15-16-17-18*-19*-21*-23*-25*T	12-13-14-15-16-17-18-19-21-23-25T	-
	5	12-13-14-15-16-17-19*-21*-23*-25*-28*T	14-15-16-17-18-19-20-21-23-25-28T	-
	6	-	11-12-13-14-16-18-20-22-25-28-32T	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 12/11-speed)	✓	✓	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	✓
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	1	1	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	1	1	2
	Finish	Anodized	Anodized	Anodized
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	5	0	0
	Finish	Titanium	-	-
Aluminum gear	QTY (pcs)	0	0	0
	Finish	-	-	-
Steel gear	QTY (pcs)	6	11	11
	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Average weight (g)		175 (11-25T) 193 (11-28T) 211 (11-30T) 189 (12-25T) 205 (12-28T)	232 (11-25T) 251 (11-28T) 269 (11-30T) 243 (12-25T) 300 (14-28T) 292 (11-32T)	335
Note				

Series		SHIMANO 105	SHIMANO	ULTEGRA
Model no.		CS-R7000	CS-HG700-11	CS-6700
Type		HG-EV	HG-EV	HG
Rear speeds		11	11	10
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG 10-speed
Combination name (Group name)		11-28T, 11-30T, 11-32T, 12-25T	11-34T	11-25T, 11-28T, 12-25T, 12-30T
Combination * Titanium gear	1	11-12-13-14-15-17-19-21-23-25-28T	11-13-15-17-19-21-23-25-27-30-34T	11-12-13-14-15-17-19-21-23-25T
	2	11-12-13-14-15-17-19-21-24-27-30T	-	11-12-13-14-15-17-19-21-24-28T
	3	11-12-13-14-16-18-20-22-25-28-32T	-	12-13-14-15-16-17-19-21-23-25T
	4	12-13-14-15-16-17-18-19-21-23-25T	-	12-13-14-15-17-19-21-24-27-30T
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 12/11-speed)	✓	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	✓	✓
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	1	1	1
	Finish	Anodized	Anodized	Anodized
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	0	0	0
	Finish	-	-	-
Aluminum gear	QTY (pcs)	0	0	0
	Finish	-	-	-
Steel gear	QTY (pcs)	11	11	10
	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel	Aluminum
	Finish	Nickel plated	Nickel plated	Anodized
Average weight (g)		284 (11-28T) 304 (11-30T) 320 (11-32T) 269 (12-25T)	379	230 (11-25T) 242 (11-28T) 238 (11-25T) 275 (12-30T)
Note				

Cassette

Series		SHIMANO	SHIMANO
Model no.		CS-HG500-10	CS-HG50-9
Type		HG	HG
Rear speeds		10	9
Compatible chain		HG-X 10-speed, HG 10-speed	HG 9-speed
Combination name (Group name)		11-25T, 12-28T, 11-32T, 11-34T	11-30T (bQ), 12-25T, 13-25T, 14-25T
Combination * Titanium gear	1	11-12-13-14-15-17-19-21-23-25T	11-12-14-16-18-20-23-26-30T (bQ)
	2	12-13-14-15-17-19-21-23-25-28T	12-13-14-15-17-19-21-23-25T
	3	11-12-14-16-18-20-22-25-28-32T	13-14-15-16-17-19-21-23-25T
	4	11-13-15-17-19-21-23-26-30-34T	14-15-16-17-18-19-21-23-25T
	5	-	-
	6	-	-
	7	-	-
Spline type	MICRO SPLINE	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-
	HG spline L (ROAD 12/11-speed)	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓	✓
	HG spline S (7-speed)	-	-
Carbon spider arm	QTY (pcs)	-	-
	Finish	-	-
Aluminum spider arm	QTY (pcs)	-	-
	Finish	-	-
Steel spider arm	QTY (pcs)	-	-
	Finish	-	-
Titanium gear	QTY (pcs)	0	0
	Finish	-	-
Aluminum gear	QTY (pcs)	0	0
	Finish	-	-
Steel gear	QTY (pcs)	10	9
	Finish	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel
	Finish	Nickel plated	Nickel plated
Average weight (g)		-	-
Note			

Front Hub (Rim/Disc Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	SHIMANO 105	SHIMANO 105
Model no.		HB-9000	HB-7710	HB-7600	HB-6800	HB-R7000	HB-R7070
Color	1 Hub shell	Series color	Silver	Silver	Series color	Silky black	Silky black
	1 Quick release	Series color	Silver	Silver	Series color	Black	-
	2 Hub shell	-	-	-	-	Spark silver	-
	2 Quick release	-	-	-	-	Black	-
Brake type		Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	CENTER LOCK disc brake
O.L.D. (mm)		100	100 (front), 120 (rear)	100 (front), 120 (rear)	100	100	100
Spoke hole	24H	✓	-	-	-	-	-
	28H	✓	✓	✓	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
Axle fixing method		Quick release	Nut	Nut	Quick release	Quick release	12 mm E-THRU
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	✓	-	-	✓	✓	-
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-	-
	100 x 12	-	-	-	-	-	✓
	100 x 15	-	-	-	-	-	-
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		74.0	74.0 (front), 72.5 (single thread/rear), 67.0 (double thread/ rear)	72.3 (front), 75.5 (single thread, rear), 65.0 (double thread, rear)	71.6	71.6	59.6
Offset (mm)		0	0 (front), 2.75 (single thread/rear), 0 (double thread/ rear)	0 (front), 5.25 (rear)	0	0	6
P.C.D. left / right (mm)		38	38 (Front), 44 (Rear)	67	40	38	44
Flange diameter (mm)		48.4	46 (Front), 52 (Rear)	75	50.4	48.4	52.8
Seal		Labyrinth+Contact	Dust cap	Dust cap	Labyrinth+Contact	Contact	Contact
Internal grease sleeve		✓	-	-	✓	✓	✓
Digital adjustment system		✓	-	-	✓	-	-
Bearing	Stainless ball	✓	✓	✓	-	-	-
	Cup	Super finishing **	Polish	CBN+Polish	Polish	Polish	Polish
	Cone	CBN+Polish	CBN+Polish	CBN+Polish	CBN+Polish	CBN+Polish	CBN+Polish
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Steel	Steel	Aluminum	Steel	Aluminum
	Finish	Anodized	Plating	Plating	Anodized	-	Anodized
Quick release lever	Material	Aluminum	-	-	Aluminum	Aluminum	-
	Finish	Anodized	-	-	Anodized	Anodized	-
Quick release housing	Material	Anodized	-	-	Aluminum	Aluminum	-
	Finish	Silver	-	-	Anodized	Anodized	-
Quick release nut	Material	Anodized	-	-	Resin	Resin	-
	Finish	Silver	-	-	Black	Black	-
Radial lacing		✓	-	-	✓	✓	-
Average weight (g) (w/o axle and lock ring)		120	298 (rear w/ lock ring), 203 (front)	313 (rear LF w/ lock ring) 241 (front LF)	158	155	165
Note		* Aero spoke hole available(18H/24H) ** Super Finishing	For Track * Dishing Distance R (Single Thread): 2.75 mm / (Double Thread): 0			-	-

Front Hub (Rim/Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		HB-RS770	HB-RS400	HB-RS470	HB-RS300
Color	1 Hub shell	Black/Silver	Black	Black	Silver
	1 Quick release	-	Black	-	Silver
	2 Hub shell	-	Silver	-	Black
	2 Quick release	-	Black	-	Black
Brake type		CENTER LOCK disc brake	Rim brake	CENTER LOCK disc brake	Rim brake
O.L.D. (mm)		100	100	100	100
Spoke hole	24H	-	-	-	-
	28H	✓	✓	✓	✓
	32H	✓	✓	✓	✓
	36H	✓	✓	-	✓
Axle fixing method		12 mm E-THRU	Quick release	12 mm E-THRU	Quick release
Quick release skewer length (mm)	129	-	-	-	✓
	133	-	✓	-	✓
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-
	100 x 12	✓	-	✓	-
	100 x 15	-	-	-	-
	110 x 20	-	-	-	-
Flange distance (mm)		59.6	71.6	59.6	71.6
Offset (mm)		6	0	6.3	0
P.C.D. left / right (mm)		44	38	44	38
Flange diameter (mm)		52.8	48.4	52.8	48.4
Seal		Labyrinth+Contact	Contact	Contact	Contact
Internal grease sleeve		-	✓	✓	-
Digital adjustment system		-	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	CBN	Polish	Polish	-
	Cone	CBN	CBN	CBN+Polish	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Steel	Aluminum	Steel
	Finish	Anodized	-	-	-
Quick release lever	Material	-	Aluminum	-	Aluminum
	Finish	-	Painted	-	Painted
Quick release housing	Material	-	Aluminum	-	Steel
	Finish	-	Painted	-	Painted
Quick release nut	Material	-	Resin	-	Resin
	Finish	-	Black	-	Black
Radial lacing		-	✓	✓	✓
Average weight (g) (w/o axle and lock ring)		125	-		-
Note		-		-	

FREEHUB (Rim/Disc Brake)

Series		DURA-ACE	ULTEGRA	SHIMANO 105	SHIMANO 105	SHIMANO	SHIMANO
Model no.		FH-9000	FH-6800	FH-R7000	FH-R7070	FH-RS770	FH-RS400
Color	1 Hub shell	Series color	Series color	Silky black	Silky black	Black/Silver	Black
	1 Quick release	Series color	Series color	Black	Black	-	Black
	2 Hub shell	-	-	Spark silver	-	-	Silver
	2 Quick release	-	-	Black	-	-	Black
Brake type		Rim brake	Rim brake	Rim brake	CENTER LOCK disc brake	CENTER LOCK disc brake	Rim brake
Rear speeds		11/10 *	11/10 *	11/10 *	11/10 *	11/10 *	11/10
O.L.D. (mm)		130	130	130	142	142	130
Spoke hole	24H	✓	-	-	-	-	-
	28H	✓	-	-	-	✓	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	-	-	-	-	-
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	-	-	✓	✓	-
CENTER LOCK mount cover option		-	-	-	✓	-	-
Axle fixing method		Quick release	Quick release	Quick release	12 mm E-THRU	12 mm E-THRU	Quick release
Quick release skewer length (mm)	161	-	-	-	-	-	-
	163	✓	✓	✓	-	-	✓
	166	-	-	-	-	-	-
	168	✓	✓	✓	-	-	✓
	170	-	-	-	-	-	-
	173	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	✓	✓	-
	148 x 12	-	-	-	-	-	-
	150 x 12	-	-	-	-	-	-
Flange distance (mm)		56.9 **	56.9	56.9	55.7	55.7	56.9
Offset (mm)		9.75 **	9.7	9.75	7.45	7.5	9.75
P.C.D. left / right (mm)		44/45	44/45	44/45	44/45	44/45	44/45
Flange diameter left / right (mm)		52.8/53.8	52.8/53.8	52.8/53.8	52.8/53.8	52.8/53.8	52.8/53.8
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	✓	✓	✓	✓	✓	✓
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		✓	✓	✓	✓	-	✓
Digital adjustment system		✓	✓	-	-	-	-
Bearing	Stainless ball	✓	-	-	-	-	-
	Cup	CBN	Polish	Polish	Polish	CBN	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
FREEHUB body	Material	Titanium	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Steel
	Finish	Anodized	Anodized	-	-	Anodized	-
Quick release lever	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
	Finish	Anodized	Anodized	Anodized	-	-	Painted
	Color	9000SLV	Black	Black	-	-	Black
Quick release housing	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
	Finish	Anodized	Anodized	Anodized	-	-	Painted
Quick release nut	Material	Aluminum	Resin	Resin	-	-	Resin
	Finish	Anodized	Black	Black	-	-	Black
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Radial lacing		-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		247	330	368	361	302	-
Note		* Can be used for 10-speed with an additional spacer ** Aero spoke hole available *** Flange Distance:56.5, Dish:9.95(only for 28H), **** Super Finishing.	* Can be used for 10-speed with an additional spacer	* Can be used for 10-speed with an additional spacer	* Can be used for 10-speed with an additional spacer.	* Can be used for 10-speed with an additional spacer. For disc brake/ CENTER LOCK mount	* Can be used for 10-speed with an additional spacer

FREEHUB (Rim/Disc Brake)

Series		SHIMANO	SHIMANO
Model no.		FH-RS470	FH-RS300
Color	1 Hub shell	Black	Silver
	1 Quick release	-	Silver
	2 Hub shell	-	Black
	2 Quick release	-	Black
Brake type		CENTER LOCK disc brake	Rim brake
Rear speeds		11/10 *	11/10/9/8/7
O.L.D. (mm)		142	130
Spoke hole	24H	-	-
	28H	✓	✓
	32H	✓	✓
	36H	-	✓
External serration disc brake rotor lock ring	With	-	-
	Without	-	-
Internal serration disc brake rotor lock ring	With	-	-
	Without	✓	-
CENTER LOCK mount cover option		-	-
Axle fixing method		12 mm E-THRU	Quick release
Quick release skewer length (mm)	161	-	-
	163	-	✓
	166	-	-
	168	-	✓
	170	-	-
	173	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-
	135 x 12	-	-
	142 x 12	✓	-
	148 x 12	-	-
	150 x 12	-	-
Flange distance (mm)		55.7	57.9
Offset (mm)		7.45	8.4
P.C.D. left / right (mm)		44/45	45
Flange diameter left / right (mm)		52.8/53.8	53.8
Spline type	MICRO SPLINE	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-
	HG spline L (ROAD 12/11-speed)	✓	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	✓
	HG spline S (7-speed)	-	-
Seal	Hub	Contact	Contact
	FREEHUB body	Contact	Contact
Internal grease sleeve		✓	✓
Digital adjustment system		-	-
Bearing	Stainless ball	-	-
	Cup	Polish	-
	Cone	CBN	-
FREEHUB body	Material	Steel	Steel
	Finish	-	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Axle	Material	Steel	Steel
	Finish	-	-
Quick release lever	Material	-	Aluminum
	Finish	-	Painted
	Color	-	Black
Quick release housing	Material	-	Steel
	Finish	-	Painted
Quick release nut	Material	-	Resin
	Finish	-	Black
Disc brake rotor lock ring	Material	-	-
	Finish	-	-
Radial lacing		-	-
Average weight (g) (w/o axle, quick release nor lock ring)		-	-
Note		* Can be used for 10-speed with an additional spacer	

Wheel (Disc Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.		WH-R9270-C60-HR-TU-F	WH-R9270-C60-HR-TU-R	WH-R9270-C60-HR-TL-F	WH-R9270-C60-HR-TL-R	WH-R9270-C50-TU-F	WH-R9270-C50-TU-R
Model name		WH-R9270-C60-HR-TU	WH-R9270-C60-HR-TU	WH-R9270-C60-HR-TL	WH-R9270-C60-HR-TL	WH-R9270-C50-TU	WH-R9270-C50-TU
Specification		F	R	F	R	F	R
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Rear	Front	Rear	Front	Rear
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		-	12	-	12	-	12
O.L.D. (mm)		100	142	100	142	100	142
Wheel size		700C	700C	622 x 21C (700C)	622 x 21C (700C)	700C	700C
Tire	Type	Tubular	Tubular	Tubeless	Tubeless	Tubular	Tubular
	Recommended size	25-28" - 32-28"	25-28" - 32-28"	25-622 - 32-622	25-622 - 32-622	25-28" - 32-28"	25-28" - 32-28"
Rim	Height (mm)	60	60	60	60	50	50
	Internal width (mm)	-	-	21	21	-	-
	External width (mm)	28	28	28	28	28	28
	Rim joint	-	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	-	-	✓	✓	-	-
Spokes	Number	24	24	24	24	24	24
	Straight pull	✓	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓	✓
	Diameter (mm)	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.5-2.0	2.0-1.5-2.0
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-	-
	163	-	-	-	-	-	-
	168	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-	-
	100 x 12	✓	-	✓	-	✓	-
	142 x 12	-	✓	-	✓	-	✓
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	✓	-	✓	-	✓
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	Direct engagement	-	Direct engagement	-	Direct engagement
Bearing	Stainless ball	✓	✓	✓	✓	✓	✓
	Cup	CBN	CBN	CBN	CBN	CBN	CBN
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-	-	-
	140 mm disc brake rotor compatible	✓	✓	✓	✓	✓	✓
OPTBAL (2:1)		✓	✓	✓	✓	-	✓
D2 rim		✓	✓	✓	✓	✓	✓
Digital adjustment system		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal grease sleeve		-	-	-	-	-	-
Rim	Material	Carbon	Carbon	Carbon	Carbon	Carbon	Carbon
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Series color	Series color	Series color	Series color	Series color	Series color
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Series color	Series color	Series color	Series color	Series color	Series color
FREEHUB body	Material	-	Aluminum	-	Aluminum	-	Aluminum
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Compatible spoke protector		-	CP-WR92C	-	CP-WR92C	-	CP-WR92A
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 (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		667	770	751	858	610	723
Note							

Wheel (Disc Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.		WH-R9270-C50-TL-F	WH-R9270-C50-TL-R	WH-R9270-C36-TU-F	WH-R9270-C36-TU-R	WH-R9270-C36-TL-F	WH-R9270-C36-TL-R
Model name		WH-R9270-C50-TL	WH-R9270-C50-TL	WH-R9270-C36-TU	WH-R9270-C36-TU	WH-R9270-C36-TL	WH-R9270-C36-TL
Specification		F	R	F	R	F	R
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Rear	Front	Rear	Front	Rear
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		-	12	-	12	-	12
O.L.D. (mm)		100	142	100	142	100	142
Wheel size		622 x 21C (700C)	622 x 21C (700C)	700C	700C	622 x 21C (700C)	622 x 21C (700C)
Tire	Type	Tubeless	Tubeless	Tubular	Tubular	Tubeless	Tubeless
	Recommended size	25-622 - 32-622	25-622 - 32-622	25-28" - 32-28"	25-28" - 32-28"	25-622 - 32-622	25-622 - 32-622
Rim	Height (mm)	50	50	36	36	36	36
	Internal width (mm)	21	21	-	-	21	21
	External width (mm)	28	28	28	28	28	28
	Rim joint	-	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓	✓	-	-	✓	✓
Spokes	Number	24	24	24	24	24	24
	Straight pull	✓	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓	✓
	Diameter (mm)	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-	-
	163	-	-	-	-	-	-
	168	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-	-
	100 x 12	✓	-	✓	-	✓	-
	142 x 12	-	✓	-	✓	-	✓
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	✓	-	✓	-	✓
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	Direct engagement	-	Direct engagement	-	Direct engagement
Bearing	Stainless ball	✓	✓	✓	✓	✓	✓
	Cup	CBN	CBN	CBN	CBN	CBN	CBN
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-	-	-
	140 mm disc brake rotor compatible	✓	✓	✓	✓	✓	✓
OPTBAL (2:1)		-	✓	-	✓	-	✓
D2 rim		✓	✓	✓	✓	✓	✓
Digital adjustment system		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal grease sleeve		-	-	-	-	-	-
Rim	Material	Carbon	Carbon	Carbon	Carbon	Carbon	Carbon
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Series color	Series color	Series color	Series color	Series color	Series color
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Series color	Series color	Series color	Series color	Series color	Series color
FREEHUB body	Material	-	Aluminum	-	Aluminum	-	Aluminum
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Compatible spoke protector		-	CP-WR92A	-	CP-WR92A	-	CP-WR92A
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 (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		674	787	522	632	620	730
Note							

Wheel (Disc Brake)

Series		ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		WH-R8170-C60-TL-F	WH-R8170-C60-TL-R	WH-R8170-C50-TL-F	WH-R8170-C50-TL-R	WH-R8170-C36-TL-F	WH-R8170-C36-TL-R
Model name		WH-R8170-C60-TL	WH-R8170-C60-TL	WH-R8170-C50-TL	WH-R8170-C50-TL	WH-R8170-C36-TL	WH-R8170-C36-TL
Specification		F	R	F	R	F	R
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Rear	Front	Rear	Front	Rear
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		-	12/11	-	12/11	-	12/11
O.L.D. (mm)		100	142	100	142	100	142
Wheel size		622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	25-622 - 32-622	25-622 - 32-622	25-622 - 32-622	25-622 - 32-622	25-622 - 32-622	25-622 - 32-622
Rim	Height (mm)	60	60	50	50	36	36
	Internal width (mm)	21	21	21	21	21	21
	External width (mm)	28	28	28	28	28	28
	Rim joint	-	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓	✓	✓	✓	✓	✓
Spokes	Number	24	24	24	24	24	24
	Straight pull	✓	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓	✓
	Diameter (mm)	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-	-
	163	-	-	-	-	-	-
	168	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-	-
	100 x 12	✓	-	✓	-	✓	-
	142 x 12	-	✓	-	✓	-	✓
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	✓	-	✓	-	✓
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-	-	-
	140 mm disc brake rotor compatible	✓	✓	✓	✓	✓	✓
OPTBAL (2:1)		-	✓	-	✓	-	✓
D2 rim		✓	✓	✓	✓	✓	✓
Digital adjustment system		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal grease sleeve		✓	✓	✓	✓	✓	✓
Rim	Material	Carbon	Carbon	Carbon	Carbon	Carbon	Carbon
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Series color	Series color	Series color	Series color	Series color	Series color
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Series color	Series color	Series color	Series color	Series color	Series color
FREEHUB body	Material	-	Steel	-	Steel	-	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Compatible spoke protector		-	CP-WR81A	-	CP-WR81A	-	CP-WR81A
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 (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		738	911	698	872	657	831
Note							

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	DURA-ACE	SHIMANO
Model no.		WH-RS710-C32-TL-F	WH-RS710-C32-TL-R	WH-RS710-C46-TL-F	WH-RS710-C46-TL-R	WH-R9170-C60-TU-F12	WH-RS370-TL-F12
Model name		WH-RS710	WH-RS710	WH-RS710	WH-RS710	WH-R9170-C60-TU	WH-RS370-TL
Specification		C32-TL-F	C32-TL-R	C46-TL-F	C46-TL-R	F12	F12
Color	1 Hub shell	Black	Black	Black	Black	Series color	Black
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Rear	Front	Rear	Front	Front
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		-	12/11	-	12/11	-	-
O.L.D. (mm)		100	142	100	142	100	100
Wheel size		622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)	700C	622 x 19C (700C)
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubular	Tubeless
	Recommended size	25-622 - 32-622	25-622 - 32-622	25-622 - 32-622	25-622 - 32-622	23-28" - 28-28"	28-622 - 45-622
Rim	Height (mm)	32	32	46	46	60	19
	Internal width (mm)	21	21	21	21	-	19
	External width (mm)	28	28	28	28	28	23.4
	Rim joint	-	-	-	-	-	Welded
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓	✓	✓	✓	-	✓
Spokes	Number	24	24	24	24	24	24
	Straight pull	-	-	-	-	✓	✓
	Bladed	✓	✓	✓	✓	✓	-
	Butted	✓	✓	✓	✓	✓	-
	Diameter (mm)	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.8-2.0	2.0-1.8-2.0
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-	-
	163	-	-	-	-	-	-
	168	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-	-
	100 x 12	✓	-	✓	-	✓	✓
	142 x 12	-	✓	-	✓	-	-
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	✓	-	✓	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	Pawl ratchet	-	Pawl ratchet		
Bearing	Stainless ball	-	-	-	-	✓	-
	Cup	Polish	Polish	Polish	Polish	CBN	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-	-	-
	140 mm disc brake rotor compatible	✓	✓	✓	✓	✓	✓
OPTBAL (2:1)		-	-	-	-	-	-
D2 rim		✓	✓	✓	✓	✓	-
Digital adjustment system		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-	-
Internal grease sleeve		-	-	-	-	✓	✓
Rim	Material	Carbon	Carbon	Carbon	Carbon	Carbon	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black	Black	Black	Black	Silver	Black
FREEHUB body	Material	-	Steel	-	Steel	-	-
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Compatible spoke protector		-	CP-WH24(11-28,30,32,34T) CP-WR71A(11-36T)	-	CP-WH24(11-28,30,32,34T) CP-WR71A(11-36T)	-	-
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 (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		665	839	719	893	678	890
Note							-

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-RS370-TL-R12	WH-RS171-CL-F12-700C	WH-RS171-CL-R12-700C	WH-RX010-CL-F	WH-RX010-CL-R
Model name		WH-RS370-TL	WH-RS171-CL	WH-RS171-CL	WH-RX010-CL	WH-RX010-CL
Specification		R12	F12-700c	R12-700c	F	R
Color	1 Hub shell	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	Black	Black
	2 Hub shell	-	-	-	-	-
	2 Quick release	-	-	-	-	-
Front/Rear		Rear	Front	Rear	Front	Rear
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		11/10 *	-	11/10 *	-	11/10 *
O.L.D. (mm)		142	100	142	100	135
Wheel size		622 x 19C (700C)	622 x 19C (700C)	622 x 19C (700C)	622 x 17C (700C)	622 x 17C (700C)
Tire	Type	Tubeless	Clincher	Clincher	Clincher	Clincher
	Recommended size	28-622 - 45-622	28-622 - 42-622	28-622 - 42-622	25-622 - 38-622	25-622 - 38-622
Rim	Height (mm)	19	19	19	24	24
	Internal width (mm)	19	19	19	-	-
	External width (mm)	23.4	24.6	24.6	23	23
	Rim joint	Welded	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
	Requires rim tape	✓	✓	✓	✓	✓
Spokes	Number	24	28	28	28	28
	Straight pull	✓	-	-	-	-
	Bladed	-	-	-	-	-
	Butted	-	-	-	-	-
	Diameter (mm)	2.0-1.8-2.0	2	2	2	2
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release	Quick release
Quick release skewer length (mm)	133	-	-	-	✓	-
	163	-	-	-	-	-
	168	-	-	-	-	✓
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-
	100 x 12	-	✓	-	-	-
	142 x 12	✓	-	✓	-	-
Spline type	MICRO SPLINE	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	✓	-	✓	-	✓
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-
Engagement type			-	Pawl ratchet	-	Pawl ratchet
Bearing	Stainless ball	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish
	Cone	CBN	CBN	CBN	CBN	CBN
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-	-
	140 mm disc brake rotor compatible	✓	✓	✓	✓	✓
OPTBAL (2:1)		-	-	-	-	-
D2 rim		-	-	-	-	-
Digital adjustment system		-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	-	Contact	-	Contact
Internal grease sleeve		✓	✓	✓	✓	✓
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized (black)	Anodized (black)
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Brass	Brass	Brass	Brass
	Finish	Black	Silver	Silver	Silver	Silver
FREEHUB body	Material	Steel	-	Steel	-	Steel
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Aluminum	Aluminum	Steel	Steel
	Finish	-	-	-	-	-
Quick release lever	Material	-	-	-	Aluminum	Aluminum
	Finish	-	-	-	Painted	Painted
Quick release housing	Material	-	-	-	Steel	Steel
	Finish	-	-	-	Painted	Painted
Quick release nut	Material	-	-	-	Resin	Resin
	Finish	-	-	-	Black	Black
Compatible spoke protector		CP-FH08 (23T-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 11/10-speed)	-	CP-FH08 (23T-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 11/10-speed)	-	CP-FH08/CP-WH12 (11-speed), CP-FH40/CP-FH41/CP-WH12 (10-speed)
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	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 (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		1090	897	1098	982	1177
Note		* The adapter is needed to use 10-speed cassette		* The adapter is needed to use 10-speed cassette		* The adapter is needed to use 10-speed cassette

Wheel (Rim Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.		WH-R9200-C60-HR-TU-F	WH-R9200-C60-HR-TU-R	WH-R9200-C50-TU-F	WH-R9200-C50-TU-R	WH-R9200-C36-TU-F	WH-R9200-C36-TU-R
Model name		WH-R9200-C60-HR-TU	WH-R9200-C60-HR-TU	WH-R9200-C50-TU	WH-R9200-C50-TU	WH-R9200-C36-TU	WH-R9200-C36-TU
Specification		F	R	F	R	F	R
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	Series color	Series color	Series color	Series color	Series color	Series color
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Rear	Front	Rear	Front	Rear
Brake type		Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
Rear speeds		-	12	-	12	-	12
O.L.D. (mm)		100	130	100	130	100	130
Wheel size		700C	700C	700C	700C	700C	700C
Tire	Type	Tubular	Tubular	Tubular	Tubular	Tubular	Tubular
	Recommended size	25-28" - 32-28"	25-28" - 32-28"	25-28" - 32-28"	25-28" - 32-28"	25-28" - 32-28"	25-28" - 32-28"
Rim	Height (mm)	60	60	50	50	36	36
	Internal width (mm)	-	-	-	-	-	-
	External width (mm)	28	28	28	28	28	28
	Rim joint	-	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	-	-	-	-	-	-
Spokes	Number	16	21	16	21	16	21
	Straight pull	✓	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓	✓
	Diameter (mm)	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0
Axle fixing method		Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
Quick release skewer length (mm)	133	✓	-	✓	-	✓	-
	163	-	✓	-	✓	-	✓
	168	-	✓	-	✓	-	✓
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	✓	-	✓	-	✓
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	Direct engagement	-	Direct engagement	-	Direct engagement
Bearing	Stainless ball	✓	✓	✓	✓	✓	✓
	Cup	CBN	CBN	CBN	CBN	CBN	CBN
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Disc mount	CENTER LOCK	-	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-	-
	140 mm disc brake rotor compatible	-	-	-	-	-	-
OPTBAL (2:1)		-	✓	-	✓	-	✓
D2 rim		-	-	-	-	-	-
Digital adjustment system		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal grease sleeve		-	-	-	-	-	-
Rim	Material	Carbon	Carbon	Carbon	Carbon	Carbon	Carbon
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Series color	Series color	Series color	Series color	Series color	Series color
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Series color	Series color	Series color	Series color	Series color	Series color
FREEHUB body	Material	-	Aluminum	-	Aluminum	-	Aluminum
	Finish	-	Anodized	-	Anodized	-	Anodized
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release nut	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Series color	Series color	Series color	Series color	Series color	Series color
Compatible spoke protector		-	CP-W124	-	CP-W124	-	CP-W124
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		653	796	586	723	602	684
Note							

Wheel (Rim Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-R9100-C60-TU-F	WH-R9100-C40-TU-F	WH-R9100-C40-TU-R	WH-RS700-C30-TL-F	WH-RS700-C30-TL-R	WH-RS500-TL-F
Model name		WH-R9100-C60-TU	WH-R9100-C40-TU-F	WH-R9100-C40-TU-R	WH-RS700-C30-TL	WH-RS700-C30-TL	WH-RS500-TL
Specification		F	F	R	F	R	F
Color	1 Hub shell	Series color	Series color	Series color	Silver	Silver	Silver
	1 Quick release	Series color	Series color	Series color	Silver	Silver	Silver
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Front	Rear	Front	Rear	Front
Brake type		Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
Rear speeds		-	-	11/10 *	-	11/10 *	-
O.L.D. (mm)		100	100	130	100	130	100
Wheel size		700C	700C	700C	622 x 15C (700C)	622 x 15C (700C)	622 x 15C (700C)
Tire	Type	Tubular	Tubular	Tubular	Tubeless	Tubeless	Tubeless
	Recommended size	23-28" - 28-28"	23-28" - 28-28"	23-28" - 28-28"	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622
Rim	Height (mm)	60	37	37	24	31	24
	Internal width (mm)	-	-	-	15	15	15
	External width (mm)	28	28	28	20.8	20.8	20.8
	Rim joint	-	-	-	Welded	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	✓
	OFFSET RIM	-	-	✓	-	✓	-
	Requires rim tape	-	-	-	✓	✓	-
Spokes	Number	16	16	21	16	21	16
	Straight pull	✓	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓	✓
	Diameter (mm)	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.5-2.0	2.0-1.8-2.0	2.0-1.5-2.0
Axle fixing method		Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
Quick release skewer length (mm)	133	✓	✓	-	✓	-	✓
	163	-	-	✓	-	✓	-
	168	-	-	✓	-	✓	-
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	✓	-	✓	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	-	Pawl ratchet	-	Pawl ratchet	-
Bearing	Stainless ball	✓	✓	✓	✓	-	-
	Cup	CBN	CBN	CBN	CBN	CBN	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN+Polish
Disc mount	CENTER LOCK	-	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-	-
	140 mm disc brake rotor compatible	-	-	-	-	-	-
OPTBAL (2:1)		-	-	✓	-	✓	-
D2 rim		✓	✓	✓	-	-	-
Digital adjustment system		✓	✓	✓	-	-	✓
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	-	Contact	-	Contact	-
Internal grease sleeve		✓	✓	✓	✓	✓	✓
Rim	Material	Carbon	Carbon	Carbon	Carbon+AL	Carbon+AL	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Silver	Silver	Silver	Black	Black	Black
FREEHUB body	Material	-	-	Titanium (rear)	-	Steel	-
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release nut	Material	Aluminum	Aluminum	Aluminum	Resin	Resin	Resin
	Finish	Series color	Series color	Series color	Black	Black	Black
Compatible spoke protector		-	-	CP-W124	-	CP-W124	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		666	637	747	616	924	705
Note		-	-	* The adapter is needed to use 10-speed cassette		* The adapter is needed to use 10-speed cassette	

Wheel (Rim Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-RS500-TL-R	WH-RS300-CL-F	WH-RS300-CL-R	WH-RS330-CL-F	WH-RS330-CL-R	WH-RS100-CL-F
Model name		WH-RS500-TL	WH-RS300-CL	WH-RS300-CL	WH-RS330-CL	WH-RS330-CL	WH-RS100-CL
Specification		R	F	R	F	R	F
Color	1 Hub shell	Silver	Black	Black	Black	Black	Black
	1 Quick release	Silver	Black	Black	Black	Black	Black
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Rear	Front	Rear	Front	Rear	Front
Brake type		Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
Rear speeds		11/10 *	-	11/10 *	-	11/10 *	-
O.L.D. (mm)		130	100	130	100	130	100
Wheel size		622 x 15C (700C)	622 x 17C (700C)	622 x 17C (700C)	622 x 15C (700C)	622 x 15C (700C)	622 x 17C (700C)
Tire	Type	Tubeless	Clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622
Rim	Height (mm)	24	24	24	30	30	24
	Internal width (mm)	15	17	17	15	15	17
	External width (mm)	20.8	23.2	23.2	20.8	20.8	23.2
	Rim joint	Welded	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	✓	-	-	-	-	-
	OFFSET RIM	✓	-	✓	-	✓	-
	Requires rim tape	-	18-622	18-622	✓	✓	18-622
Spokes	Number	20	16	20	16	21	20
	Straight pull	✓	✓	✓	✓	✓	-
	Bladed	✓	✓	✓	✓	✓	-
	Butted	✓	✓	✓	✓	✓	-
	Diameter (mm)	2.0-1.8-2.0	2	2	2	2	2
Axle fixing method		Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
Quick release skewer length (mm)	133	-	✓	-	✓	-	✓
	163	✓	-	✓	-	✓	-
	168	✓	-	✓	-	✓	-
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	✓	-	✓	-	✓	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish	Polish
	Cone	CBN+Polish	CBN	CBN	CBN+Polish	CBN+Polish	CBN
Disc mount	CENTER LOCK	-	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-	-
	140 mm disc brake rotor compatible	-	-	-	-	-	-
OPTBAL (2:1)		-	-	-	-	✓	-
D2 rim		-	-	-	-	-	-
Digital adjustment system		✓	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	-	Contact	-	Contact	-
Internal grease sleeve		✓	✓	✓	✓	✓	-
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Black	Black	Painted	Painted	Black
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Brass
	Finish	Black	Black anodized	Black anodized	Black	Black	Silver
FREEHUB body	Material	Steel	-	Steel	-	Steel	-
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized			Painted
Axle	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Anodized	-	-	-	-	-
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized			Painted
Quick release housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Black
Quick release nut	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	Black	Black	Black	Black	Black	Black
Compatible spoke protector		CP-WH23 (23-28T) CP-W120 (32T) CP-W020 (10-speed)	-	CP-WH23 (23-28T) CP-W120 (32T)	-	CP-W124	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		944	770	1057	875	1176	827
Note		* The adapter is needed to use 10-speed cassette	-	* The adapter is needed to use 10-speed cassette		* The adapter is needed to use 10-speed cassette	-

Wheel (Rim Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-RS100-CL-R	WH-RS010-CL-F	WH-RS010-CL-R	WH-R501-A-CL-F	WH-R501-A-CL-R	WH-R501-CL-F
Model name		WH-RS100-CL	WH-RS010-CL	WH-RS010-CL	WH-R501-A-CL	WH-R501-A-CL	WH-R501-CL
Specification		R	F	R	F	R	F
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	Black	Black	Black
	2 Hub shell	-	-	-	Silver	Silver	Silver
	2 Quick release	-	Black	Black	Black	Black	Black
Front/Rear		Rear	Front	Rear	Front	Rear	Front
Brake type		Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
Rear speeds		11/10 *	-	11/10 *	-	11/10/9/8/7	-
O.L.D. (mm)		130	100	130	100	130	100
Wheel size		622 x 17C (700C)	622 x 15C (700C)	622 x 15C (700C)	622 x 15C (700C)	622 x 15C (700C)	622 x 15C (700C)
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622
Rim	Height (mm)	24	24	24	24	24	24
	Internal width (mm)	17	15	15	15	15	15
	External width (mm)	23.2	20.8	20.8	20.8	20.8	20.8
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	✓	-	✓	-	-	-
	Requires rim tape	18-622	✓	✓	✓	✓	✓
Spokes	Number	24	20	24	20	24	20
	Straight pull	-	-	-	-	-	-
	Bladed	-	-	-	✓	✓	-
	Butted	-	-	-	-	-	-
	Diameter (mm)	2	2	2	2	2	2
Axle fixing method		Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
Quick release skewer length (mm)	133	-	✓	-	✓	-	✓
	163	✓	-	✓	-	✓	-
	168	✓	-	✓	-	✓	-
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	✓	-	✓	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	✓	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Disc mount	CENTER LOCK	-	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-	-
	140 mm disc brake rotor compatible	-	-	-	-	-	-
OPTBAL (2:1)		-	-	-	-	-	-
D2 rim		-	-	-	-	-	-
Digital adjustment system		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	-	Contact	-	Contact	-
Internal grease sleeve		-	-	-	-	-	-
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass	Brass
	Finish	Silver	Silver	Silver	Silver	Silver	Silver
FREEHUB body	Material	Steel	-	Steel	-	Steel	-
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Quick release housing	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Black	Painted	Painted	Painted	Painted	Painted
Quick release nut	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	Black	Black	Black	Black	Black	Black
Compatible spoke protector		CP-WH24 CP-FH53 (34T)	-	CP-WH24 CP-FH53 (34T)	-	CP-FH06 CP-FH31 CP-FH46 CP-WH24	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	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 (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		1105	818	1102	820	1069	820
Note		* The adapter is needed to use 10-speed cassette		* The adapter is needed to use 10-speed cassette			

Wheel (Rim Brake)

Series		SHIMANO
Model no.		WH-R501-CL-R
Model name		WH-R501-CL
Specification		R
Color	1 Hub shell	Black
	1 Quick release	Black
	2 Hub shell	Silver
	2 Quick release	Black
Front/Rear		Rear
Brake type		Rim brake
Rear speeds		11/10/9/8/7
O.L.D. (mm)		130
Wheel size		622 x 15C (700C)
Tire	Type	Clincher
	Recommended size	23-622 - 32-622
Rim	Height (mm)	24
	Internal width (mm)	15
	External width (mm)	20.8
	Rim joint	Sleeve
	Brazed reinforcement	-
	OFFSET RIM	-
	Requires rim tape	✓
Spokes	Number	24
	Straight pull	-
	Bladed	-
	Butted	-
	Diameter (mm)	2
Axle fixing method		Quick release
Quick release skewer length (mm)	133	-
	163	✓
	168	✓
Thru axle (length x inner diameter ; mm)	100 x 12	-
	142 x 12	-
Spline type	MICRO SPLINE	-
	HG spline L2 (ROAD 12-speed dedicated)	-
	HG spline L (ROAD 12/11-speed)	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓
	HG spline S (7-speed)	-
Engagement type		Pawl ratchet
Bearing	Stainless ball	-
	Cup	Polish
	Cone	CBN
Disc mount	CENTER LOCK	-
	CENTER LOCK mount cover option	-
	140 mm disc brake rotor compatible	-
OPTBAL (2:1)		-
D2 rim		-
Digital adjustment system		-
Seal	Hub	Contact
	FREEHUB body	Contact
Internal grease sleeve		-
Rim	Material	Aluminum
	Finish	Anodized
Spoke	Material	Stainless steel
	Finish	Black
Nipple	Material	Brass
	Finish	Silver
FREEHUB body	Material	Steel
	Finish	-
Hub shell	Material	Aluminum
	Finish	Anodized
Axle	Material	Steel
	Finish	-
Quick release lever	Material	Aluminum
	Finish	Painted
Quick release housing	Material	Steel
	Finish	Painted
Quick release nut	Material	Resin
	Finish	Black
Compatible spoke protector		CP-FH06 CP-FH31 CP-FH46 CP-WH24
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		1069
Note		

Head Parts

Series		DURA-ACE
Model no.		HP-7410
Size		JIS, ENGLISH
Thread		BC 1 x 24 T.P.I.
Sealed cartridge bearings		✓
Stack height (mm)		37.6
Lock nut	Material	Aluminum
	Finish	Anodized
Upper / Lower cups	Material	Aluminum
	Finish	Anodized
Upper stem cone	Material	Aluminum
	Finish	Anodized
Stem cone	Material	Aluminum
	Finish	Anodized
Average weight (g)		101
Note		

Shift/Brake Lever (Hydraulic Disc Brake)

Series			DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	SHIMANO 105	SHIMANO 105
Model no.			ST-R9270-R	ST-R9270-L	ST-R8170-R	ST-R8170-L	ST-R7170-R	ST-R7170-L
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Remote switch			✓	✓	✓	✓	-	-
Brake lever	Brake hose (kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-J-SSR, SM-BH90-JK-SSR	SM-BH90-J-SSR, SM-BH90-JK-SSR
	Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
	Recommended brake caliper		BR-R9270	BR-R9270	BR-R8170	BR-R8170	BR-R7170	BR-R7170
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓	✓	✓	✓	✓
	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
	Funnel bleeding		✓	✓	✓	✓	✓	✓
	Free stroke adjust		✓	✓	✓	✓	✓	✓
	SERVO WAVE		✓	✓	✓	✓	-	-
	Material		Carbon	Carbon	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Anodized	Anodized
Bracket	Material		CFRP	CFRP	CFRP	CFRP	GFRP	GFRP
	Finish		-	-	-	-	-	-
Electric button	Material		CFRP	CFRP	CFRP	CFRP	GFRP	GFRP
	Finish		Painted	Painted	Painted	Painted	-	-
Di2 connectivity wired	Di2 shifting		✓	✓	✓	✓	-	-
Di2 connectivity wireless	Di2 shifting		✓	✓	✓	✓	✓	✓
Master unit			-	-	-	-	-	-
Firmware update by E-TUBE PROJECT			✓	✓	✓	✓	✓	✓
SD50 port (pcs)			0	0	0	0	0	0
SD300 port (pcs)			1	1	1	1	1	1
SD50 connector (pcs)			0	0	0	0	0	0
SD300 connector (pcs)			0	0	0	0	0	0
Port for SD50 remote sprinter shifter (pcs)			0	0	0	0	0	0
Port for SD300 satellite shifter (pcs)			1	1	1	1	0	0
Battery			CR1632	CR1632	CR1632	CR1632	CR1632 x 2	CR1632 x 2
Average weight (g)			350 (/pair)	350 (/pair)	391 (/pair)	391 (/pair)	423 (/pair)	423 (/pair)
Note								

Shift/Brake Lever (Hydraulic Disc Brake)

Series			DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA
Model no.			ST-R9170-R	ST-R9170-L	ST-R9180-R	ST-R9180-L	ST-R8070-R	ST-R8070-L
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Remote switch			✓	✓	-	-	✓	✓
Brake lever	Brake hose (kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SS	SM-BH90-JK-SS	SM-BH90-JK-SSR	SM-BH90-JK-SSR
	Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
	Recommended brake caliper		BR-R9170	BR-R9170	BR-R9170	BR-R9170	BR-R8070	BR-R8070
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓	✓	✓	✓	✓
	Clamp band (mm)		23.8-24.2	23.8-24.2	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	23.8-24.2	23.8-24.2
	Funnel bleeding		✓	✓	✓	✓	✓	✓
	Free stroke adjust		✓	✓	-	-	✓	✓
	SERVO WAVE		-	-	-	-	-	-
	Material		Carbon	Carbon	Carbon	Carbon	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Bracket	Material		CFRP	CFRP	Aluminum	Aluminum	CFRP	CFRP
	Finish		-	-	-	-	-	-
Electric button	Material		-	-	CFRP	CFRP	-	-
	Finish		-	-	-	-	-	-
Di2 connectivity wired	Di2 shifting		✓	✓	✓	✓	✓	✓
Di2 connectivity wireless	Di2 shifting		-	-	-	-	-	-
Master unit			-	-	-	-	-	-
Firmware update by E-TUBE PROJECT			✓	✓	✓	✓	✓	✓
SD50 port (pcs)			2	2	1	1	2	2
SD300 port (pcs)			0	0	0	0	0	0
SD50 connector (pcs)			0	0	0	0	0	0
SD300 connector (pcs)			0	0	0	0	0	0
Port for SD50 remote sprinter shifter (pcs)			0	0	0	0	0	0
Port for SD300 satellite shifter (pcs)			0	0	0	0	0	0
Battery			-	-	-	-	-	-
Average weight (g)			160	160	99	99	180	180
Note								

Shift/Brake Lever

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	DURA-ACE	DURA-ACE
Model no.		ST-R9250-R	ST-R9250-L	ST-R8150-R	ST-R8150-L	ST-R9150-R	ST-R9150-L
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Remote switch		✓	✓	✓	✓	✓	✓
Brake lever	Reach adjust	✓	✓	✓	✓	✓	✓
	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	✓	✓	✓	✓	✓	✓
	Material	CFRP	CFRP	Aluminum	Aluminum	CFRP	CFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Bracket	Material	CFRP	CFRP	GFRP	GFRP	CFRP	CFRP
	Finish	-	-	-	-	-	-
Electric button	Material	CFRP	CFRP	GFRP	GFRP	CFRP	CFRP
	Finish	Painted	Painted	-	-	-	-
Master unit		-	-	-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
Di2 connectivity wired	Di2 shifting	✓	✓	✓	✓	✓	✓
Di2 connectivity wireless	Di2 shifting	-	-	-	-	-	-
SD50 port (pcs)		0	0	0	0	2	2
SD300 port (pcs)		2	2	2	2	0	0
SD50 connector (pcs)		0	0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0	0
Port for SD50 remote sprinter shifter (pcs)		0	0	0	0	1	1
Port for SD300 satellite shifter (pcs)		1	1	1	1	0	0
Battery		-	-	-	-	-	-
Average weight (g)		230 (/pair)	230 (/pair)	295 (/pair)	295 (/pair)	230 (/pair)	230 (/pair)
Note						-	-

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		ST-R9160-R	ST-R9160-L	ST-R8050-R	ST-R8050-L	ST-R8060-R	ST-R8060-L
Shifter type		TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER
Remote switch		-	-	✓	✓	-	-
Brake lever	Reach adjust	✓	✓	✓	✓	✓	✓
	Clamp band (mm)	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	23.8-24.2	23.8-24.2	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5
	SLR-EV	✓	✓	✓	✓	✓	✓
	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Anodized	Anodized
Bracket	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Electric button	Material	CFRP	CFRP	GFRP	GFRP	CFRP	CFRP
	Finish	-	-	-	-	-	-
Master unit		-	-	-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
Di2 connectivity wired	Di2 shifting	✓	✓	✓	✓	✓	✓
Di2 connectivity wireless	Di2 shifting	-	-	-	-	-	-
SD50 port (pcs)		1	1	2	2	1	1
SD300 port (pcs)		0	0	0	0	0	0
SD50 connector (pcs)		0	0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0	0
Port for SD50 remote sprinter shifter (pcs)		0	0	1	1	0	0
Port for SD300 satellite shifter (pcs)		0	0	0	0	0	0
Battery		-	-	-	-	-	-
Average weight (g)		127 (/pair)	127 (/pair)	295 (/pair)	295 (/pair)	138 (/pair)	138 (/pair)
Note		-	-	-	-	-	-

Shift/Brake Lever

Series		ULTEGRA	ULTEGRA
Model no.		ST-6870	ST-6871
Shifter type		DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER
Remote switch		-	-
Brake lever	Reach adjust	✓	✓
	Clamp band (mm)	23.8-24.2	INNER DIA. 19.0 - 22.5
	SLR-EV	✓	✓
	Material	Aluminum	Aluminum
	Finish	Painted	Anodized
Bracket	Material	GFRP	CFRP
	Finish	-	-
Electric button	Material	GFRP	GFRP
	Finish	-	-
Master unit		-	-
Firmware update by E-TUBE PROJECT		✓	✓
Di2 connectivity wired	Di2 shifting	✓	✓
Di2 connectivity wireless	Di2 shifting	-	-
SD50 port (pcs)		2 /each, total 4	0
SD300 port (pcs)		0	0
SD50 connector (pcs)		0	1 /each, total 2
SD300 connector (pcs)		0	0
Port for SD50 remote sprinter shifter (pcs)		1 /each, total 2	0
Port for SD300 satellite shifter (pcs)		0	0
Battery		-	-
Average weight (g)		303.2 (/pair)	148 (/pair)
Note		-	-

Shift Switch

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	DURA-ACE	SHIMANO
Model no.	SW-RS801-E	SW-RS801-S	SW-RS801-T	SW-R9150	SW-R9160	SW-R671
Switch type	Extra long cable, for Remote extension bar switch	Short cable for remote sprinter switch	Long cable for top bar switch	Option SW (pair)	Bar-end SW for TT (pair)	Remote Triathlon shifter Current 2 button design, pair
Position	Extension bar	On road Bar	Top handle	On road Bar	DH Bar	DH Bar
Compatible electric wire	-	-	-	EW-SD50	EW-SD50	EW-SD50
Master unit	-	-	-	-	-	-
Firmware update by E-TUBE PROJECT	-	-	-	✓	✓	✓
SD50 port (pcs)	0	0	0	0	2	0
SD300 port (pcs)	0	0	0	0	0	0
SD50 connector (pcs)	0	0	0	2	0	2
SD300 connector (pcs)	0	0	0	0	0	0
Connector for SD50 remote sprinter shifter (pcs)	0	0	0	0	0	0
Connector for SD300 satellite shifter (pcs)	1/each, total 2	1/each, total 2	1/each, total 2	0	0	0
Port for SD50 remote sprinter shifter (pcs)	0	0	0	0	0	0
Port for SD300 satellite shifter (pcs)	0	0	0	0	0	0
Wireless shifting	-	-	-	-	-	-
Average weight (g)	16.5 (/pair)	6.4 (/pair)	11.8 (/pair)	12 (/pair)	40 (/pair)	100 (/pair)
Note	2 pcs switch in a spec model	2 pcs switch in a spec model	2 pcs switch in a spec model			

Series	SHIMANO	SHIMANO
Model no.	SW-R610	SW-R600
Switch type	Remote sprinter shifter (pair)	Remote satellite shifter (climbing shifter)
Position	Anywhere	Anywhere
Compatible electric wire	-	EW-SD50
Master unit	-	-
Firmware update by E-TUBE PROJECT	-	✓
SD50 port (pcs)	0	0
SD300 port (pcs)	0	0
SD50 connector (pcs)	0	1
SD300 connector (pcs)	0	0
Connector for SD50 remote sprinter shifter (pcs)	2	0
Connector for SD300 satellite shifter (pcs)	0	0
Port for SD50 remote sprinter shifter (pcs)	0	0
Port for SD300 satellite shifter (pcs)	0	0
Wireless shifting	-	-
Average weight (g)	5.8 (/pair)	19 (/pc)
Note		

Rear Derailleur

Series			DURA-ACE	ULTEGRA	SHIMANO 105	DURA-ACE	ULTEGRA	ULTEGRA
Model no.			RD-R9250	RD-R8150	RD-R7150	RD-R9150	RD-R8050-SS	RD-R8050-GS
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			12	12	12	11	11	11
RD construction	SHIMANO SHADOW RD		✓	✓	✓	✓	✓	✓
	SHIMANO SHADOW RD+		-	-	-	-	-	-
	Double servo		-	-	-	-	-	-
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	-	-	-	-	-	-
		Direct mount	-	-	-	-	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
		Direct mount	✓	✓	✓	✓	✓	✓
	UDH standard		✓	✓	✓	-	-	-
Max. front difference			16T	16T	16T	16T	16T	16T
Total capacity			37T	39T	41T	33T	33T	37T
Low sprocket	Max.		34T	34T	36T	30T	30T	34T
	Min.		30T	30T	34T	25T	25T	28T
Top sprocket	Max.		11T	11T	11T	14T	14T	12T
	Min.		11T	11T	11T	11T	11T	11T
Fluoric coated link bushings			4	4	4	4	4	4
Pulley	Guide pulley bearing		✓	✓	-	✓	✓	✓
	Tension pulley bearing		✓	✓	-	✓	✓	✓
	Teeth		11T	11T	11T	11T	11T	11T
	Screws material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓	✓	✓	✓	✓
Bracket	Material		Aluminum	Aluminum	Steel	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Painted	Plated	Anodized	Anodized	Anodized
B-axle	Hollow axle		✓	✓	✓	✓	✓	✓
	Material		Aluminum	Stainless steel	Stainless steel	Aluminum	Stainless steel	Stainless steel
	Finish		Anodized	Painted	-	Anodized	-	-
B-axle 2	Hollow axle		✓	✓	✓	✓	✓	✓
	Material		Aluminum	Aluminum	Stainless steel	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	-	Anodized	Anodized	Anodized
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material		Aluminum	Steel	Steel	Aluminum	Steel	Steel
	Finish		Plated	Passivation	Plated	Plated	Passivation	Passivation
Plate body	Material		CFRP	GFRP	GFRP	CFRP	GFRP	GFRP
	Finish		Painted	Painted	-	Painted	Painted	Painted
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Painted	Painted	Anodized	Painted	Painted
Inner link	Material		CFRP	GFRP	Steel	CFRP	GFRP	GFRP
	Finish		-	-	Painted	Painted	-	-
Outer plate	Material		Carbon	Aluminum	Aluminum	Carbon	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Carbon	Aluminum	Aluminum	Carbon	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Stroke adjusting screw	Material		Aluminum	Steel	Steel	Aluminum	Steel	Steel
	Finish		Anodized	Plated	Plated	Anodized	Plated	Plated
Di2 connectivity wired	Di2 shifting		✓	✓	✓	✓	✓	✓
Di2 connectivity wireless	Di2 shifting		✓	✓	✓	-	-	-
	Bluetooth® LE	Cycling power	-	-	-	-	-	-
	ANT+	Bicycle power	-	-	-	-	-	-
	Bluetooth® LE custom (*1)	Adjust mode information	✓	✓	✓	-	-	-
		Di2 battery level	✓	✓	✓	-	-	-
		Gear position	✓	✓	✓	-	-	-
		SHIMANO E-BIKE SYSTEMS data items (*3)	✓	✓	✓	-	-	-
		Compatible with E-TUBE RIDE	✓	✓	✓	-	-	-
		Compatible with E-TUBE PROJECT	✓	✓	✓	-	-	-
	ANT private (*2)	Adjust mode information	✓	✓	✓	-	-	-
		Di2 battery level	✓	✓	✓	-	-	-
		Gear position	✓	✓	✓	-	-	-
		SHIMANO E-BIKE SYSTEMS data items (*3)	✓	✓	✓	-	-	-
Firmware update by E-TUBE PROJECT			✓	✓	✓	✓	✓	✓
SD50 port (pcs)			0	0	0	1	1	1
SD300 port (pcs)			1	1	1	0	0	0
SD50 connector (pcs)			0	0	0	0	0	0
SD300 connector (pcs)			0	0	0	0	0	0
LED for system status			✓	✓	✓	-	-	-
Charging port			✓	✓	✓	-	-	-
Charging cable			EW-EC300	EW-EC300	EW-EC300	-	-	-
Average weight (g)			215	262	302	197	240	247
Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile. *3 Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.			w/o Bracket spec. available	w/o Bracket spec. available	w/o Bracket spec. available	w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available

Rear Derailleur

Series			ULTEGRA	ULTEGRA	ULTEGRA RX
Model no.			RD-6870-SS	RD-6870-GS	RD-RX805-GS
Color	1		Series color	Series color	Series color
	2		-	-	-
Rear speeds			11	11	11
RD construction	SHIMANO SHADOW RD		-	-	-
	SHIMANO SHADOW RD+		-	-	✓
	Double servo		✓	✓	-
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	-	-	-
		Direct mount	-	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	✓	✓	✓
		Direct mount	-	-	✓
	UDH standard		-	-	-
Max. front difference			16T	16T	16T
Total capacity			33T	37T	39T
Low sprocket	Max.		28T	32T	34T
	Min.		23T	28T	28T
Top sprocket	Max.		14T	12T	11T
	Min.		11T	11T	11T
Fluoric coated link bushings			4	4	4
Pulley	Guide pulley bearing		✓	✓	✓
	Tension pulley bearing		✓	✓	✓
	Teeth		11T	11T	11T
	Screws material		Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓	✓
Bracket	Material		Aluminum	Aluminum	Aluminum
	Finish		✓	✓	Anodized
B-axle	Hollow axle		-	-	✓
	Material		Stainless steel	Stainless steel	Stainless steel
	Finish		Passivation	Passivation	-
B-axle 2	Hollow axle		-	-	✓
	Material		-	-	Aluminum
	Finish		-	-	Anodized
Bracket body	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted
P-axle	Material		Aluminum	Aluminum	Steel
	Finish		Plated	Plated	-
Plate body	Material		CFRP	CFRP	Aluminum
	Finish		Painted	Painted	Painted
Outer link	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted
Inner link	Material		Steel	Steel	GFRP
	Finish		Painted	Painted	-
Outer plate	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted
Stroke adjusting screw	Material		Stainless steel	Stainless steel	Steel
	Finish		Black coated	Black coated	Plated
Di2 connectivity wired	Di2 shifting		✓	✓	✓
Di2 connectivity wireless	Di2 shifting		-	-	-
	Bluetooth® LE	Cycling power	-	-	-
	ANT+	Bicycle power	-	-	-
	Bluetooth® LE custom (*1)	Adjust mode information	-	-	-
		Di2 battery level	-	-	-
		Gear position	-	-	-
		SHIMANO E-BIKE SYSTEMS data items (*3)	-	-	-
		Compatible with E-TUBE RIDE	-	-	-
		Compatible with E-TUBE PROJECT	-	-	-
	ANT private (*2)	Adjust mode information	-	-	-
		Di2 battery level	-	-	-
		Gear position	-	-	-
		SHIMANO E-BIKE SYSTEMS data items (*3)	-	-	-
Firmware update by E-TUBE PROJECT			✓	✓	✓
SD50 port (pcs)			1	1	1
SD300 port (pcs)			0	0	0
SD50 connector (pcs)			0	0	0
SD300 connector (pcs)			0	0	0
LED for system status			-	-	-
Charging port			-	-	-
Charging cable			-	-	-
Average weight (g)			257	268	280
Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile. *3 Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.					* w/o Bracket spec available

Front Derailleur

Series		DURA-ACE	ULTEGRA	SHIMANO 105	DURA-ACE	ULTEGRA	ULTEGRA
Model no.		FD-R9250	FD-R8150	FD-R7150	FD-R9150	FD-R8050	FD-6870-F
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Front speeds		2	2	2	2	2	2
Rear speeds		12	12	12	11	11	11
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Action	TOP SWING	-	-	-	-	-	-
	Down swing	✓	✓	✓	✓	✓	✓
Mount	Clamp band1	-	-	-	-	-	-
	Clamp band2	-	-	-	-	-	-
	Clamp band3	-	-	-	-	-	-
	Brazed-on	✓	✓	✓	✓	✓	✓
Chain line (mm)		44.5	44.5	44.5	43.5	43.5	43.5
Chainstay angle (deg.)		61-66	61-66	61-66	61-66	61-66	61-66
Top gear teeth		46-54T	46-52T	50-52T	50T-55T	46T-53T	46T-53T
Total capacity		16T	16T	16T	16T	16T, 17T *	16T
Link bushings		4	4	2	4	2	4
Front clamp band	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Anodized	Painted	Painted
Outer link	Material	Aluminum	Aluminum	GFRP	CFRP	CFRP	CFRP
	Finish	Anodized	Painted	-	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Titanium	Steel	Steel
	Finish	Plated	Painted	Plated	-	Plated	Plated
Chain guide	Material	Aluminum	Steel	Steel	Aluminum	Steel	Steel
	Finish	Plated	Plated	Chrome plated	Nickel plated	Chrome plated	Chrome plated
Master unit		-	-	-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
SD50 port (pcs)		0	0	0	1	1	1
SD300 port (pcs)		1	1	1	0	0	0
SD50 connector (pcs)		0	0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0	0
Average weight (g) (band type: L size, direct type w/ screw)		96	110	142	104	132	138.5
Note						* Use with E-BIKE	

Front Derailleur (Adapter)

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

LIFESTYLE Active

LIFESTYLE Active

		Page	
	Shifter	176	SL
	Brake Lever (Hydraulic Disc Brake, Flat Handlebar type)	187	BL
	Brake Lever (Hydraulic Disc Brake, Drop Handlebar type)	188	BL
	Brake Lever (Drop Handlebar type)	189	BL
	Shift/Brake Lever (Hydraulic Disc Brake, Flat Handlebar type)	190	ST
	Shift/Brake Lever (Flat Handlebar type)	192	ST
	Shift/Brake Lever (Hydraulic Disc Brake, Drop Handlebar type)	195	ST
	Shift/Brake Lever (Drop Handlebar type)	196	ST
	Rear Derailleur	197	RD
	Front Derailleur	202	FD
	Brake (Hydraulic Disc Brake)	210	BR
	Brake (Mechanical Disc Brake)	211	BL
	Crankset	212	FC
	Bottom Bracket (HOLLOWTECH II)	216	BB
	Bottom Bracket	217	BB
	Cassette	219	CS
	Multiple Freewheel	223	MF
	Front Hub (Disc Brake)	224	HB
	Front Hub (Rim Brake)	226	HB
	FREEHUB (Disc Brake)	227	FH
	FREEHUB (Rim Brake)	230	FH
<Di2 spec.>	Shift Switch	232	SW
	Rear Derailleur	233	RD

Shifter

Series			CUES	CUES	CUES	CUES	CUES	CUES
Model no.			SL-U8000-11R	SL-U8000-11IR	SL-U8000-L	SL-U8000-IL	SL-U6000-11R	SL-U6050-11R
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
	3		-	-	-	-	-	-
Shifter type			RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE
Front speeds			-	-	2	2	-	-
Rear speeds			11	11	-	-	11	11
Compatible rear derailleur type			LINKGLIDE system 11-speed	LINKGLIDE system 11-speed	-	-	LINKGLIDE system 11-speed	LINKGLIDE system 11-speed
Mount type	Clamp band		✓	-	✓	-	✓	✓
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	✓	-	✓	-	-
	I-SPEC EV		-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)			-	✓	-	✓	-	-
Shift lever cable adjust			✓	✓	✓	✓	✓	✓
Front 2/3 mode converter			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			2	2	-	-	2	2
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		✓	✓	✓	✓	-	-
	2-WAY RELEASE		✓	✓	✓	✓	✓	-
	Adjustable lever		-	-	✓	✓	-	-
OPTICAL GEAR DISPLAY	With		✓	✓	✓	✓	✓	✓
	With (removable)		-	-	-	-	-	-
	Without		✓	✓	✓	✓	✓	✓
Multi-bearing construction			2	2	2	2	-	-
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		painted	painted	painted	painted	painted	painted
Clamp screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Black	Black	Black	Black	Black	Black
Main lever body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Steel+GFRP	Steel+GFRP
	Finish		painted	painted	painted	painted	-	-
Release lever body	Material		Steel+GFRP	Steel+GFRP	-	-	Steel+Resin	Steel+Resin
	Finish		-	-	-	-	-	-
Base cover	Material		GFRP	GFRP	GFRP	GFRP	Resin	Resin
	Finish		painted	painted	painted	painted	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	-	-
		Steel	-	-	-	-	✓	✓
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			120	112	-	-	-	-
Note								Short reach

Shifter

Series			CUES	CUES	CUES	CUES	CUES	CUES
Model no.			SL-U6000-10R	SL-U6000-L	SL-U6050-10R	SL-U4000-9R	SL-U4010-9R	SL-U4050-9R
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
	3		-	-	-	-	-	-
Shifter type			RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	RAPIDFIRE	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE
Front speeds			-	2	-	-	-	-
Rear speeds			10	-	10	9	9	9
Compatible rear derailleur type			LINKGLIDE system 10-speed	-	LINKGLIDE system 10-speed	LINKGLIDE system 9-speed	LINKGLIDE system 9-speed	LINKGLIDE system 9-speed
Mount type	Clamp band		✓	✓	✓	✓	✓	✓
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	-	-	-	-
	I-SPEC EV		-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)			-	-	-	-	-	-
Shift lever cable adjust			✓	✓	✓	✓	✓	✓
Front 2/3 mode converter			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			2	-	2	2	2	2
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		✓	✓	-	-	✓	-
	Adjustable lever		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		✓	✓	✓	✓	✓	✓
	With (removable)		-	-	-	-	-	-
	Without		✓	✓	✓	-	-	-
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		painted	painted	painted	painted	painted	painted
Clamp screw	Material		Stainless steel	Stainless steel	Stainless steel	steel	Steel	steel
	Finish		Black	Black	Black	plated	plated	plated
Main lever body	Material		Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-	-	-	-
Release lever body	Material		Steel+Resin	-	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
	Finish		-	-	-	-	-	-
Base cover	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
		Steel	✓	✓	✓	✓	✓	✓
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			-	-	-	-	-	-
Note					Short reach			Short reach

Shifter

Series			CUES	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	ACERA	ACERA
Model no.			SL-U4000-L	SL-M3100-R	SL-M3100-L	SL-M3100-2L	SL-M3000-R	SL-M3010-L
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
	3		-	-	-	-	-	-
Shifter type			RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds			2	-	3	2	-	2
Rear speeds			-	9	-	-	9	-
Compatible rear derailleur type			-	MTB 9-speed	-	-	MTB 9-speed	-
Mount type	Clamp band		✓	✓	✓	✓	✓	✓
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	-	-	-	-
	I-SPEC EV		-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)			-	-	-	-	-	-
Shift lever cable adjust			✓	✓	✓	✓	✓	✓
Front 2/3 mode converter			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			-	3	-	-	3	-
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		-	-	-	✓	-	-
	Adjustable lever		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		✓	✓	✓	-	✓	✓
	With (removable)		-	-	-	-	-	-
	Without		-	-	-	✓	-	-
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		steel	Steel	Steel	Steel	Stainless steel	Stainless steel
	Finish		plated	Plated	Plated	Plated	-	-
Main lever body	Material		Steel+GFRP	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
	Finish		-	-	-	-	-	-
Release lever body	Material		-	Steel+Resin	-	Steel+Resin	Steel+Resin	Steel+Resin
	Finish		-	-	-	-	-	-
Base cover	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	✓	✓	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	✓ *	-
		Steel	✓	✓	✓	✓	✓	✓
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			-	-	-	-	-	-
Note							* Option	

Shifter

Series			ACERA	ALTUS	ALTUS	ALTUS	SHIMANO	SHIMANO
Model no.			SL-M360-R	SL-M2010-9R	SL-M2010-L	SL-M2010-2L	SL-M315-8R	SL-M315-7R
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			-	-	3	2	-	-
Rear speeds			8	9	-	-	8	7
Compatible rear derailleur type			MTB 8-speed	MTB 9-speed	-	-	MTB 8-speed	MTB 7-speed
Mount type	Clamp band		✓	✓	✓	✓	✓	✓
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	-	-	-	-
	I-SPEC EV		-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)			-	-	-	-	-	-
Shift lever cable adjust			✓	✓	✓	✓	✓	✓
Front 2/3 mode converter			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			3	3	-	-	3	3
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		-	-	-	-	-	-
	Adjustable lever		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		✓	✓	✓	✓	✓	✓
	With (removable)		-	-	-	-	-	-
	Without		-	-	-	-	-	-
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	Plated	Plated	Plated	Plated	Plated
Main lever body	Material		Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
	Finish		-	-	-	-	-	-
Release lever body	Material		Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
	Finish		-	-	-	-	-	-
Base cover	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	✓	✓	✓	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	✓	✓
		Steel	✓	✓	✓	✓	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			-	-	-	-	-	-
Note								

Shifter

Series			SHIMANO	SHIMANO	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.			SL-M315-L	SL-M315-2L	SL-FT55-7R	SL-TX50-7R	SL-TX50-6R	SL-TX50-L
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
	3		-	-	-	-	-	-
Shifter type			RAPIDFIRE PLUS	RAPIDFIRE PLUS	Thumb shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus
Front speeds			3	2	-	-	-	3
Rear speeds			-	-	7	7	6	-
Compatible rear derailleur type			-	-	MTB 7-speed	MTB 7-speed	MTB 6-speed	-
Mount type	Clamp band		✓	✓	✓	✓	✓	✓
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	-	-	-	-
	I-SPEC EV		-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)			-	-	-	-	-	-
Shift lever cable adjust			✓	✓	-	-	-	✓
Front 2/3 mode converter			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			-	-	6	6	5	-
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		-	-	-	-	-	-
	Adjustable lever		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		✓	✓	✓	✓	✓	✓
	With (removable)		-	-	-	-	-	-
	Without		-	-	-	-	-	-
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	-	-	-	-
Main lever body	Material		Steel+Resin	Steel+Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Release lever body	Material		Steel+Resin	Steel+Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Base cover	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	-	-	-	-
		Steel	-	-	✓	✓	✓	✓
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weight (g)			-	-	-	-	-	-
Note								

Shifter

Series			TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.			SL-TX50-LN	SL-TX30-7R	SL-TX30-6R	SL-TX30-LN	SL-RS45-6R	SL-RS36-7R
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	REVOSHIFT	REVOSHIFT
Front speeds			3 (friction)	-	-	3 (friction)	-	-
Rear speeds			-	7	6	-	6	7
Compatible rear derailleur type			-	MTB 7-speed	MTB 6-speed	-	MTB 6-speed	MTB 7-speed
Mount type	Clamp band		✓	✓	✓	✓	✓	✓
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	-	-	-	-
	I-SPEC EV		-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)			-	-	-	-	-	-
Shift lever cable adjust			✓	-	-	✓	✓	-
Front 2/3 mode converter			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			-	6	5	-	5	6
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		-	-	-	-	-	-
	Adjustable lever		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		✓	✓	✓	✓	✓	✓
	With (removable)		-	-	-	-	-	-
	Without		-	-	-	-	-	-
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	-	-	-	-	-
Main lever body	Material		Resin	Resin	Resin	Resin	-	-
	Finish		-	-	-	-	-	-
Release lever body	Material		Resin	Resin	Resin	Resin	-	-
	Finish		-	-	-	-	-	-
Base cover	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
		Steel	✓	✓	✓	✓	✓	✓
Recommended shift lever outer casing			OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weight (g)			-	-	-	-	-	-
Note								w/ CI-DECK spec is available as option

Shifter

Series			TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	SHIMANO
Model no.			SL-RS36-6R	SL-RS35-7R	SL-RS35-6R	SL-RS35-L	SL-RS35-LN	SL-RV400-8R
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 (friction)	-
Rear speeds			6	7	6	-	-	8
Compatible rear derailleur type			MTB 6-speed	MTB 7-speed	MTB 6-speed	-	-	MTB 8-speed
Mount type	Clamp band		✓	✓	✓	✓	✓	✓
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	-	-	-	-
	I-SPEC EV		-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)			-	-	-	-	-	-
Shift lever cable adjust			-	-	-	✓	✓	-
Front 2/3 mode converter			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			5	6	5	-	-	7
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		-	-	-	-	-	-
	Adjustable lever		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		✓	✓	✓	✓	✓	✓
	With (removable)		-	-	-	-	-	-
	Without		-	-	-	-	-	-
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Steel	Resin	Resin	Resin	Resin	Resin
	Finish		Painted	Resin	Resin	Resin	Resin	Resin
Clamp screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	-	-	-	-	-
Main lever body	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Release lever body	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Base cover	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
		Steel	✓	✓	✓	✓	✓	✓
Recommended shift lever outer casing			OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weight (g)			-	-	-	-	-	-
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			

Shifter

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			SL-RV400-7R	SL-RV400-6R	SL-RV400-L	SL-RV400-LN	SL-RV300-7R	SL-RV300-6R
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 (friction)	-	-
Rear speeds			7	6	-	-	7	6
Compatible rear derailleur type			MTB 7-speed	MTB 6-speed	-	-	MTB 7-speed	MTB 6-speed
Mount type	Clamp band		✓	✓	✓	✓	✓	✓
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	-	-	-	-
	I-SPEC EV		-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)			-	-	-	-	-	-
Shift lever cable adjust			-	-	✓	-	-	-
Front 2/3 mode converter			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			6	5	-	-	6	5
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		-	-	-	-	-	-
	Adjustable lever		-	-	-	-		
OPTICAL GEAR DISPLAY	With		✓	✓	✓	✓	✓	✓
	With (removable)		-	-	-	-	-	-
	Without		-	-	-	-	-	-
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		Resin	Resin	Resin	Resin	Resin	Resin
Clamp screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	-	-	-	-	-
Main lever body	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Release lever body	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Base cover	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
		Steel	✓	✓	✓	✓	✓	✓
Recommended shift lever outer casing			OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weight (g)			-	-	-	-	-	-
Note								

Shifter

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			SL-RV300-L	SL-RV300-LN	SL-RV200-7R	SL-RV200-6R	SL-RV200-L	SL-RV200-LN
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 (friction)	-	-	3	3 (friction)
Rear speeds			-	-	7	6	-	-
Compatible rear derailleur type			-	-	MTB 7-speed	MTB 6-speed	-	-
Mount type	Clamp band		✓	✓	✓	✓	✓	✓
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	-	-	-	-
	I-SPEC EV		-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)			-	-	-	-	-	-
Shift lever cable adjust			-	-	-	-	✓	-
Front 2/3 mode converter			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			-	-	6	5	-	-
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		-	-	-	-	-	-
	Adjustable lever				-	-	-	-
OPTICAL GEAR DISPLAY	With		✓	✓	✓	✓	✓	-
	With (removable)		-	-	-	-	-	-
	Without		-	-	-	-	-	-
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		Resin	Resin	Resin	Resin	Resin	Resin
Clamp screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	-	-	-	-	-
Main lever body	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Release lever body	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Base cover	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
		Steel	✓	✓	✓	✓	✓	✓
Recommended shift lever outer casing			OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weight (g)			-	-	-	-	-	-
Note								

Shifter

Series			TOURNEY TZ	TOURNEY TZ	TOURNEY TZ	SHIMANO A050	SHIMANO A050	SHIMANO
Model no.			SL-TZ500-7R	SL-TZ500-6R	SL-TZ500-LN	SL-A050-7R	SL-A050-LN	SL-SY20A-7
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
	3		-	-	-	-	-	-
Shifter type			Thumb Shifter	Thumb Shifter	Thumb Shifter	Handle bar mount shifter	Handle bar mount shifter	Down tube mount shifter
Front speeds			-	-	3 (friction)	-	2 (friction)	2 (friction)
Rear speeds			7	6	-	7	-	7
Compatible rear derailleur type			MTB 7-speed	MTB 6-speed	-	ROAD 7-speed	-	ROAD 7-speed
Mount type	Clamp band		✓	✓	✓	✓	✓	-
	I-SPEC B		-	-	-	-	-	-
	I-SPEC II		-	-	-	-	-	-
	I-SPEC EV		-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)			-	-	-			
Shift lever cable adjust			-	-	-	-	-	-
Front 2/3 mode converter			-	-	-			
Max. multiple shifts (main lever/rear)			6	5	-	-	-	-
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		-	-	-	-	-	-
	Adjustable lever		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		✓ *	✓ *	✓ *	-	-	-
	With (removable)		-	-	-	-	-	-
	Without		-	-	-	✓	✓	✓
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Zinc plated	Zinc plated	Zinc plated
Clamp screw	Material		Steel	Steel	Steel	-	-	-
	Finish		Zinc plated	Zinc plated	Zinc plated	-	-	-
Main lever body	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Release lever body	Material		-	-	-	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Base cover	Material		Resin	Resin	Resin	-	-	-
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
		Steel	✓	✓	✓	✓	✓	✓
Recommended shift lever outer casing			OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weight (g)			-	-	-	-	-	-
Note			* Gear Position Indicator	* Gear Position Indicator	* Gear Position Indicator			Stem and brazed on, band types are available

Shifter

Series			SHIMANO
Model no.			SL-SY20A-6
Color	1		Series color
	2		-
	3		-
Shifter type			Down tube mount shifter
Front speeds			2 (friction)
Rear speeds			6
Compatible rear derailleur type			ROAD 6-speed
Mount type	Clamp band		-
	I-SPEC B		-
	I-SPEC II		-
	I-SPEC EV		-
Shift lever position adjust			-
Shift lever rotation adjust (non I-SPEC EV)			
Shift lever cable adjust			-
Front 2/3 mode converter			
Max. multiple shifts (main lever/rear)			-
Release function	MULTI RELEASE		-
	INSTANT RELEASE		-
	2-WAY RELEASE		-
	Adjustable lever		-
OPTICAL GEAR DISPLAY	With		-
	With (removable)		-
	Without		✓
Multi-bearing construction			-
Shift lever bracket	Material		Steel
	Finish		Zinc plated
Clamp screw	Material		-
	Finish		-
Main lever body	Material		Resin
	Finish		-
Release lever body	Material		Resin
	Finish		-
Base cover	Material		-
	Finish		-
Shift lever cable	Inner cable	Polymer-coated cable	-
		OPTISLICK	-
		SIL-TEC	-
		Stainless	-
		Steel	✓
Recommended shift lever outer casing			OT-SIS40
Average weight (g)			-
Note			Stem and brazed on, band types are available

Brake Lever (Hydraulic disc brake, Flat Handlebar type)

Series		CUES	SHIMANO
Model no.		BL-U8000	BL-UR405
Brake type		Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		3	3
Color	1	Series color	Black
	2	-	-
	3	-	-
Brake hose (kit)		SM-BH90	SM-BH59-JK-SS
Hose joint		Straight	Straight
Brake hose color (kit)	1	Black	Black
	2	-	-
J-Kit spec (for OEM)		✓	✓
SERVO WAVE		-	-
Reach adjust	Toolless	✓	-
	Tool	-	✓
Free stroke adjust		-	-
Compatible shifter mount	Clamp band	✓	✓
	I-SPEC B	-	-
	I-SPEC II	✓	-
Clamp band	Open clamp	✓	-
Recommended brake caliper		BR-U8000, BR-U8020	BR-MT410
Oil		SHIMANO mineral	SHIMANO mineral
Funnel bleeding		✓	✓
Clamp screw	Material	Stainless steel	Steel
	Finish	Painted	Plated
Brake lever	Material	Aluminum	Steel
	Finish	Anodized	Painted
Master cylinder	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Average weight (g)		110	-
Note			SHORT REACH

Brake Lever (Hydraulic disc brake, Drop Handlebar type)

Series		CUES
Model no.		BL-U6030-L
Brake type		Hydraulic disc brake
Lever size (finger)		-
Color	1	Series color
	2	-
Bracket cover color	1	Standard
	2	-
Brake hose (kit)		SM-BH59-JK-SSR
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
SERVO WAVE		-
Reach adjust	Toolless	-
	Tool	✓
Free stroke adjust		-
Clamp band	I-SPEC	-
	Open clamp	-
	Diameter (mm)	23.8-24.2
Recommended brake caliper		BR-U6030, BR-RS405
Oil		SHIMANO Mineral
Funnel bleeding		✓
Clamp band	Material	Steel
Bracket	Material	Engineering composite
	Finish	-
Brake lever	Material	Aluminum
	Finish	Painted
Master cylinder	Material	-
	Finish	-
Average weight (g)		-
Note		

Brake Lever (Drop Handlebar type)

Series		CUES	SHIMANO ESSA
Model no.		BL-U3030-L	BL-U2030-L
Color	1	Series color	Series color
	2	-	-
	3	-	-
Compatible brake type	V-BRAKE	-	-
	Mechanical disc brake (MTB)	-	-
	Mechanical disc brake (Road)	✓	✓
	Caliper (NEW SUPER SLR)	✓	✓
	Caliper (SUPER SLR)	-	-
	Cantilever brake	-	-
	Roller brake	-	-
Recommended POWER MODULATOR	V-BRAKE	-	-
	Mechanical disc brake (MTB)	-	-
Clamp band	Open clamp band	-	-
	I-SPEC	-	-
	Diameter (mm)	23.8-24.2	23.8-24.2
Internal bumper stop		-	-
Lever size (finger)		-	-
Brake cable type		-	-
Power adjuster		✓	✓
SERVO WAVE		-	-
Reach adjust		✓	✓
Cable adjust		-	-
Cable adjust type		-	-
Brake lever	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Brake bracket	Material	GFRP	GFRP
	Finish	-	-
Stainless clamp screw		-	-
Average weight (g)		-	-
Note			

Shift/Brake Lever (Hydraulic disc brake, Flat Handlebar type)

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			ST-EF515-8R	ST-EF515-7R	ST-EF515-2L	ST-EF515-L	ST-EF505-9R	ST-EF505-8R
Color	1		Black	Black	Black	Black	Black	Black
	2		-	-	-	-	-	-
Shifter type			EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
Shift lever	Front speeds		-	-	2	3	-	-
	Rear speeds		8	7	-	-	9	8
	2/3 mode converter		-	-	-	-	-	-
	Max. multiple shifts (main lever/rear)		3	3	-	-	3	3
	Compatible rear derailleur type		MTB 8-speed	MTB 7-speed	-	-	MTB 9-speed	MTB 8-speed
	I-SPEC compatible		-	-	-	-	-	-
	Shift lever position adjust		-	-	-	-	-	-
	Release function	MULTI RELEASE	-	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-	-
		2-WAY RELEASE	-	-	-	-	-	-
	Shift lever cable adjust		✓	✓	✓	✓	✓	✓
	OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-bearing construction		-	-	-	-	-	-
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
		Steel	✓	✓	✓	✓	✓	✓
Brake lever	Lever size (finger)		3	3	3	3	3	3
	Brake hose (kit)		SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
	Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
	J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
	Recommended brake caliper		BR-MT200	BR-MT200	BR-MT200	BR-MT200	BR-MT200	BR-MT200
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust	Toolless	-	-	-	-	-	-
		Tool	✓	✓	✓	✓	✓	✓
	Funnel bleeding		✓	✓	✓	✓	✓	✓
	Free stroke adjust		-	-	-	-	-	-
	SERVO WAVE		-	-	-	-	-	-
	Material		Steel	Steel	Steel	Steel	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp band	Open clamp		-	-	-	-	-	-
Shifter 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
Master cylinder	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
		Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
		Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Stainless clamp screw			-	-	-	-	-	-
Average weight (g)			-	-	-	-	-	-
Note								

Shift/Brake Lever (Hydraulic disc brake, Flat Handlebar type)

Series			SHIMANO	SHIMANO	SHIMANO
Model no.			ST-EF505-7R	ST-EF505-2L	ST-EF505-L
Color	1		Black	Black	Black
	2		-	-	-
Shifter type			EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
Shift lever	Front speeds		-	2	3
	Rear speeds		7	-	-
	2/3 mode converter		-	-	-
	Max. multiple shifts (main lever/rear)		3	-	-
	Compatible rear derailleur type		MTB 7-speed	-	-
	I-SPEC compatible		-	-	-
	Shift lever position adjust		-	-	-
	Release function	MULTI RELEASE	-	-	-
		INSTANT RELEASE	-	-	-
		2-WAY RELEASE	-	-	-
	Shift lever cable adjust		✓	✓	✓
	OPTICAL GEAR DISPLAY	With	✓	✓	✓
		With (removable)	-	-	-
		Without	-	-	-
	Multi-bearing construction		-	-	-
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41
	Inner cable	Polymer-coated cable	-	-	-
		OPTISLICK	✓	✓	✓
		SIL-TEC	-	-	-
		Stainless	-	-	-
		Steel	✓	✓	✓
Brake lever	Lever size (finger)		3	3	3
	Brake hose (kit)		SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
	Hose joint		Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black
		2	-	-	-
	J-Kit spec (for OEM)		✓	✓	✓
	Recommended brake caliper		BR-MT200	BR-MT200	BR-MT200
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust	Toolless	-	-	-
		Tool	✓	✓	✓
	Funnel bleeding		✓	✓	✓
	Free stroke adjust		-	-	-
	SERVO WAVE		-	-	-
	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted
Clamp band	Open clamp		-	-	-
Shifter lever body	Main		Steel & Resin	Steel & Resin	Steel & Resin
	Release		Steel & Resin	Steel & Resin	Steel & Resin
Master cylinder	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum
		Finish	Painted	Painted	Painted
	Clamp screw	Material	Steel	Steel	Steel
		Finish	Zinc plated	Zinc plated	Zinc plated
Stainless clamp screw			-	-	-
Average weight (g)			-	-	-
Note					

Shift/Brake Lever (Flat Handlebar type)

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO	TOURNEY TX	TOURNEY TX
Model no.			ST-M310-8R2	ST-M310-L2	ST-EF500-8R2A	ST-EF500-8R4A	ST-TX800-8R	ST-TX800-L
Color	1		Black	Black	Black	Black	Black	Black
	2		Silver	Silver	-	-	Silver	Silver
Shifter type			RAPIDFIRE PLUS	RAPIDFIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
Shift lever	Front speeds		-	3	-	-	-	3
	Rear speeds		8	-	8	8	8	-
	Compatible rear derailleur type		MTB 8-speed	-	MTB 8-speed	MTB 8-speed	MTB 8-speed	-
	Shift lever position adjust		-	-	-	-	-	-
	Shift lever cable adjust		✓	✓	-	-	-	✓
	2/3 mode converter		-	-	-	-	-	-
	Max. multiple shifts (main lever/rear)		3	-	3	3	3	-
	Release function	MULTI RELEASE	-	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-	-
		2-WAY RELEASE	-	-	-	-	-	-
	OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction		-	-	-	-	-	-
	Main lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Resin	Resin
		Finish	-	-	-	-	-	-
	Release lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Resin	Resin
		Finish	-	-	-	-	-	-
Shift lever cable	Outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40	OT-SIS40
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
		Steel	✓	✓	✓	✓	✓	✓
Brake lever	Compatible brake type	V-BRAKE	✓	✓	✓	✓ with switch*	✓	✓
		Mechanical disc brake (MTB)	✓	✓	✓	✓ with switch*	✓	✓
		Mechanical disc brake (Road)	-	-	-	-	-	-
		Caliper (SLR-EV)	-	-	-	-	-	-
		Caliper (NEW SUPER SLR)	-	-	-	-	-	-
		Caliper (SUPER SLR)	-	-	-	✓ with switch	-	-
		Cantilever brake	-	-	-	✓ with switch	-	-
		Roller brake	-	-	-	✓ with switch	-	-
	Recommended POWER MODULATOR	V-BRAKE	-	-	-	SM-PM40	-	-
		Mechanical disc brake (MTB)	-	-	-	SM-PM50	-	-
	Clamp band	Open clamp band	-	-	-	-	-	-
	Internal bumper stop		-	-	-	-	-	-
	Lever size (finger)		2	2	2	4	2	2
	Brake cable type		T-type	T-type	T-type	T-type	T-type	T-type
	Power adjuster		-	-	-	-	-	-
	SERVO WAVE		-	-	-	-	-	-
	Reach adjust		✓	✓	✓	✓	✓	✓
	Cable adjust		✓	✓	✓	✓	✓	✓
	Cable adjust type		Two hand	Two hand	Two hand	Two hand	Two hand	Two hand
	Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel/Resin	Steel/Resin
		Finish	Anodized	Anodized	Painted	Painted	-	-
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
		Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
		Finish	Zinc plated	Zinc plated	Plated	Plated	Zinc plated	Zinc plated
Average weight (g)			-	-	-	-	-	-
Note						* POWER MODULATOR must be used for front brake		

Shift/Brake Lever (Flat Handlebar type)

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			ST-EF500-7R2A	ST-EF500-7R4A	ST-EF500-L2A	ST-EF500-L4A	ST-EF500-2L2A	ST-EF500-2L4A
Color	1		Black	Black	Black	Black	Black	Black
	2		-	-	-	-	-	-
Shifter type			EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
Shift lever	Front speeds		-	-	3	3	2	2
	Rear speeds		7	7	-	-	-	-
	Compatible rear derailleur type		MTB 7-speed	MTB 7-speed	-	-	-	-
	Shift lever position adjust		-	-	-	-	-	-
	Shift lever cable adjust		-	-	✓	✓	✓	✓
	2/3 mode converter		-	-	-	-	-	-
	Max. multiple shifts (main lever/rear)		3	3	-	-	-	-
	Release function	MULTI RELEASE	-	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-	-
		2-WAY RELEASE	-	-	-	-	-	-
	OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction		-	-	-	-	-	-
	Main lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
		Finish	-	-	-	-	-	-
	Release lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
		Finish	-	-	-	-	-	-
Shift lever cable	Outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
		Steel	✓	✓	✓	✓	✓	✓
Brake lever	Compatible brake type	V-BRAKE	✓	✓ with switch*	✓	✓ with switch*	✓	✓ with switch*
		Mechanical disc brake (MTB)	✓	✓ with switch*	✓	✓ with switch*	✓	✓ with switch*
		Mechanical disc brake (Road)	-	-	-	-	-	-
		Caliper (SLR-EV)	-	-	-	-	-	-
		Caliper (NEW SUPER SLR)	-	-	-	-	-	-
		Caliper (SUPER SLR)	-	✓ with switch	-	✓ with switch	-	✓ with switch
		Cantilever brake	-	✓ with switch	-	✓ with switch	-	✓ with switch
		Roller brake	-	✓ with switch	-	✓ with switch	-	✓ with switch
	Recommended POWER MODULATOR	V-BRAKE	-	SM-PM40	-	SM-PM40	-	SM-PM40
		Mechanical disc brake (MTB)	-	SM-PM50	-	SM-PM50	-	SM-PM50
	Clamp band	Open clamp band	-	-	-	-	-	-
	Internal bumper stop		-	-	-	-	-	-
	Lever size (finger)		2	4	2	4	2	4
	Brake cable type		T-type	T-type	T-type	T-type	T-type	T-type
	Power adjuster		-	-	-	-	-	-
	SERVO WAVE		-	-	-	-	-	-
	Reach adjust		✓	✓	✓	✓	✓	✓
	Cable adjust		✓	✓	✓	✓	✓	✓
	Cable adjust type		Two hand	Two hand	Two hand	Two hand	Two hand	Two hand
	Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
		Finish	Painted	Painted	Painted	Painted	Painted	Painted
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
		Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
		Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)			-	-	-	-	-	-
Note				* POWER MODULATOR must be used for front brake		* POWER MODULATOR must be used for front brake		* POWER MODULATOR must be used for front brake

Shift/Brake Lever (Flat Handlebar type)

Series			SHIMANO	SHIMANO	SHIMANO
Model no.			ST-EF41-7R	ST-EF41-6R	ST-EF41-L
Color	1		Black	Black	Black
	2		-	-	-
Shifter type			EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
Shift lever	Front speeds		-	-	3
	Rear speeds		7	6	-
	Compatible rear derailleur type		MTB 7-speed	MTB 6-speed	-
	Shift lever position adjust		-	-	-
	Shift lever cable adjust		-	-	✓
	2/3 mode converter		-	-	-
	Max. multiple shifts (main lever/rear)		3	3	-
	Release function	MULTI RELEASE	-	-	-
		INSTANT RELEASE	-	-	-
		2-WAY RELEASE	-	-	-
	OPTICAL GEAR DISPLAY	With	✓	✓	✓
		With (removable)	-	-	-
		Without	-	-	-
	Multi-Bearing construction		-	-	-
	Main lever body	Material	Resin	Resin	Resin
		Finish	-	-	-
	Release lever body	Material	Resin	Resin	Resin
		Finish	-	-	-
Shift lever cable	Outer casing		OT-SIS40	OT-SIS40	OT-SIS40
	Inner cable	Polymer-coated cable	-	-	-
		OPTISLICK	-	-	-
		SIL-TEC	-	-	-
		Stainless	-	-	-
		Steel	✓	✓	✓
Brake lever	Compatible brake type	V-BRAKE	✓	✓	✓
		Mechanical disc brake (MTB)	✓	✓	✓
		Mechanical disc brake (Road)	-	-	-
		Caliper (SLR-EV)	-	-	-
		Caliper (NEW SUPER SLR)	-	-	-
		Caliper (SUPER SLR)	-	-	-
		Cantilever brake	-	-	-
		Roller brake	-	-	-
	Recommended POWER MODULATOR	V-BRAKE	-	-	-
		Mechanical disc brake (MTB)	-	-	-
	Clamp band	Open clamp band	-	-	-
	Internal bumper stop		-	-	-
	Lever size (finger)		2	2	2
	Brake cable type		T-type	T-type	T-type
	Power adjuster		-	-	-
	SERVO WAVE		-	-	-
	Reach adjust		✓	✓	✓
	Cable adjust		✓	✓	✓
	Cable adjust type		Two hand	Two hand	Two hand
	Brake lever	Material	Steel/Resin	Steel/Resin	Steel/Resin
		Finish	-	-	-
Bracket	Bracket	Material	Steel	Steel	Steel
		Finish	Painted	Painted	Painted
	Clamp screw	Material	Steel	Steel	Steel
		Finish	Zinc plated	Zinc plated	Zinc plated
Average weight (g)			-	-	-
Note					

Shift/Brake Lever (Hydraulic disc brake, Drop Handlebar type)

Series			CUES	CUES
Model no.			ST-U6030-R	ST-U6030-L
Color	1		Series color	Series color
	2		-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds		-	2
	Rear speeds		11/10	-
	Max. multiple shifts (main lever/rear)		2	-
	Multi-bearing construction		-	-
Brake lever	Brake hose (kit)		SM-BH59-JK-SSR	SM-BH59-JK-SSR
	Hose joint		Straight	Straight
	Brake hose color (kit)	1	Black	Black
		2	-	-
	Recommended brake caliper		BR-U6030, BR-RS405	BR-U6030, BR-RS405
	Oil		SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓
	Clamp band (mm)		23.8-24.2	23.8-24.2
	Funnel bleeding		✓	✓
	Free stroke adjust		-	-
	SERVO WAVE		-	-
Bracket	Material		Engineering composite	Engineering composite
	Finish		-	-
Brake lever	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Clamp band	Material		Steel	Steel
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41
		Rear derailleur side	-	-
	Inner cable	Polymer-coated cable	-	-
		OPTISLICK	✓	✓
		SIL-TEC	-	-
		Stainless	-	-
		Steel	✓	✓
Average weight (g)			-	-
Note			Compatible with LINKGLIDE system 11/10-speed	-

Shift/Brake Lever (Drop Handlebar type)

Series			CUES	CUES	CUES	SHIMANO ESSA	TOURNEY	TOURNEY
Model no.			ST-U3030-L	ST-U3030-10R	ST-U3030-9R	ST-U2030-R	ST-A070	ST-A073-L
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds		2	-	-	-	2	3
	Rear speeds		-	10	9	8	7	-
	Multi-bearing construction		0	0	0	0	-	-
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40	OT-SIS40
		Rear derailleur side	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SIS40	OT-SIS40
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	✓	✓	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	✓ *	✓ *
		Steel	✓	✓	✓	✓	-	-
Brake lever	Reach adjust		Screw	Screw	Screw	Screw	Screw	Screw
	Clamp band (mm)		23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
	SLR-EV		-	-	-	-	-	-
	NEW SUPER SLR		✓	✓	✓	✓	-	-
	SUPER SLR		-	-	-	-	✓	✓
	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Bracket	Material		GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish		-	-	-	-	-	-
Average weight (g)			-	-	-	-	-	-
Note							* Option	* Option

Rear Derailleur

Series			CUES	CUES	CUES	CUES	CUES	CUES
Model no.			RD-U8000	RD-U8020	RD-U6000	RD-U6020-11	RD-U6020-10	RD-U4000
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			11	11	11/10	11	10	9
Compatible chain			LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
RD construction	SHIMANO SHADOW RD		-	-	-	✓	✓	✓
	SHIMANO SHADOW RD+		✓	✓	✓	-	-	-
	Double servo		-	-	-	-	-	-
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
		Direct mount	-	-	-	-	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	-	-	-	-	-	-
		Direct mount	-	-	-	-	-	-
	UDH standard		✓	✓	✓	✓	✓	✓
	Riveted adapter	ROAD type	-	-	-	-	-	-
		BMX-track type	-	-	-	-	-	-
Mode converter			-	-	-	-	-	-
Cable adjuster			✓	✓ / -	✓	✓ / -	✓ / -	✓
Max. front difference			0T	14T	0T	14T	16T	0T
Total capacity			39T	48T	39T	48T	44T	35T
Low sprocket	Max.		50T	45T	50T	45T	39T	46T
	Min.		50T	45T	48T	45T	39T	41T
Top sprocket	Max.		11T	11T	11T	11T	11T	11T
	Min.		11T	11T	11T	11T	11T	11T
Fluoric coated link bushings			4	4	3	3	3	1
Pulley	Guide pulley bearing		Sealed bearing	Sealed bearing	-	-	-	-
	Tension pulley bearing		Sealed bearing	-	-	-	-	-
	Teeth		13/13T	11/13T	13/13T	11/13T	11/13T	13/13T
	Screws material		Steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley screw		✓	✓	✓	✓	✓	✓
Bracket	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
B-axle	Hollow axle		-	-	-	-	-	-
	Material		Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Black	Black	-	-	-	-
B-axle 2	Hollow axle		-	-	-	-	-	-
	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	-	-	-	-	-
Plate body	Material		PA+GF	PA+GF	PA+GF	PA+GF	PA+GF	PA+GF
	Finish		-	-	-	-	-	-
Outer link	Material		Aluminum	Aluminum	Aluminum	PA+GF	PA+GF	PA+GF
	Finish		Painted	Painted	Painted	Painted	Painted	-
Inner link	Material		Aluminum	Aluminum	Aluminum	PA+GF	PA+GF	Aluminum
	Finish		Painted	Painted	Painted	-	-	Painted
Outer plate	Material		Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Black	Black	-	-	-	-
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)			-	-	-	-	-	-
Note			E-bike rated	E-bike rated	E-bike rated	E-bike rated	E-bike rated	E-bike rated

Rear Derailleur

Series			CUES	CUES	CUES	SHIMANO ALIVIO	ALTUS	ALTUS
Model no.			RD-U4010	RD-U4020	RD-U3020	RD-M3100-SGS	RD-M2000	RD-M370-SGS
Color	1		Series color	Series color	Series color	Series color	Series color	Black
	2		-	-	-	-	-	Silver
Rear speeds			9/10	9	9	9	9	9
Compatible chain			LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG 9-speed	HG 9-speed	HG 9-speed
RD construction	SHIMANO SHADOW RD		✓	✓	✓	✓	✓	-
	SHIMANO SHADOW RD+		-	-	-	-	-	-
	Double servo		-	-	-	-	-	✓
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
		Direct mount	-	-	-	-	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	-	-	-	-	-	-
		Direct mount	-	-	-	-	-	-
	UDH standard		✓	✓	✓	-	-	-
	Riveted adapter	ROAD type	-	-	-	-	-	-
		BMX-track type	-	-	-	-	-	-
Mode converter			-	-	-	-	-	-
Cable adjuster			-	✓ / -	✓ / -	✓	✓	✓
Max. front difference			0T	16T	16T	22T	22T	22T
Total capacity			28T	41T	41T	45T	45T	45T
Low sprocket	Max.		39T	36T	36T	36T	36T	34T
	Min.		36T	36T	36T	32T	32T	28T
Top sprocket	Max.		11T	11T	11T	12T	12T	11T
	Min.		11T	11T	11T	11T	11T	11T
Fluoric coated link bushings			-	1	-	1	-	-
Pulley	Guide pulley bearing		-	-	-	-	-	-
	Tension pulley bearing		-	-	-	-	-	-
	Teeth		11/11T	11/11T	11/11T	11T	11T	11/11T
	Screws material		Steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley screw		✓	✓	✓	✓	✓	✓ (guide pulley), - (tension pulley)
Bracket	Material		-	-	-	Steel	Steel	-
	Finish		-	-	-	Painted	Painted	-
B-axle	Hollow axle		✓	-	-	✓	-	-
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
B-axle 2	Hollow axle		-	-	-	-	-	-
	Material		-	-	-	Stainless steel	Stainless steel	-
	Finish		-	-	-	-	-	-
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	-	-	Zinc plated	Zinc plated	Zinc plated
Plate body	Material		PA+GF	PA+GF	PA+GF	PA+GF	PA+GF	Resin
	Finish		-	-	-	-	-	Painted
Outer link	Material		PA+GF	PA+GF	PA+GF	PA+GF	PA+GF	Steel
	Finish		-	-	-	-	Painted	Painted
Inner link	Material		PA+GF	PA+GF	PA+GF	Steel	Steel	Steel
	Finish		-	-	-	Painted	Zinc plated	Painted
Outer plate	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel
	Finish		-	-	-	-	-	Zinc plated
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Zinc plated	Zinc plated
Average weight (g)			-	-	-	-	-	-
Note			E-bike rated	E-bike rated				

Rear Derailleur

Series			SHIMANO ESSA	ACERA	ALTUS	TOURNEY TX	TOURNEY A070	TOURNEY
Model no.			RD-U2000	RD-M3020-8	RD-M310-Smart	RD-TX800	RD-A070	RD-TY500-SGS
Color	1		Series color	Black	Black	Black	Series color	Series color
	2		-	-	Silver	Silver	-	-
Rear speeds			8	8/7	8/7	8/7	7	7/6
Compatible chain			HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed
RD construction	SHIMANO SHADOW RD		✓	-	-	-	-	-
	SHIMANO SHADOW RD+		-	-	-	-	-	-
	Double servo		-	✓	✓	✓	-	✓
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	✓	✓	✓	✓	-	✓
		Direct mount	-	-	-	-	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	-	-	-	-	✓	-
		Direct mount	-	-	-	-	-	-
	UDH standard		-	-	-	-	-	-
	Riveted adapter	ROAD type	-	-	-	-	✓	✓
		BMX-track type	-	-	-	-	-	✓
Mode converter			-	-	-	-	-	-
Cable adjuster			✓	✓	✓	✓	✓	✓
Max. front difference			0T	20T	20T	20T	20T	20T
Total capacity			34T	45T	43T	43T	37T	43T
Low sprocket	Max.		45T	40T	34T	34T	28T	34T
	Min.		45T	30T	28T	28T	28T	28T
Top sprocket	Max.		11T	12T	14T	14T	14T	14T
	Min.		11T	11T	11T	11T	11T	11T
Fluoric coated link bushings			-	1	-	-	-	-
Pulley	Guide pulley bearing		-	-	-	-	-	-
	Tension pulley bearing		-	-	-	-	-	-
	Teeth		11/11T	11T	13/15T	13/13T	11/13T	13/13T
	Screws material		Steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley screw		✓	✓	-	-	-	-
Bracket	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
B-axle	Hollow axle		-	-	-	-	-	-
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
	Finish		-	-	-	-	MnPO4	Zinc plated
B-axle 2	Hollow axle		-	-	-	-	-	-
	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Bracket body	Material		Aluminum	Aluminum	Aluminum	Resin	Resin	Resin
	Finish		Painted	Painted	Painted	Painted	-	-
P-axle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Zinc plated	Zinc plated	Zinc plated	Zinc plated	Plated	Zinc plated
Plate body	Material		PA+GF	PA+GF	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Outer link	Material		PA+GF	Steel	Steel	Steel	Steel	Steel
	Finish		-	Painted	Painted	Painted	Painted	Painted
Inner link	Material		PA+GF	Steel	Steel	Steel	Steel	Resin
	Finish		-	Zinc plated	Zinc plated	Zinc plated	Zinc plated	-
Outer plate	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Zinc plated	Zinc plated	Painted	Painted
Cable fixing screw	Material		Stainless Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	Zinc plated	Zinc plated	Zinc plated	Zinc Plated	Zinc plated
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Zinc plated	Zinc plated	Zinc plated	Zinc Plated	Zinc plated
Average weight (g)			-	-	-	-	-	-
Note				-				w/ Wheel type cable guide

Rear Derailleur

Series			TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.			RD-TY300-SGS	RD-TY200-SS	RD-TY200-GS	RD-FT35-A-SS	RD-TY21-B-SS	RD-TY21-B-GS
Color	1		Series color	Black	Black	Black	Black	Black
	2		-	-	-	-	Silver	Silver
Rear speeds			7/6	7/6 (front single)	7/6	7/6 (front single)	6	6
Compatible chain			HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed
RD construction	SHIMANO SHADOW RD		-	-	-	-	-	-
	SHIMANO SHADOW RD+		-	-	-	-	-	-
	Double servo		✓	-	-	-	-	-
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
		Direct mount	-	-	-	-	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	-	-	-	-	-	-
		Direct mount	-	-	-	-	-	-
	UDH standard		-	-	-	-	-	-
	Riveted adapter	ROAD type	✓	✓	✓	✓	✓	✓
		BMX-track type	✓	✓	-	✓	-	-
Mode converter			-	-	-	-	-	-
Cable adjuster			✓	✓	✓	✓	✓	✓
Max. front difference			20T	0T	20T	0T	13T	20T
Total capacity			43T	20T	34T	17T	28T	34T
Low sprocket	Max.		34T	34T	28T	28T	28T	28T
	Min.		28T	28T	28T	28T	28T	28T
Top sprocket	Max.		14T	14T	14T	14T	14T	14T
	Min.		11T	12T	14T	11T	14T	14T
Fluoric coated link bushings			-	-	-	-	-	-
Pulley	Guide pulley bearing		-	-	-	-	-	-
	Tension pulley bearing		-	-	-	-	-	-
	Teeth		13/13T	11/11T	11/11T	11/11T	11/11T	11/11T
	Screws material		Steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley screw		-	-	-	-	-	-
Bracket	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
B-axle	Hollow axle		-	-	-	-	-	-
	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Zinc plated	Black	Black	Black	Black	Black
B-axle 2	Hollow axle		-	-	-	-	-	-
	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Bracket body	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
P-axle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Plate body	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Outer link	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted (black), Zinc plated (silver)	Painted (black), Zinc plated (silver)
Inner link	Material		Steel	Resin	Resin	Steel	Steel	Steel
	Finish		Zinc plated	Painted	Painted	Zinc plated	Painted (black), Zinc plated (silver)	Painted (black), Zinc plated (silver)
Outer plate	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted (black), Zinc plated (silver)	Painted (black), Zinc plated (silver)
Inner plate	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted (black), Zinc plated (silver)	Painted (black), Zinc plated (silver)
Cable fixing screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Zinc plated	Zinc Plated	Zinc Plated	Zinc plated	Zinc plated	Zinc plated
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Zinc plated	Zinc Plated	Zinc Plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g)			-	-	-	-	-	-
Note								

Rear Derailleur

Series			TOURNEY TZ
Model no.			RD-TZ500-GS
Color	1		Series color
	2		-
Rear speeds			6
Compatible chain			HG 8/7/6-speed
RD construction	SHIMANO SHADOW RD		-
	SHIMANO SHADOW RD+		-
	Double servo		-
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	✓
		Direct mount	-
	SHIMANO ROAD type	Direct attachment (conventional)	-
		Direct mount	-
	UDH standard		-
	Riveted adapter	ROAD type	✓
		BMX-track type	-
Mode converter			-
Cable adjuster			✓
Max. front difference			20T
Total capacity			34T
Low sprocket	Max.		28T
	Min.		28T
Top sprocket	Max.		14T
	Min.		14T
Fluoric coated link bushings			-
Pulley	Guide pulley bearing		-
	Tension pulley bearing		-
	Teeth		11/11T
	Screws material		Steel
	Sunken type pulley screw		-
Bracket	Material		-
	Finish		-
B-axle	Hollow axle		-
	Material		Steel
	Finish		Black
B-axle 2	Hollow axle		-
	Material		-
	Finish		-
Bracket body	Material		Steel
	Finish		Painted
P-axle	Material		Steel
	Finish		Zinc plated
Plate body	Material		Resin
	Finish		-
Outer link	Material		Steel
	Finish		Painted
Inner link	Material		Steel
	Finish		Zinc plated
Outer plate	Material		Steel
	Finish		Painted
Inner plate	Material		Steel
	Finish		Painted
Cable fixing screw	Material		Steel
	Finish		Zinc plated
Stroke adjusting screw	Material		Steel
	Finish		Zinc plated
Average weight (g)			-
Note			

Front Derailleur

Series			CUES	CUES	CUES	CUES	CUES	CUES
Model no.			FD-U8010-L	FD-U6000-D	FD-U6000-E	FD-U6000-M	FD-U6010-L	FD-U6030-F
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Front speeds			2	2	2	2	2	2
Rear speeds			11/10	11/10	11/10	11/10	11/10	10/9
Compatible chain			LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Action	TOP SWING		✓	-	-	-	✓	-
	Down swing		-	-	-	-	-	✓
	SIDE SWING		-	✓	✓	✓	-	-
Mount	Clamp band (mm)	28.6	-	-	-	-	✓ (w/ S size adapter)	-
		31.8	✓ (w/ M size adapter)	-	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	-
		34.9	✓	-	-	✓	✓	-
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	✓	-	-	-
	Direct mount		-	✓	-	-	-	-
	Brazed-on		-	-	-	-	-	✓
Cable adjust			-	-	-	-	-	✓
Cable route type	Dual-pull		✓	-	-	-	✓	-
	Top-pull exclusive		-	-	-	-	-	-
	Down-pull exclusive		-	-	-	-	-	✓
	Front-pull		-	✓	✓	✓	-	-
Chain line (mm)			48.8	48.8/51.8	48.8/51.8	48.8/51.8	48.8	47
Chainstay angle (deg.)			63-68	64-69	64-69	64-69	63-68	62-66
Top gear teeth			46T	36T, 40T	36T, 40T	36T, 40T	40T (2x11-speed), 46T (2x11/ 2x10-speed)	46T, 50T
Total capacity			16T	14T	14T	14T	16T	16T
Applicable top-mid tooth difference			-	-	-	-	-	-
Multi access cable fixing screw			-	-	-	-	-	-
Angled stroke adjust screw			✓	✓	✓	✓	✓	-
Angled clamp band design			✓	-	-	✓	✓	-
Multi-bearing construction			-	-	-	-	-	-
Link bushings			4	4	4	4	4	7
Front clamp band	Material		Aluminum	-	-	Steel	Aluminum	-
	Finish		Painted	-	-	Painted	Painted	-
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	-	-	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Steel	Steel	Steel	Steel	Steel	GFRP
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Plated
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Stainless steel	Steel	Steel	Steel	Stainless steel	Steel
	Finish		-	Phosphate coated	Phosphate coated	Phosphate coated	-	Phosphate coated
Average weight (g) (band type: L size, direct type w/ screw)				-	-	-	-	-
Note								

Front Derailleur

Series			CUES	CUES	CUES	CUES	CUES	CUES
Model no.			FD-U6030-B	FD-U4000-D	FD-U4000-E	FD-U4000-M	FD-U4000-L	FD-U4010-L
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Front speeds			2	2	2	2	2	2
Rear speeds			10/9	10/9	10/9	10/9	10/9	9
Compatible chain			LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Action	TOP SWING		-	-	-	-	✓	✓
	Down swing		✓	-	-	-	-	-
	SIDE SWING		-	✓	✓	✓	-	-
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	-	-	-	-	-
		31.8	✓ (w/ M size adapter)	-	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	✓	-	-	✓	✓	✓
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	✓	-	-	-
	Direct mount		-	✓	-	-	-	-
	Brazed-on		-	-	-	-	-	-
Cable adjust			✓	-	-	-	-	-
Cable route type	Dual-pull		-	-	-	-	✓	✓
	Top-pull exclusive		-	-	-	-	-	-
	Down-pull exclusive		✓	-	-	-	-	-
	Front-pull		-	✓	✓	✓	-	-
Chain line (mm)			47	48.8/51.8	48.8/51.8	48.8/51.8	48.8/51.8	48.8
Chainstay angle (deg.)			62-66	64-69	64-69	64-69	64-69	63-68
Top gear teeth			46T, 50T	36T, 40T	36T, 40T	36T, 40T	36T, 40T	46T
Total capacity			16T	14T	14T	14T	14T	16T
Applicable top-mid tooth difference			-	-	-	-	-	-
Multi access cable fixing screw			-	-	-	-	-	-
Angled stroke adjust screw			-	✓	✓	✓	✓	✓
Angled clamp band design			-	-	-	✓	✓	✓
Multi-bearing construction			-	-	-	-	-	-
Link bushings			7	4	4	4	-	-
Front clamp band	Material		Aluminum	-	-	Steel	Steel	Steel
	Finish		Painted	-	-	Painted	Painted	Painted
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	-	-	Steel	Steel	Stainless steel
	Finish		-	-	-	-	Nickel plated	-
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		GFRP	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Plated	Plated
Inner link	Material		Steel	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish		Plated	Painted	Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Chrome plated	Plated	Plated	Plated	Plated	Plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Stainless steel
	Finish		Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated	Zinc plated	-
Average weight (g) (band type: L size, direct type w/ screw)			-	-	-	-	-	-
Note				-	-	-		

Front Derailleur

Series			SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO
Model no.			FD-M4020-M	FD-M3100-M	FD-M3120-D	FD-M3120-E	FD-M3120-M	FD-M3120-M-B
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Front speeds			2	3	2	2	2	2
Rear speeds			9	9	9	9	9	9
Compatible chain			HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Action	TOP SWING		-	-	-	-	-	-
	Down swing		-	-	-	-	-	-
	SIDE SWING		✓	✓	✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	✓ (w/ S size adapter)	-	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	-	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	✓	✓	-	-	✓	✓
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	✓	-	-
	Direct mount		-	-	✓	-	-	-
	Brazed-on		-	-	-	-	-	-
Cable adjust				-	-	-	-	-
Cable route type	Dual-pull		-	-	-	-	-	-
	Top-pull exclusive		-	-	-	-	-	-
	Down-pull exclusive		-	-	-	-	-	-
	Front-pull		✓	✓	✓	✓	✓	✓
Chain line (mm)			48.8	50	48.8/51.8	48.8/51.8	48.8	51.8
Chainstay angle (deg.)			64-69	66-69	64-69	64-69	64-69	64-69
Top gear teeth			36T	40T	36T	36T	36T	36T
Total capacity			14T	18T	14T	14T	14T	14T
Applicable top-mid tooth difference			-	10T	-	-	-	-
Multi access cable fixing screw			-	-	-	-	-	-
Angled stroke adjust screw			✓	✓	✓	✓	✓	✓
Angled clamp band design			-	✓	✓	✓	✓	✓
Multi-bearing construction			-	-	-	-	-	-
Link bushings			4	4	4	4	4	4
Front clamp band	Material		Steel	Steel	-	-	Steel	Steel
	Finish		Painted	Painted	-	-	Painted	Painted
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	-	-	-	-	-
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Chrome plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Stainless steel	-	-	-	-	-
	Finish		-	-	-	-	-	-
Average weight (g) (band type: L size, direct type w/ screw)			-	-	-	-	-	-
Note			-					

Front Derailleur

Series			ACERA	ALTUS	ALTUS	ALTUS	ALTUS	ALTUS
Model no.			FD-M3000-TS6	FD-M2020-TS	FD-M2000-TS3	FD-M2000-TS6	FD-M2000-DS3	FD-M2000-DS6
Color	1		Black	Series color	Black	Series color	Black	Series color
	2		-	-	-	-	-	-
Front speeds			3	2	3	3	3	3
Rear speeds			9	9	9	9	9	9
Compatible chain			HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Action	TOP SWING		✓	✓	✓	✓	-	-
	Down swing		-	-	-	-	✓	✓
	SIDE SWING		-	-	-	-	-	-
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	✓	✓	✓	✓	✓	✓
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount		-	-	-	-	-	-
	Brazed-on		-	-	-	-	-	-
Cable adjust			-	-	-	-	-	-
Cable route type	Dual-pull		✓	✓	✓	✓	✓	✓
	Top-pull exclusive		-	-	-	-	-	-
	Down-pull exclusive		-	-	-	-	-	-
	Front-pull		-	-	-	-	-	-
Chain line (mm)			50	48.8/51.8 *	50	50	50	50
Chainstay angle (deg.)			66-69	64-69	63-66	66-69	63-66	66-69
Top gear teeth			40T	36T	40T	40T	40T	40T
Total capacity			18T	14T	18T	18T	18T	18T
Applicable top-mid tooth difference			10T	-	10T	10T	10T	10T
Multi access cable fixing screw			-	-	-	-	-	-
Angled stroke adjust screw			✓	✓	✓	✓	✓	✓
Angled clamp band design			✓	✓	✓	✓	✓	✓
Multi-bearing construction			-	-	-	-	-	-
Link bushings			-	-	-	-	-	-
Front clamp band	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Rear clamp band, base bracket	Material		Steel	Steel	Steel	Steel	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Stainless steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Zinc plated	Zinc plated	Zinc plated	Painted	Painted
Inner link	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted/Zinc plated	Painted/Zinc plated
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g) (band type: L size, direct type w/ screw)			-	-	-	-	-	-
Note				* Boost spec.				

Front Derailleur

Series			ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	ALTUS
Model no.			FD-M370-3	FD-M370-6	FD-M371-3	FD-M371-6	FD-M315-TS	FD-M313-3
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Front speeds			3	3	3	3	2	3
Rear speeds			9	9	9	9	8/7	8/7
Compatible chain			HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 8/7/6-speed	HG 8/7/6-speed
Action	TOP SWING		✓	✓	-	-	✓	-
	Down swing		-	-	✓	✓	-	✓
	SIDE SWING		-	-	-	-	-	-
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	✓	✓	✓	✓	✓	✓
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount		-	-	-	-	-	-
	Brazed-on		-	-	-	-	-	-
Cable adjust			-	-	-	-	-	-
Cable route type	Dual-pull		✓	✓	✓	✓	✓	✓
	Top-pull exclusive		-	-	-	-	-	-
	Down-pull exclusive		-	-	-	-	-	-
	Front-pull		-	-	-	-	-	-
Chain line (mm)			50	50	50	50	48.8/51.8 *	47.5/50
Chainstay angle (deg.)			63-66	66-69	63-66	66-69	64-69	63-66
Top gear teeth			44T, 48T	44T, 48T	44T, 48T	44T, 48T	36T	42T, 48T
Total capacity			22T	22T	22T	22T	14T	20T
Applicable top-mid tooth difference			12T	12T	12T	12T	-	10T
Multi access cable fixing screw			-	-	-	-	-	-
Angled stroke adjust screw			-	-	-	-	✓	-
Angled clamp band design			✓	✓	✓	✓	✓	✓
Multi-bearing construction			-	-	-	-	-	-
Link bushings			-	-	-	-	-	-
Front clamp band	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Rear clamp band, base bracket	Material		Steel	Steel	Aluminum	Aluminum	Steel	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Steel	Steel	Steel	Steel	Zinc plated	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g) (band type: L size, direct type w/ screw)			-	-	-	-	-	-
Note							* Boost spec.	

Front Derailleur

Series			ALTUS	ALTUS	ALTUS	TOURNEY TX	TOURNEY TX	TOURNEY
Model no.			FD-M313-6	FD-M310-3	FD-M310-6	FD-TX800-TS3	FD-TX800-TS6	FD-TY600-L6
Color	1		Series color	Series color	Series color	Black	Series color	Series color
	2		-	-	-	-	-	-
Front speeds			3	3	3	3	3	3
Rear speeds			8/7	8/7	8/7	8/7	8/7	8/7/6
Compatible chain			HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed
Action	TOP SWING		-	✓	✓	✓	✓	✓
	Down swing		✓	-	-	-	-	-
	SIDE SWING		-	-	-	-	-	-
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	-
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓
		34.9	✓	✓	✓	✓	✓	✓
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount		-	-	-	-	-	-
	Brazed-on		-	-	-	-	-	-
Cable adjust			-	-	-	-	-	-
Cable route type	Dual-pull		✓	✓	✓	✓	✓	✓
	Top-pull exclusive		-	-	-	-	-	-
	Down-pull exclusive		-	-	-	-	-	-
	Front-pull		-	-	-	-	-	-
Chain line (mm)			47.5/50	47.5/50	47.5/50	47.5/50	47.5/50	47.5/50
Chainstay angle (deg.)			66-69	63-66	66-69	63-66	66-69	66-69
Top gear teeth			42T, 48T	42T, 48T	42T, 48T	42T, 48T	42T, 48T	42T
Total capacity			20T	20T	20T	20T	20T	18T
Applicable top-mid tooth difference			10T	10T	10T	10T	10T	8T
Multi access cable fixing screw			-	-	-	-	-	-
Angled stroke adjust screw			-	-	-	-	-	-
Angled clamp band design			✓	✓	✓	✓	✓	✓
Multi-bearing construction			-	-	-	-	-	-
Link bushings			-	-	-	-	-	-
Front clamp band	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Zinc plated
Rear clamp band, base bracket	Material		Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Zinc plated
Clamp screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Zinc plated	Zinc plated	Zinc plated
Inner link	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated/ Painted
Cable fixing screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g) (band type: L size, direct type w/ screw)			-	-	-	-	-	-
Note								-

Front Derailleur

Series			TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.			FD-TY600-L3	FD-TY601-L6	FD-TY601-L3	FD-TY606-L	FD-TY300-DS6(475)	FD-TY300-DS6(50)
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Front speeds			3	3	3	2	3	3
Rear speeds			8/7/6	8/7/6	8/7/6	8/7/6	7/6	7/6
Compatible chain			HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed
Action	TOP SWING		✓	✓	✓	✓	-	-
	Down swing		-	-	-	-	✓	✓
	SIDE SWING		-	-	-	-	-	-
Mount	Clamp band (mm)	28.6	-	-	-	-	✓	-
		31.8	✓	✓	✓	✓	✓	-
		34.9	✓	✓	✓	✓	-	✓
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount		-	-	-	-	-	-
	Brazed-on		-	-	-	-	-	-
Cable adjust			-	-	-	-	-	-
Cable route type	Dual-pull		✓	✓	✓	✓	-	-
	Top-pull exclusive		-	-	-	-	✓	✓
	Down-pull exclusive		-	-	-	-	✓	✓
	Front-pull		-	-	-	-	-	-
Chain line (mm)			47.5/50	47.5/50	47.5/50	48.8	47.5	50
Chainstay angle (deg.)			63-66	66-69	63-66	63-68	66-69	66-69
Top gear teeth			42T	48T	48T	46T	42T	42T
Total capacity			18T	20T	20T	16T	18T	18T
Applicable top-mid tooth difference			8T	10T	10T	-	8T	8T
Multi access cable fixing screw			-	-	-	-	-	-
Angled stroke adjust screw			-	-	-	-	-	-
Angled clamp band design			✓	✓	✓	✓	-	-
Multi-bearing construction			-	-	-	-	-	-
Link bushings			-	-	-	-	-	-
Front clamp band	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Zinc plated	Zinc plated	Zinc plated	Painted	Painted	Painted
Rear clamp band, base bracket	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Zinc plated	Zinc plated	Zinc plated	Painted	Painted	Painted
Clamp screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Steel	Steel	Steel	Steel	Steel+Resin	Steel+Resin
	Finish		Zinc plated	Zinc plated	Zinc plated	Zinc plated	Painted	Painted
Inner link	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Zinc plated	Zinc plated
Chain guide	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Chrome plated/ Painted	Chrome plated/ Painted	Chrome plated/ Painted	Chrome plated	Zinc plated	Zinc plated
Cable fixing screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g) (band type: L size, direct type w/ screw)			-	-	-	-	-	-
Note			-	-	-	-		

Front Derailleur

Series			TOURNEY TZ	TOURNEY TZ	TOURNEY	TOURNEY
Model no.			FD-TZ500-DS6	FD-TZ510-DS6	FD-A070-A	FD-A073
Color	1		Series color	Series color	Series color	Series color
	2		-	-	-	-
Front speeds			3 (friction)	3 (friction)	2	3
Rear speeds			7/6	7/6	7	7
Compatible chain			HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed
Action	TOP SWING		-	-	-	-
	Down swing		✓	✓	✓	✓
	SIDE SWING		-	-	-	-
Mount	Clamp band (mm)	28.6	✓	✓	✓ (w/ S size adapter)	✓ (w/ S size adapter)
		31.8	✓	✓	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	-	-	✓	✓
	E-type	With bottom bracket plate	-	-	-	-
		Without bottom bracket plate	-	-	-	-
	Direct mount		-	-	-	-
	Brazed-on		-	-	-	-
Cable adjust			-	-	-	-
Cable route type	Dual-pull		-	-	-	-
	Top-pull exclusive		✓	✓	-	-
	Down-pull exclusive		✓	✓	-	-
	Front-pull		-	-	-	-
Chain line (mm)			47.5	47.5	43.5	45
Chainstay angle (deg.)			66-69	66-69	61-66	63-66
Top gear teeth			42T	48T	50T	50T
Total capacity			18T	20T	16T	20T
Applicable top-mid tooth difference			8T	10T	-	11T
Multi access cable fixing screw			-	-	-	-
Angled stroke adjust screw			-	-	-	-
Angled clamp band design			-	-	✓	✓
Multi-bearing construction			-	-	-	-
Link bushings			-	-	-	-
Front clamp band	Material		Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted
Rear clamp band, base bracket	Material		Steel	Steel	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted
Clamp screw	Material		Steel	Steel	-	-
	Finish		Zinc plated	Zinc plated	-	-
Bottom bracket plate	Material		-	-	-	-
	Finish		-	-	-	-
Outer link	Material		Steel+Resin	Steel+Resin	Steel	Steel
	Finish		Painted	Painted	Painted	Painted
Inner link	Material		Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted
Chain guide	Material		Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted
Cable fixing screw	Material		Steel	Steel	Steel	Steel
	Finish		Zinc plated	Zinc plated	Nickel plated	Nickel plated
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel
	Finish		Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g) (band type: L size, direct type w/ screw)			-	-	-	-
Note						

Brake (Hydraulic Disc Brake)

Series		CUES	CUES	CUES	CUES	CUES	SHIMANO
Model no.		BR-U8000	BR-U8010	BR-U8020	BR-U6030-F	BR-U6030-R	BR-UR300
Color	1	Series color	Series color	Series color	Series color	Series color	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SBM	SM-BH90-SS	SM-BH90-SBM	SM-BH59-JK-SSR	SM-BH59-JK-SSR	SM-BH59-JK-SS
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
Hose joint		Banjo	Straight	Banjo	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
ICE TECHNOLOGIES pad compatible caliper		✓	✓	✓	-	-	-
Pad	Standard 1	G05A-RX Resin (w/o fin)	K05S-RX Resin (w/o fin) *	N03A-RF Resin (w/ fin)	B05S-RX Resin (w/o fin)	B05S-RX Resin (w/o fin)	B05S-RX Resin (w/o fin)
	Standard 2	-	L05A-RF Resin (w/ fin) **	D03S-RX Resin (w/o fin)	-	-	-
	Option 1	G04S-MX Metal (w/o fin)	-	N04C-MF Metal (w/ fin)	-	-	-
	Option 2	J05A-RF Resin (w/ fin)	-	D02S-MX Metal (w/o fin)	-	-	-
Fixing screw spec for rear mount	10 mm mount	-	✓	-	✓	✓	✓
	15 mm mount	-	✓	-	✓	✓	✓
	20 mm mount	-	✓	-	✓	✓	✓
	25 mm mount	-	✓	-	✓	✓	✓
	30 mm mount	-	✓	-	✓	✓	✓
	35 mm mount	-	✓	-	✓	✓	✓
	15.2 mm	-	-	-	-	-	-
	18.7 mm	✓	-	✓	-	-	-
Recommended brake lever		BL-U8000	BL-U8000	BL-U8000	ST-U6030 BL-U6030-L	ST-U6030 BL-U6030-L	BL-MT201 BL-MT200
Recommended disc brake rotor		RT-MT800	RT-MT800	RT-MT800	SM-RT54 SM-RT30	SM-RT54 SM-RT30	SM-RT10 *, SM-RT26 *
Compatible rotor size	140 mm (SS)	✓	✓	✓	-	-	-
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	✓	✓	✓	✓	✓	✓
	203 mm (L)	✓	-	✓	-	-	-
	220 mm (LL)	✓	-	✓	-	-	-
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓	-	✓	✓	✓
Mount type		Post type	Flat mount	Post type	Flat mount	Flat mount	Flat mount
Piston		2	2	4	2	2	2
Piston material		Ceramic	Resin	Ceramic	Resin	Resin	Resin
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	5 mm	4mm	5 mm	4 mm	4 mm	5 mm
	Anti loosen method	Snap ring	Screw fix pin+Snap ring	Snap ring	Screw fix pin+Snap ring	Screw fix pin+Snap ring	Screw fix pin+Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Split pin	Split pin	Split pin
Average weight (g)		107		117	-	-	-
Average weight (g) (kit for front 800 mm, w/ pad (Standard 1), w/o adapter, w/ 2 screws)		-	-	-	-	-	-
Note			* Available in OEM package only ** Available in OTC package only				* Only compatible with resin pad

Brake (Mechanical Disc Brake)

Series		TOURNEY TX
Model no.		BR-TX805
Color	1	Black
	2	-
	3	-
Brake type		Mechanical disc brake
ICE TECHNOLOGIES pad compatible caliper		-
Pad	Standard 1	B03S-RX Resin (w/o fin)
	Standard 2	-
	Option 1	-
	Option 2	-
Recommended brake lever		V-BRAKE BL (1.5-2.5 finger)
Recommended disc brake rotor		SM-RT10, SM-RT26
Mount type		Post type
Piston		1
Piston material		-
Caliper	MONO-BODY	-
	Material	Aluminum
	Finish	Painted
Caliper fixing screw	Material	Steel
	Tool size	5 mm
	Anti loosen method	Snap ring
Pad mount		Split pin
Average weight (g)		-
Note		

Crankset

Series		CUES	CUES	CUES	CUES	CUES	CUES
Model no.		FC-U8000-2	FC-U8000-1	FC-U6000-2	FC-U6000-2B	FC-U6010-2	FC-U6000-1
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		11	11/10/9	11/10/9 (36-22T), 10/9 (46-30T)	11/10/9	11	11/10/9
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Chain line (mm)		48.8	50	48.8	51.8	48.8	55 (30T, 32T), 52 (30T, 32T), 50 (40T, 42T)
O.L.D.	Thru (mm)	142	142	142	148	142	*148, 142 (30T, 32T), 142 (40T, 42T)
	QR/Nut (mm)	135	135	135	141	135	*141, 135 (30T, 32T), 135 (40T, 42T)
P.C.D. (mm)		96	96	96 (36-22T), 110 (46-30T)	96	110	96 (30T, 32T), 110 (40T, 42T)
Spider/gear arms		4	4	4	4	4	4
Chainring combination		46-32T	40T, 42T	36-22T, 46-30T	36-22T	46-32T	30T, 32T, 40T, 42T
Q-factor (mm)		180	180	180	180	180	180
Crank arm length (mm)	160	-	-	-	-	-	-
	165	-	-	-	-	-	✓ (chain line 55mm)
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	✓	✓	✓ (46-30T)	-	✓	✓ (40T, 42T)
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	-	-	✓	-
2-PIECE CRANKSET		-	-	✓	✓	-	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-MT801	BB-MT801	BB-MT501	BB-MT501	BB-MT501	BB-MT501
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	BB-MT501	-	BB-MT501	BB-MT501
	Press-Fit	BB-MT800-PA	BB-MT800-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/ES (mm)		-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	-	-	-	-	-	-
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		✓	✓	✓ (46-30T)	-	✓	✓ (40T, 42T)
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Steel
	Finish	Anodized	Anodized	Painted	Painted	Anodized	Painted
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	-	Steel	Steel	Steel	-
	Finish	Anodized	-	Painted	Painted	Painted	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Anodized	-	-	-	-
Inner ring fixing screw	Material	-	-	Stainless steel	Stainless steel	Stainless steel	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		✓	✓	-	-	✓	✓
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)				-	-	-	-
Note							* Chain line 55 mm spec. is for rear O.L.D 148(Thru)/141(QR) only (NEW)

Crankset

Series		CUES	CUES	CUES	CUES	CUES	CUES
Model no.		FC-U6030-2	FC-U6040-2	FC-U6030-1	FC-U6040-1	FC-U4000-2	FC-U4000-2B
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		10/9	10/9	11/10/9	11/10/9	11/10/9	11/10/9
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Chain line (mm)		47	47	50	50	48.8	51.8
O.L.D.	Thru (mm)	142	142	142	142	142	148
	QR/Nut (mm)	135	135	135	135	135	141
P.C.D. (mm)		110	110	110	110	Riveted	Riveted
Spider/gear arms		4	4	4	4	4	4
Chainring combination		46-32T, 50-34T	46-32T, 50-34T	40T, 42T	40T, 42T	36-22T, 40-26T	36-22T
Q-factor (mm)		152	152	152	152	178	178
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	-	✓	-	-	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	✓	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	✓ (40-26T)	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	✓	-	✓	-	-
2-PIECE CRANKSET		✓	-	✓	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	-	-
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	✓	✓
Recommended bottom bracket	Threaded (normal)	BB-RS501	BB-RS501	BB-RS501	BB-RS501	BB-UN101	BB-UN101
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	-	-
Axle length of BB-UN/ES (mm)		-	-	-	-	LL123	LL123
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	-	-
	73	-	-	-	-	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Finish	Painted	Painted	Painted	Painted	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Steel	Steel	-	-	Steel	Steel
	Finish	Painted	Painted	-	-	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-	-
	Finish	-	-	-	-	-	-
Inner ring fixing screw	Material	Stainless steel	Stainless steel	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-	-
Crank fixing screw included		-	-	-	-	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		-	-	-	-	-	-
Note				* Only available for crank arm length 170 mm/175 mm			

Crankset

Series		CUES	CUES	CUES	SHIMANO	SHIMANO ESSA	TOURNEY TX
Model no.		FC-U4010-2	FC-U4010-2B	FC-U4000-1	FC-UT400-1	FC-U2000-1	FC-TX801
Color	1	Series color	Series color	Series color	Black	Series color	Black
	2	-	-	-	-	-	Silver
Rear speeds		11/10/9 (36-22T, 40-26T), 10/9 (46-30T)	11/10/9	11/10/9	11/10/9	8/7	8/7/6
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG 8/7/6-speed	HG 8/7/6-speed
Chain line (mm)		48.8	51.8	52 (30T, 32T), 50 (40T, 42T)	52, 55	52 (32T), 50 (40T)	50
O.L.D.	Thru (mm)	142	148	148, 142 (30T, 32T), 142 (40T, 42T)	148, 142	148/142 (32T), 142 (40T)	142
	QR/Nut (mm)	135	141	141, 135 (30T, 32T), 135 (40T, 42T)	141, 135	141/135 (32T), 135 (40T)	135
P.C.D. (mm)		Riveted	Riveted	Riveted	Riveted	Riveted	Riveted
Spider/gear arms		4	4	4	4	4	4
Chainring combination		36-22T, 40-26T, 46-30T	36-22T	30T, 32T, 40T, 42T	32T	32T, 40T	42-32-22T, 48-38-28T
Q-factor (mm)		180	180	178	178	178	187.9
Crank arm length (mm)	160	-	-	-	-	-	-
	165	-	-	-	✓	-	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	✓ (40-26T, 46-30T)	-	✓ (40T, 42T)	-	- (32T), ✓ (40T)	✓
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		✓	✓	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	-	-	-	-
	OCTALINK	-	-	-	-	-	-
	Square	-	-	✓	✓	✓	✓
Recommended bottom bracket	Threaded (normal)	BB-MT501	BB-MT501	BB-UN101	BB-UN101	BB-UN101	BB-UN101
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	BB-MT501	-	BB-UN101-K	-	BB-UN101-K	BB-UN101-K
	Press-Fit	BB-MT500-PA	BB-MT500-PA	-	-	-	-
Axle length of BB-UN/ES (mm)		-	-	LL123	LL123	LL123	LL123
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	-	-	-	-	-	-
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		✓ (46-30T)	-	✓ (40T, 42T)	-	-	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	-	-
	Finish	Plated	Plated	Plated	Plated	-	-
Spider arm	Material	-	-	Aluminum	-	-	-
	Finish	-	-	Painted	-	-	-
Spider arm cover	Material	-	-	-	-	-	Resin
	Finish	-	-	-	-	-	Resin
Outer ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Middle ring	Material	-	-	-	-	-	Steel
	Finish	-	-	-	-	-	Painted
Inner ring	Material	Steel	Steel	-	-	-	Steel
	Finish	Painted	Painted	-	-	-	Painted
Outer/middle ring fixing bolt	Material	-	-	Stainless steel	-	-	-
	Finish	-	-	-	-	-	-
Inner ring fixing screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	-	✓	-	✓	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		-	-	-	-	-	-
Note							

Crankset

Series		SHIMANO	SHIMANO	SHIMANO	TOURNEY A070	TOURNEY
Model no.		FC-TY501-2	FC-TY501	FC-TY301	FC-A070	FC-A073
Color	1	Black	Black	Black	Series color	Series color
	2	-	Silver	-	-	-
Rear speeds		8/7	8/7/6	8/7/6	8/7	8/7
Compatible chain		HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed
Chain line (mm)		48.8	47.5/47.5 + t/50	47.5/47.5 + t/50	43.5	45
O.L.D.	Thru (mm)	142	142	142	142	142
	QR/Nut (mm)	135	135	135	135	135
P.C.D. (mm)		Riveted	Riveted	Riveted	Riveted	Riveted
Spider/gear arms		4	4	4	5	5
Chainring combination		46-30T	42-34-24T, 48-38-28T	42-34-24T, 48-38-28T	50-34T	50-39-30T
Q-factor (mm)		185.5	185.5	181.5	169	171.5
Crank arm length (mm)	160	-	-	-	-	-
	165	-	✓	-	✓	✓
	167.5	-	-	-	-	-
	170	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-
	175	✓	✓	✓	-	-
	177.5	-	-	-	-	-
	180	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-
	With chain guard	✓	✓ (integrated type)	✓ (integrated type)	✓	✓
	Without chain/bash guard	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	-	-	-
2-PIECE CRANKSET		-	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-
OCTALINK		-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-
Compatible bottom bracket type	Outboard	-	-	-	-	-
	OCTALINK	-	-	-	-	-
	Square	✓	✓	✓	✓	✓
Recommended bottom bracket	Threaded (normal)	BB-UN101	BB-UN101, BB-UN300	BB-UN101, BB-UN300	BB-UN300	BB-UN300
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	-	BB-UN101-K, BB-UN300K	BB-UN101-K, BB-UN300K	-	-
	Press-Fit	-	-	-	-	-
Axle length of BB-UN/ES (mm)		LL123	D-NL, *D-EL	D-NL, *D-EL	MM110	LL113
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓
	70	-	-	-	✓	✓
	73	✓	✓	✓	-	-
	83	-	-	-	-	-
Chain case compatible		-	✓	✓	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Spider arm	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Spider arm cover	Material	Resin	Resin	Resin	-	-
	Finish	Resin	- (black), Painted (silver)	-	-	-
Outer ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Middle ring	Material	-	Steel	Steel	-	Steel
	Finish	-	Painted	Painted	-	Painted
Inner ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Inner ring fixing screw	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	-
Crank fixing screw included		✓	✓ (Option)	-	-	-
Average weight (g) (170 mm, w/o bottom bracket)		-	-	-	-	-
Note			* Bottom bracket spec. for chain line 50 mm	150 mm spec. available for 42-34-22T (Black) * Bottom bracket Spec for Chain line 50 mm		

Bottom Bracket (HOLLOWTECH II)

Series		SHIMANO
Model no.		BB-UR400
HOLLOWTECH II bottom bracket	Threaded bottom bracket type	✓
	Press-Fit type	-
Threaded bottom bracket shell width (mm)	68	✓
	73	-
	83	-
Press-Fit bottom bracket shell width (mm)	84.5	-
	89.5	-
	92	-
	104.5	-
	107	-
Small ball bearing		-
Adapter	Material	Aluminum
	Finish	Painted
Spacer	Material	Resin
	Finish	-
Average weight (g)		-
Note		Not compatible for E-type FD with BB plate

Bottom Bracket

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

Bottom Bracket

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			BB-ES51-AK	BB-UN300	BB-UN300-K	BB-UN300-E	BB-UN101	BB-UN101-K
Structure	Standard		-	✓	-	-	✓	-
	E-type		-	-	-	✓	-	-
	For chain case		✓	-	✓	-	-	✓
Spindle	Hollow pipe		✓	-	-	-	-	-
	OCTALINK		✓	-	-	-	-	-
	Square type		-	✓	✓	✓	✓	✓
Axle length/shell width (mm)	107	68 (BC1.37)	-	✓	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	MM110	68 (BC1.37)	-	✓ **	✓	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	LL113	68 (BC1.37)	-	✓ **	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	✓	-	-	-	-
	113	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	D-H	68 (BC1.37)	-	✓ *	-	-	-	-
		70 (M36)	-	-	-	-	-	-
	YL117	68 (BC1.37)	-	-	-	-	-	-
	117.5	68 (BC1.37)	-	✓ **	✓	-	-	-
	118	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	XL118	68 (BC1.37)	-	✓ **	✓ *	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 mm	-	✓	-	-	-	-
	121	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	126	68 (BC1.37)	-	-	-	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	D-NL 122	68 (BC1.37)	-	✓ **	✓ **	-	✓ *	✓ *
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	✓ *	-	-	-	-
	D-EL 127	68 (BC1.37)	-	✓ *	✓	-	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	LL123	68 (BC1.37)	-	✓	✓ ***	✓	✓	✓ **
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	✓	-	-	✓	-
	123SP	68 (BC1.37)	-	-	-	-	-	-
	130	68 (BC1.37)	-	-	-	-	-	-
Spindle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted (black)	Bonderlube	Bonderlube	Bonderlube	-	-
Left hand adapter	Material		Resin	Aluminum	Aluminum	Aluminum	Resin	Resin
	Finish		-	-	-	-	-	-
Right hand adapter/ shell	Material		Steel	Aluminum/Steel	Aluminum/Steel	Aluminum/Steel	Resin/Steel	Resin/Steel
	Finish		Nickel Chrome	-	-	-	-	-
Note			For FC-M521 only	* w/ Crank arm fixing screws spec. only ** w/ Crank arm fixing screws spec. is available	* w/ Crank arm fixing screws spec. only ** w/ Crank arm fixing screws spec. is available *** w/ 0.7mm spacer	-	* w/ Crank arm fixing screws spec. is available	* w/ Crank arm fixing screws spec. is available ** w/ 0.7 mm spacer

Cassette

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-LG700-11	CS-LG400-11	CS-LG400-10
Type		LINKGLIDE	LINKGLIDE	LINKGLIDE
Rear speeds		11	11	10
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Combination name (Group name)		11-45T, 11-50T	11-45T, 11-50T	11-39T, 11-43T, 11-48T
Combination * Titanium gear	1	11-13-15-17-20-23-26-30-34-39-45T	11-13-15-17-20-23-26-30-34-39-45T	11-13-15-17-20-23-26-30-34-39T
	2	11-13-15-17-20-23-26-30-36-43-50T	11-13-15-17-20-23-26-30-36-43-50T	11-13-15-17-20-23-26-30-36-43T
	3	-	-	11-13-15-17-20-23-28-34-41-48T
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓*	✓*	✓*
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	1	-	-
	Finish	Painted	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	11	11	10
	Finish	Plated	Plated	Plated
Lock ring	Material	Aluminum	Steel	Steel
	Finish	Anodized	Plated	Plated
Average weight (g)		609 (11-50T)	-	-
Note		* Follow compatibility chart	* Follow compatibility chart	* Follow compatibility chart

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-LG300-10	CS-LG400-9	CS-LG300-9
Type		LINKGLIDE	LINKGLIDE	LINKGLIDE
Rear speeds		10	9	9
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Combination name (Group name)		11-39T, 11-48T	11-36T, 11-41T, 11-46T	11-36T, 11-41T, 11-46T
Combination * Titanium gear	1	11-13-15-17-20-23-26-30-34-39T	11-13-15-17-20-23-26-30-36T	11-13-15-17-20-23-26-30-36T
	2	11-13-15-17-20-23-28-34-41-48T	11-13-15-17-20-23-28-34-41T	11-13-15-17-20-23-28-34-41T
	3	-	11-13-15-17-20-23-28-36-46T	11-13-15-17-20-23-28-36-46T
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓*	✓*	✓*
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	10	9	9
	Finish	MnPO4	Plated	MnPO4
Lock ring	Material	Steel	Steel	Steel
	Finish	MnPO4	Plated	MnPO4
Average weight (g)		-	-	-
Note		* Follow compatibility chart	* Follow compatibility chart	* Follow compatibility chart

Cassette

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG400-9	CS-HG51-8	CS-HG50-8
Type		HG	HG	HG
Rear speeds		9	8	8
Compatible chain		HG 9-speed	IG, HG 8/7/6-speed	HG 8/7/6-speed
Combination name (Group name)		11-25T (G),11-28T (bg), 11-32T (ar), 11-34T (au), 11-36T (cb), 12-36T (bh)	11-28T (bf), 11-30T (an), 11-32T (aw)	11-28T (bf), 11-30T (an), 11-32T (aw), 11-34T (Ca), 12-23T (U), 12-25T (W), 13-26T (V)
Combination * Titanium gear	1	11-12-13-15-17-19-21-23-25T (G)	11-13-15-17-19-21-24-28T (bf)	11-13-15-17-19-21-24-28T (bf)
	2	11-12-13-14-16-18-21-24-28T (bg)	11-13-15-17-20-23-26-30T (an)	11-13-15-17-20-23-26-30T (an)
	3	11-12-14-16-18-21-24-28-32T (ar)	11-13-15-18-21-24-28-32T (aw)	11-13-15-18-21-24-28-32T (aw)
	4	11-13-15-17-20-23-26-30-34T (au)	-	11-13-15-18-21-24-28-34T (Ca)
	5	11-13-15-17-20-23-26-30-36T (cb)	-	12-13-14-15-17-19-21-23T (U)
	6	12-14-16-18-21-24-28-32-36T (bh)	-	12-13-15-17-19-21-23-25T (W)
	7	-	-	13-14-15-17-19-21-23-26T (V)
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓	✓	✓
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	0	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	0	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	9	8	8
	Finish	Ni-Ni plated	Chrome plated	Nickel plated
Lock ring	Material	Steel	Steel	Steel
	Finish	Nickel plated	Chrome plated	Nickel plated
Average weight (g)		-	-	-
Note				

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG400-8	CS-HG41-8	CS-HG31-8
Type		HG	HG	HG
Rear speeds		8	8	8
Compatible chain		IG, HG 8/7/6-speed	IG, HG 8/7/6-speed	IG, HG 8/7/6-speed
Combination name (Group name)		11-40T, 11-45T (NEW)	11-30T (an), 11-32T (aw), 11-34T (ao)	11-30T (an), 11-32T (aw), 11-34T (ao)
Combination * Titanium gear	1	11-13-15-18-22-27-33-40T	11-13-15-17-20-23-26-30T (an)	11-13-15-17-20-23-26-30T (an)
	2	11-13-15-18-22-27-35-45T	11-13-15-18-21-24-28-32T (aw)	11-13-15-18-21-24-28-32T (aw)
	3	-	11-13-15-17-20-23-26-34T (ao)	11-13-15-17-20-23-26-34T (ao)
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓	✓	✓
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	8	8	8
	Finish	Nickel plated	Nickel plated	Phosphate coated
Lock ring	Material	Steel	Steel	Steel
	Finish	Phosphate coated	Phosphate coated	Phosphate coated
Average weight (g)		-	-	-
Note				

Cassette

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG200-8	CS-HG300-8	CS-HG400-7
Type		HG	HG	HG
Rear speeds		8	8	7
Compatible chain		HG 8/7/6-speed	HG 8/7/6-speed	IG, HG 8/7/6-speed
Combination name (Group name)		12-32T (br)	11-45T	11-28T (ac)
Combination * Titanium gear	1	12-14-16-18-21-24-28-32T (br)	11-13-15-18-22-27-35-45T	11-13-15-18-21-24-28T (ac)
	2	-	-	-
	3	-	-	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓	✓	✓
	HG spline S (7-speed)	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	8	8	7
	Finish	Painted	Phosphate coated	Nickel plated
Lock ring	Material	Steel	Steel	Steel
	Finish	Painted	Phosphate coated	Phosphate coated
Average weight (g)		-	-	-
Note				

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG41-7	CS-HG20-7	CS-HG210-7
Type		HG	HG	HG
Rear speeds		7	7	7
Compatible chain		IG, HG 8/7/6-speed	IG, HG 8/7/6-speed	IG, HG 8/7/6-speed
Combination name (Group name)		11-28T (ac)	12-28T (E)	12-28T (bm), 12-32T (bp)
Combination * Titanium gear	1	11-13-15-18-21-24-28T (ac)	12-14-16-18-21-24-28T (E)	12-14-16-18-21-24-28T (bm)
	2	-	-	12-14-16-18-21-26-32T (bp)
	3	-	-	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	✓
	HG spline S (7-speed)	✓	✓	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	7	7	7
	Finish	Nickel plated	Brown+Black	Painted
Lock ring	Material	Steel	Steel	Steel
	Finish	Phosphate coated	Phosphate coated	Painted
Average weight (g)		-	-	-
Note				

Cassette

Series		SHIMANO
Model no.		CS-HG200-7
Type		HG
Rear speeds		7
Compatible chain		IG, HG 8/7/6-speed
Combination name (Group name)		12-28T (bm), 12-32T (bp)
Combination * Titanium gear	1	12-14-16-18-21-24-28T (bm)
	2	12-14-16-18-21-26-32T (bp)
	3	-
	4	-
	5	-
	6	-
	7	-
Spline type	MICRO SPLINE	-
	HG spline L2 (ROAD 12-speed dedicated)	-
	HG spline L (ROAD 12/11-speed)	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-
	HG spline S (7-speed)	✓
Carbon spider arm	QTY (pcs)	-
	Finish	-
Aluminum spider arm	QTY (pcs)	-
	Finish	-
Steel spider arm	QTY (pcs)	-
	Finish	-
Titanium gear	QTY (pcs)	-
	Finish	-
Aluminum gear	QTY (pcs)	-
	Finish	-
Steel gear	QTY (pcs)	7
	Finish	Painted
Lock ring	Material	Steel
	Finish	Painted
Average weight (g)		-
Note		

Multiple Freewheel

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		MF-TZ500-7	MF-TZ510-7	MF-TZ500-6	MF-TZ510-6
Type		HG/UG	HG/UG	HG/UG	HG/UG
Rear speeds		7	7	6	6
Compatible chain		HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed
Combination name (Group name)		14-28T, 14-34T	14-28T, 14-34T	14-28T	14-28T
Combination * Titanium gear	1	14-16-18-20-22-24-28T	14-16-18-20-22-24-28T	14-16-18-21-24-28T	14-16-18-21-24-28T
	2	14-16-18-20-22-24-34T	14-16-18-20-22-24-34T	-	-
	3	-	-	-	-
	4	-	-	-	-
	5	-	-	-	-
Spider arm	QTY (pcs)	-	-	-	-
Spoke protector	w/ Spoke protector	✓	✓	✓	✓
	w/o Spoke protector	✓	✓	✓	✓
Aluminum lock ring		-	-	-	-
Finish		Brown+Black	Zinc plating+Black coated	Brown+Black	Zinc plating+Black coated
Note					

Front Hub (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		HB-QB400	HB-QC400	HB-QC300	HB-TC500-12	HB-TC500-15	HB-TC500-15-B
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	-	-	-
	2 Hub shell	-	Silver	-	-	-	-
	2 Quick release	-	Black	-	-	-	-
Brake type		6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		100	100	100	100	100	110
Spoke hole	28H	-	-	✓	✓	✓	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		✓	✓	✓	-	-	-
Axle fixing method		Quick release	Quick release	Quick release	12 mm E-THRU	15 mm E-THRU	15 mm E-THRU
Quick release skewer length (mm)	129	-	-	✓	-	-	-
	133	✓	✓	✓	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	✓	-	-
	100 x 15	-	-	-	-	✓	-
	110 x 15	-	-	-	-	-	✓
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		58.1	60.2	60.2	60.2	60.2	70.2
Offset (mm)		5.3	5.3	5.3	5.3	5.3	5.3
P.C.D. left / right (mm)		61/61	44/44	44/44	44/44	44/44	44/44
Flange diameter left / right (mm)		70.6	52.8	52.8 (32H/36H), 53.8 (28H)	52.8	52.8	52.8
Seal		Contact	Contact	Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
Internal grease sleeve		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	-	-
	Cartridge	✓	✓	-	✓	✓	✓
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	-	-	-
	Finish	-	-	-	-	-	-
Quick release lever	Material	Aluminum	Aluminum	Steel	-	-	-
	Finish	Plated	Plated	Plated	-	-	-
Quick release housing	Material	Steel	Steel	Steel	-	-	-
	Finish	Plated	Plated	Plated	-	-	-
Quick release nut	Material	Steel+Resin	Steel+Resin	Steel+Resin	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Note							

Front Hub (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		HB-TX505	HB-TX506	HB-RM35
Color	1 Hub shell	Black	Black	Black
	1 Quick release	Black	Black	Black
	2 Hub shell	-	-	-
	2 Quick release	-	-	-
Brake type		CENTER LOCK disc brake	6-bolt disc brake	CENTER LOCK disc brake
O.L.D. (mm)		100	100	100
Spoke hole	28H	✓	-	✓
	32H	✓	✓	✓
	36H	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-
	Without	✓	-	✓
CENTER LOCK mount cover option		-	-	-
Axle fixing method		Quick release	Quick release	Quick release
Quick release skewer length (mm)	129	✓	-	-
	133	✓	✓	✓
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-
	100 x 15	-	-	-
	110 x 15	-	-	-
	110 x 20	-	-	-
Flange distance (mm)		60.2	58.1	60.2
Offset (mm)		5.3	5.3	5.5
P.C.D. left / right (mm)		44/44	61/61	44/44
Flange diameter left / right (mm)		52.8 (32H/36H), 53.8 (28H)	70.6	52.8
Seal		Contact	Contact	Contact
Internal grease sleeve		-	-	-
Bearing	Stainless ball	-	-	-
	Cup	-	-	-
	Cone	-	-	-
	Cartridge	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel
	Finish	-	-	-
Quick release lever	Material	Steel	Steel	Steel
	Finish	Plated	Plated	Plated
Quick release housing	Material	Steel	Steel	Steel
	Finish	Plated	Plated	Plated
Quick release nut	Material	Steel+Resin	Steel+Resin	Steel+Resin
	Finish	-	-	-
Disc brake rotor lock ring	Material	-	-	-
	Finish	-	-	-
Note		-	-	-

Front Hub (Rim Brake)

Series		SHIMANO	SHIMANO	SHIMANO	TOURNEY A070
Model no.		HB-NN300	HB-TX500-QR	HB-TX500-NT	HB-RM40
Color	1 Hub shell	Black	Black	Black	Black
	1 Quick release	-	Black	Black	Black
	2 Hub shell	-	Silver	Silver	Silver
	2 Quick release	-	Black	Black	Black
Brake type		Rim brake	Rim brake	Rim brake	Rim brake
O.L.D. (mm)		100	100	100	100
Spoke hole	28H	-	-	-	-
	32H	✓	✓	✓	✓
	36H	✓	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-	-
	Without	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-
Axle fixing method		Nut	Quick release	Nut	Quick release
Quick release skewer length (mm)	129	-	✓	-	✓
	133	-	✓	-	✓
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	-	-
	110 x 15	-	-	-	-
	110 x 20	-	-	-	-
Flange distance (mm)		71.6	71.6	71.6	71.6
Offset (mm)		0	0	0	0
P.C.D. left / right (mm)		38	38/38	38/38	38
Flange diameter (mm)		46	46	46	46
Seal		Contact	-	-	-
Internal grease sleeve		-	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	-	-	-	-
	Cone	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted (black)/Clear	Painted (black)/Clear	Anodized
Axle	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
Quick release lever	Material	-	Steel	-	Steel
	Finish	-	Plated	-	Plated
Quick release housing	Material	-	Steel	-	Steel
	Finish	-	Plated	-	Plated
Quick release nut	Material	-	Steel+Resin	-	Resin
	Finish	-	-	-	Black
Note					

FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-QC500-MS	FH-QC500-MS-B	FH-QB400-HM	FH-QC400-HM	FH-QC400-HM-B	FH-QC300-HM
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	Black	Black	Black
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		12	12	11/10/9/8/7	11/10/9/8/7	11/10/9/8/7	11/10/9/8/7
O.L.D. (mm)		135	141	135	135	141	135
Spoke hole	24H	-	-	-	-	-	-
	28H	✓	✓	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
10 tooth cog compatible		✓	✓	-	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	✓	-	✓
Axle fixing method		Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
Quick release skewer length (mm)	166	-	-	-	-	-	✓
	168	✓	-	✓	✓	-	-
	170	-	-	-	-	-	✓
	172	-	-	-	-	-	-
	173	✓	-	✓	✓	-	-
	174	-	✓	-	-	✓	-
	176	-	-	-	-	-	-
	178	-	✓	-	-	✓	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
	148 x 12	-	-	-	-	-	-
	150 x 12	-	-	-	-	-	-
	157 x 12	-	-	-	-	-	-
Flange distance (mm)		55.45	61.45	54.5	55.45	61.45	55.45
Offset (mm)		7.6	7.6	6.1	7.6	7.6	7.6
P.C.D. left / right (mm)		50.5/51.5	50.5/51.5	61.7/61.7	45/45	45	45/45
Flange diameter left / right (mm)		59.3/60.3	59.3/60.3	70.6/70.6	53.8/53.8	53.8	53.8
Spline type	MICRO SPLINE	✓	✓	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	✓	✓	✓	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		-	-	-	-	-	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	Contact	-	-	-	-
Internal grease sleeve		-	-	-	-	-	-
Digital adjustment system		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	-	-
	Cartridge	✓	✓	✓	✓	✓	-
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Plated	Plated	Plated	Plated
	Color	Black	Black	Black	Black	Black	Black
Quick release housing	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Plated	Plated	Plated	Plated
Quick release nut	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Note							

FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-TC600-HM-B	FH-TC600-MS-B	FH-TC500-HL	FH-TC500-HM	FH-TC500-HM-B	FH-TC500-MS
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		11/10/9/8/7	12	12/11	11/10/9/8/7	11/10/9/8/7	12
O.L.D. (mm)		148	148	142	142	148	142
Spoke hole	24H	-	-	-	-	-	-
	28H	✓	✓	✓	✓	✓	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	-	✓	✓	✓
10 tooth cog compatible		-	✓	-	-	-	✓
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	166	-	-	-	-	-	-
	168	-	-	-	-	-	-
	170	-	-	-	-	-	-
	172	-	-	-	-	-	-
	173	-	-	-	-	-	-
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	✓	✓	-	✓
	148 x 12	✓	✓	-	-	✓	-
	150 x 12	-	-	-	-	-	-
	157 x 12	-	-	-	-	-	-
Flange distance (mm)		61.1	61.1	55.45	55.45	61.45	55.45
Offset (mm)		7.19	7.19	7.6	7.6	7.6	7.6
P.C.D. left / right (mm)		60/61	60/61	50.5/51.5	50.5/51.5	50.5/51.5	50.5/51.5
Flange diameter left / right (mm)		68.8/69.8	68.8/69.8	59.3/60.3	59.3/60.3	59.3/60.3	59.3/60.3
Spline type	MICRO SPLINE	-	✓	-	-	-	✓
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	✓	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓	-	-	✓	✓	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		✓ (36 times/360 deg.)	✓ (36 times/360 deg.)	-	-	-	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth & Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	-	-	-
Digital adjustment system		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	-	-
	Cartridge	✓	✓	✓	✓	✓	✓
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
	Color	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Note							

FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-TC500-MS-B	FH-UR600	FH-RM35	FH-TX505-8	FH-TX506	FH-TY505-7
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	Black	Black	Black	Black	Black
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake	CENTER LOCK disc brake
Rear speeds		12	11/10 *	11/10/9/8/7	11/10/9/8/7	11/10/9/8/7	7
O.L.D. (mm)		148	135	135	135	135	135
Spoke hole	24H	-	-	-	-	-	-
	28H	✓	-	✓*	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
10 tooth cog compatible		✓	-	-	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	-	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	-	✓
CENTER LOCK mount cover option		-	✓	-	-	-	-
Axle fixing method		12 mm E-THRU	Quick release	Quick release	Quick release	Quick release	Quick release
Quick release skewer length (mm)	166	-	-	✓	✓	✓	✓
	168	-	✓	-	-	-	-
	170	-	-	✓	✓	✓	✓
	172	-	-	-	-	-	-
	173	-	✓	-	-	-	-
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
	148 x 12	✓	-	-	-	-	-
	150 x 12	-	-	-	-	-	-
	157 x 12	-	-	-	-	-	-
Flange distance (mm)		61.45	55.7	57.4	57.4	56	59.5
Offset (mm)		7.6	7.45	6.6	6.6	6.1	5.6
P.C.D. left / right (mm)		50.5/51.5	44.6/44.6	45/45	45/45	61/61	45/45
Flange diameter left / right (mm)		59.3/60.3	53.5/53.8	53.8	53.8	70.6	53.8
Spline type	MICRO SPLINE	✓	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	✓	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	✓	✓	✓	-
	HG spline S (7-speed)	-	-	-	-	-	✓
Engagement type		Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		-	-	-	-	-	-
Seal	Hub	Labyrinth+Contact	Contact	Contact	Contact	Contact	-
	FREEHUB body	Contact	Contact	-	-	-	-
Internal grease sleeve		-	✓	-	-	-	-
Digital adjustment system		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	Polish	-	-	-	-
	Cone	-	CBN	-	-	-	-
	Cartridge	✓	-	-	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	Aluminum	Steel	Steel	Steel	Steel
	Finish	-	Anodized	Plated	Plated	Plated	Plated
	Color	-	-	-	-	-	-
Quick release housing	Material	-	Aluminum	Steel	Steel	Steel	Steel
	Finish	-	Anodized	Plated	Plated	Plated	Plated
Quick release nut	Material	-	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
	Finish	-	Black	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Note			* Used with an additional spacer.	* 166 mm Quick release spec.			

FREEHUB (Rim Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-NN300-HM	FH-TX500-8-QR	FH-TX500-8-NT	FH-TY500-7-QR(135)	FH-TY500-7-QR(130)	FH-TY500-7-NT(135)
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	Black	Black	Black	Black	-
	2 Hub shell	-	Silver	Silver	-	-	-
	2 Quick release	-	Black	Black	-	-	-
Brake type		Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
Rear speeds		11/10/9/8/7	11/10/9/8/7	11/10/9/8/7	7	7	7
O.L.D. (mm)		135	135	135	135	130	135
Spoke hole	28H	-	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
10 tooth cog compatible		-	-	-	-		-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		Nut	Quick release	Nut	Quick release	Quick release	Nut
Quick release skewer length (mm)	161	-	-	-	-	✓	-
	166	-	✓	-	✓	-	-
	168	-	-	-	-	-	-
	170	-	✓	-	✓	-	-
	173	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
	148 x 12	-	-	-	-	-	-
	150 x 12	-	-	-	-	-	-
Flange distance (mm)		55.45	57.4	57.4	57.4	57.4	57.4
Offset (mm)		7.6	6.8	6.8	4.6	7.1	4.6
P.C.D. left / right (mm)		45	45	45	45	45	45
Flange diameter left / right (mm)		53.8	53.8	53.8	53.8	53.8	53.8
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓	✓	✓	-	-	-
	HG spline S (7-speed)	-	-	-	✓	✓	✓
Quick engagement		-	-	-	-		-
Seal	Hub	Contact	-	-	-	-	-
	FREEHUB body	-	-	-	-	-	-
Internal grease sleeve		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted (black)/Clear	Painted (black)/Clear	Painted (black)	Painted (black)	Painted (black)
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	Steel	-	Steel	Steel	-
	Finish	-	Plated	-	Plated	Plated	-
Quick release housing	Material	-	Steel	-	Steel	Steel	-
	Finish	-	Plated	-	Painted	Painted	-
Quick release nut	Material	-	Steel+Resin	-	Steel+Resin	Steel+Resin	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Note					O.L.D. 130 mm available	O.L.D. 135 mm available	O.L.D. 130 mm available

FREEHUB (Rim Brake)

Series		SHIMANO
Model no.		FH-TY500-7-NT(130)
Color	1 Hub shell	Black
	1 Quick release	-
	2 Hub shell	-
	2 Quick release	-
Brake type		Rim brake
Rear speeds		7
O.L.D. (mm)		130
Spoke hole	28H	-
	32H	✓
	36H	✓
10 tooth cog compatible		
External serration disc brake rotor lock ring	With	-
	Without	✓
Internal serration disc brake rotor lock ring	With	-
	Without	✓
CENTER LOCK mount cover option		-
Axle fixing method		Nut
Quick release skewer length (mm)	161	-
	166	-
	168	-
	170	-
	173	-
Thru axle (length x inner diameter ; mm)	135 x 10	-
	135 x 12	-
	142 x 12	-
	148 x 12	-
	150 x 12	-
Flange distance (mm)		57.4
Offset (mm)		7.1
P.C.D. left / right (mm)		45
Flange diameter left / right (mm)		53.8
Spline type	MICRO SPLINE	-
	HG spline L2 (ROAD 12-speed dedicated)	-
	HG spline L (ROAD 12/11-speed)	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-
	HG spline S (7-speed)	✓
Quick engagement		
Seal	Hub	-
	FREEHUB body	-
Internal grease sleeve		-
Bearing	Stainless ball	-
	Cup	-
	Cone	-
FREEHUB body	Material	Steel
	Finish	-
Hub shell	Material	Aluminum
	Finish	Painted (black)
Axle	Material	Steel
	Finish	-
Quick release lever	Material	-
	Finish	-
Quick release housing	Material	-
	Finish	-
Quick release nut	Material	-
	Finish	-
Disc brake rotor lock ring	Material	-
	Finish	-
Note		O.L.D. 135 mm available

Shift Switch

Series			SHIMANO
Model no.			SW-EN605-R
Switch type			Fixed button position
Position			Clamp band
Di2 connectivity wired	Di2 shifting		-
Di2 connectivity wireless	Di2 shifting		✓
Button numbers (pcs)			3
Master unit			-
Firmware update by E-TUBE PROJECT			-
SD50 port (pcs)			0
SD300 port (pcs)			0
SD50 connector (pcs)			0
SD300 connector (pcs)			0
Switch1	Default function		RD outward
	Multiple input	2 step	-
		Hold	✓
	Adjustable lever position		-
Switch2	Default function		RD inward
	Multiple input	2 step	-
		Hold	✓
	Adjustable lever position		-
Switch3	Default function		Shifting mode
	Multiple input	2 step	-
		Hold	✓
Suspension switch			-
Battery			CR1632 x 2
LED	Shimano system status		✓
Average weight (g)			
Note			-

Rear Derailleur

Series			CUES	CUES	CUES	CUES
Model no.			RD-U8050-SGS	RD-U8050-GS	RD-U6070	RD-U6050
Color	1		Series color	Series color	Series color	Series color
	2		-	-	-	-
Rear speeds			11/10	10	11	10
RD construction	SHIMANO SHADOW RD		✓	✓	✓	✓
	SHIMANO SHADOW RD+		-	-	-	-
	Double servo		-	-	-	-
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	✓	✓	✓	✓
		Direct mount	-	-	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	-	-	-	-
		Direct mount	-	-	-	-
	UDH standard		✓	✓	✓	✓
Max. front difference			Single	Single	Single	Single
Total capacity			39T	32T	39T	32T
Low sprocket	Max.		50T	43T	50T	43T
	Min.		45T	43T	50T	43T
Top sprocket	Max.		11T	11T	11T	11T
	Min.		11T	11T	11T	11T
Fluoric coated link bushings			2	2	2	2
Pulley	Guide pulley bearing		-	-	-	-
	Tension pulley bearing		-	-	-	-
	Teeth		11T	11T	11T	11T
	Screws material		Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓	✓	✓
Bracket	Material		Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted
B-axle	Hollow axle		✓	✓	✓	✓
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Painted	Painted	Painted	Painted
B-axle 2	Hollow axle		-	-	-	-
	Material		Aluminum	Aluminum	Stainless steel	Stainless steel
	Finish		Anodized	Anodized	Painted	Painted
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated
Plate body	Material		PA+GF	PA+GF	PA+GF	PA+GF
	Finish		-	-	-	-
Outer link	Material		PA+GF	PA+GF	PA+GF	PA+GF
	Finish		Painted	Painted	Painted	Painted
Inner link	Material		Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted
Outer plate	Material		Aluminum	Aluminum	Steel	Steel
	Finish		Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Steel	Steel
	Finish		Painted	Painted	Painted	Painted
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated
Di2 connectivity wired	Di2 shifting		✓	✓	✓	✓
Di2 connectivity wireless	Di2 shifting		✓	✓	-	-
	Bluetooth® LE	Cycling power	-	-	-	-
	ANT+	Bicycle power	-	-	-	-
	Bluetooth® LE custom (*1)	Adjust mode information	✓	✓	-	-
		Di2 battery level	✓	✓	-	-
		Gear position	✓	✓	-	-
		SHIMANO E-BIKE SYSTEMS data items (*3)	-	-	-	-
		Compatible with E-TUBE RIDE	✓	✓	-	-
		Compatible with E-TUBE PROJECT	✓	✓	-	-
	ANT private (*2)	Adjust mode information	✓	✓	-	-
		Di2 battery level	✓	✓	-	-
		Gear position	✓	✓	-	-
		SHIMANO E-BIKE SYSTEMS data items (*3)	-	-	-	-
Firmware update by E-TUBE PROJECT			✓	✓	✓	✓
SD50 port (pcs)			0	0	0	0
SD300 port (pcs)			1 *	1 *	1	1
SD50 connector (pcs)			0	0	0	0
SD300 connector (pcs)			0	0	0	0
LED for system status			✓	✓	✓	✓
Charging port			-	-	-	-
Charging cable			-	-	-	-
Average weight (g)			-	-	454	449
Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile. *3 Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.			* Compatible with EW-PS300	* Compatible with EW-PS300		

LIFESTYLE Comfort

LIFESTYLE Comfort

		Page	
	Internal Geared Hub	236	SG
	Chain Tensioner	241	CT
	Sprocket	242	CS
	Shifter	243	SL
	Brake Lever (Hydraulic Disc Brake)	247	BL
	Brake Lever	248	BL
	Brake (Hydraulic Disc Brake)	249	BR
	Brake (Roller Brake)	250	RB
	Crankset	252	FC
	Front Hub (Roller Brake)	253	HB
	FREEHUB (Roller Brake)	254	FH
	FREEHUB (Band Brake)	255	FH
	Head Parts	255	HP
<Di2 spec.>	Internal Geared Hub	256	SG
	Motor Unit	257	MU

Internal Geared Hub

Series		ALFINE	ALFINE	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-S7001-11	SG-S7001-8	SG-C7002-5CD	SG-C7000-5V	SG-C7000-5R	SG-C7000-5C
Function name		INTER-11	INTER-8	INTER-5E	INTER-5E	INTER-5E	INTER-5E
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Brake type	Mount type	CENTER LOCK disc brake	CENTER LOCK disc brake	Coaster brake, Special disc brake mount for SM-RTC60	V-BRAKE	INTER-M	Coaster brake
	Recommended model	-	BR-S7000	BR-M6100, BR-MT420	-	BR-C6000, BR-C3010, BR-C3000	-
Rear speeds		11	8	5	5	5	5
Gear ratio	Total	409%	307%	263%	263%	263%	263%
	1	0.527	0.527	1	1	1	1
	2	0.681	0.644	1.277	1.277	1.277	1.277
	3	0.770	0.748	1.622	1.622	1.622	1.622
	4	0.878	0.851	2.07	2.07	2.07	2.07
	5	0.995	1	2.63	2.63	2.63	2.63
	6	1.134	1.223	-	-	-	-
	7	1.292	1.419	-	-	-	-
	8	1.462	1.615	-	-	-	-
	9	1.667	-	-	-	-	-
	10	1.888	-	-	-	-	-
	11	2.153	-	-	-	-	-
Shifting structure		Top-normal	Top-normal	Top-normal	Top-normal	Top-normal	Top-normal
Silent clutch		✓	✓	✓	✓	✓	✓
Gear change support mechanism		✓	✓	✓	✓	✓	✓
Shifting POWER MODULATOR		✓	✓	✓	✓	✓	✓
Driving efficiency		High	High	HIGH	High	High	High
w/ Left hand dust cap		-	-	-	✓	-	-
O.L.D. (mm)		135	135	135	135	135	135
Spoke size		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	-	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	-	-	-
	184	-	-	-	-	-	-
	187	✓	✓	✓	✓	✓	✓
	193	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Flange distance (mm)		57.3	57.3	58.3	58.3	58.3	58.3
Flange diameter (mm)		104.3	104.3	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset (mm)		3.2	3.2	3.7	3.2	3.2	3.7
P.C.D. left / right (mm)		92.6	92.6	92.6	92.6	92.6	92.6
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Average weight (g)		1665	1670	2010	1670	1670	1970
Note		-	-		-	-	-

Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-C7000-5D	SG-C6011-8V	SG-C6011-8R	SG-C6001-8V	SG-C6001-8R	SG-C6001-8C
Function name		INTER-5E	INTER-8	INTER-8	INTER-8	INTER-8	INTER-8
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Brake type	Mount type	CENTER LOCK disc brake	V-BRAKE	INTER-M	V-BRAKE	INTER-M	Coaster brake
	Recommended model	-	-	BR-C6000, BR-C3010, BR-C3000	-	BR-C6000, BR-C3010, BR-C3000	-
Rear speeds		5	8	8	8	8	8
Gear ratio	Total	263%	307%	307%	307%	307%	307%
	1	1	0.527	0.527	0.527	0.527	0.527
	2	1.277	0.644	0.644	0.644	0.644	0.644
	3	1.622	0.748	0.748	0.748	0.748	0.748
	4	2.07	0.851	0.851	0.851	0.851	0.851
	5	2.63	1	1	1	1	1
	6	-	1.223	1.223	1.223	1.223	1.223
	7	-	1.419	1.419	1.419	1.419	1.419
	8	-	1.615	1.615	1.615	1.615	1.615
	9	-	-	-	-	-	-
	10	-	-	-	-	-	-
	11	-	-	-	-	-	-
Shifting structure		Top-normal	Low-normal	Low-normal	Low-normal	Low-normal	Low-normal
Silent clutch		✓	✓	✓	✓	✓	✓
Gear change support mechanism		✓	✓	✓	✓	✓	✓
Shifting POWER MODULATOR		✓	✓	✓	✓	✓	✓
Driving efficiency		High	High	High	Standard	Standard	Standard
w/ Left hand dust cap		-	✓	-	✓	-	-
O.L.D. (mm)		135	132	132	132	132	132
Spoke size		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	-	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
	Others	-	-	40H	-	40H	-
Axle length (mm)	182	-	-	-	-	-	-
	184	-	✓	✓	✓	✓	✓
	187	✓	-	-	-	-	-
	193	-	-	-	-	-	-
	Others	-	-	-	203	203	-
Flange distance (mm)		57.3	58.3	58.3	58.3	58.3	58.3
Flange diameter (mm)		105.2	105.2	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset (mm)		3.2	2.7	2.7	2.7	2.7	2.55
P.C.D. left / right (mm)		92.6	92.6	92.6	92.6	92.6	92.6
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (g)		1650	1685	1660	1735	1710	2040
Note		-	-	-	-	-	-

Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-C6001-8D	SG-C6001-8CD	SG-C3001-7R	SG-C3001-7C	SG-C3001-7C-DX	SG-C3001-7D
Function name		INTER-8	INTER-8	INTER-7	INTER-7	INTER-7	INTER-7
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Brake type	Mount type	CENTER LOCK disc brake	Coaster brake, Special disc brake mount for SM-RTC60	INTER-M	Coaster brake	Coaster brake	CENTER LOCK disc brake
	Recommended model	-	-	BR-C3010, BR-C3000	-	-	-
Rear speeds		8	8	7	7	7	7
Gear ratio	Total	307%	307%	244%	244%	244%	244%
	1	0.527	0.527	0.632	0.632	0.632	0.632
	2	0.644	0.644	0.741	0.741	0.741	0.741
	3	0.748	0.748	0.843	0.843	0.843	0.843
	4	0.851	0.851	0.989	0.989	0.989	0.989
	5	1	1	1.145	1.145	1.145	1.145
	6	1.223	1.223	1.335	1.335	1.335	1.335
	7	1.419	1.419	1.545	1.545	1.545	1.545
	8	1.615	1.615	-	-	-	-
	9	-	-	-	-	-	-
	10	-	-	-	-	-	-
	11	-	-	-	-	-	-
Shifting structure		Low-normal	Low-normal	Low-normal	Low-normal	Low-normal	Low-normal
Silent clutch		✓	✓	-	-	-	-
Gear change support mechanism		✓	✓	-	-	-	-
Shifting POWER MODULATOR		✓	✓	-	-	-	-
Driving efficiency		Standard	Standard	Standard	Standard	Standard	Standard
w/ Left hand dust cap		-	-	-	-	-	-
O.L.D. (mm)		135	135	130	127	127	135
Spoke size		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	-	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	✓	-	-	-
	184	-	-	-	-	✓	-
	187	✓	✓	-	-	-	✓
	193	-	-	-	-	-	-
	Others	-	-	201	176	176	-
Flange distance (mm)		57.3	58.3	54.6	56.2	56.2	54.6
Flange diameter (mm)		105.2	105.2	99.6	92.5	92.5	99.6
Flange width (mm)	Right	3.2	3.2	3.2	2.3	2.3	3.2
	Left	3.2	3.2	3.2	2.7	2.7	3.2
Offset (mm)		3.1	4	3.85	4.6	4.6	2.5
P.C.D. left / right (mm)		92.6	92.6	87	83.5	83.5	87
Hub shell	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Aluminum
	Finish	Painted	Painted	Painted	Plated	Plated+Painted(clear)	Painted
Average weight (g)		1730	2090	1495	1915	1915	1470
Note		-	-	*European market only	*European market only	-	*European market only

Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-5R30	SG-5R30-VS	SG-5R35-VS	SG-3R75-B	SG-3R40	SG-3R42
Function name		INTER-5	INTER-5	INTER-5	INTER-3	INTER-3	INTER-3
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	-	-	Black	-	-	-
	3	-	-	-	-	-	-
Brake type	Mount type	INTER-M	V-BRAKE	V-BRAKE	INTER-M	INTER-M	INTER-M
	Recommended model	BR-C3010, BR-C3000	-	-	BR-C3010, BR-C3000	BR-C3010, BR-C3000	BR-C3010, BR-C3000
Rear speeds		5	5	5	3	3	3
Gear ratio	Total	206%	206%	206%	158%	186%	186%
	1	0.750	0.750	0.750	0.632	0.733	0.733
	2	1.001	1.001	1.001	0.741	1.000	1.000
	3	1.159	1.159	1.159	1.000	1.364	1.364
	4	1.335	1.335	1.335	-	-	-
	5	1.545	1.545	1.545	-	-	-
	6	-	-	-	-	-	-
	7	-	-	-	-	-	-
	8	-	-	-	-	-	-
	9	-	-	-	-	-	-
	10	-	-	-	-	-	-
	11	-	-	-	-	-	-
Shifting structure		Low-normal	Low-normal	Low-normal	Low-normal	Low-normal	Low-normal
Silent clutch		✓	✓	✓	✓	-	-
Gear change support mechanism		-	-	-	-	✓	✓
Shifting POWER MODULATOR		-	-	-	-	✓	✓
Driving efficiency		Standard	Standard	Standard	HIGH	Standard	Standard
w/ Left hand dust cap		-	✓	✓	-	-	-
O.L.D. (mm)		132	132	132	122	120/127	120
Spoke size		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	-	-	-	-	✓	✓
	32H	✓	✓	✓	-	✓	-
	36H	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	-	✓	✓
	184	✓	✓	✓	-	✓	-
	187	-	-	-	-	-	-
	193	-	-	-	✓	-	-
	Others	210	210	-	174/198/200	170/177/189/192	192
Flange distance (mm)		54.6	54.6	54.6	51.1	53.5	53
Flange diameter (mm)		86	86	86	92.5	84	70
Flange width (mm)	Right	2.3	2.3	2.3	2.3	2.3	3.0
	Left	2.5	2.5	2.5	2.7	2.3	3.0
Offset (mm)		0.3	0.3	0.3	3.6	0.8 (120mm axle)/2.5	0.8
P.C.D. left / right (mm)		76	76	76	83.5	74	60
Hub shell	Material	Steel	Steel	Aluminum	Steel	Steel	Steel
	Finish	Plated	Plated	Painted	Plated	Plated	Plated
Average weight (g)		1305	1330	1255	1315	885	872
Note		*Japan market only	*Japan market only	*Japan market only	-	-	Specification for Japan market

Internal Geared Hub

Series		NEXUS	NEXUS
Model no.		SG-3C41	SG-3D55
Function name		INTER-3	INTER-3
Color	1	Silver	Black
	2	-	-
	3	-	-
Brake type	Mount type	Coaster brake	CENTER LOCK disc brake
	Recommended model	-	-
Rear speeds		3	3
Gear ratio	Total	186%	186%
	1	0.733	0.733
	2	1.000	1.000
	3	1.364	1.364
	4	-	-
	5	-	-
	6	-	-
	7	-	-
	8	-	-
	9	-	-
	10	-	-
	11	-	-
Shifting structure		Low-normal	Low-normal
Silent clutch		-	✓
Gear change support mechanism		✓	✓
Shifting POWER MODULATOR		✓	✓
Driving efficiency		Standard	Standard
w/ Left hand dust cap		-	-
O.L.D. (mm)		120/127	135
Spoke size		#13/#14	#13/#14
Spoke hole	28H	✓	-
	32H	-	✓
	36H	✓	✓
	Others	-	-
Axle length (mm)	182	-	-
	184	-	-
	187	-	-
	193	-	✓
	Others	168/175/178	-
Flange distance (mm)		57.5	53.5
Flange diameter (mm)		67.5	77.6
Flange width (mm)	Right	2.3	3.2
	Left	2.3	3.2
Offset (mm)		1.2/2.7 (175mm axle)	1.7
P.C.D. left / right (mm)		59	65
Hub shell	Material	Steel	Aluminum
	Finish	Plated	Painted
Average weight (g)		1120	945
Note		-	-

Chain Tensioner

Series		ALFINE	ALFINE
Model no.		CT-S500	CT-S510
Color	1	Silver	-
	2	Black	-
	3	-	Silver+Black
Rear speeds		Single	Single
Compatible chain		HG 9-speed	HG 9-speed (CS-S500), HG 8/7/6-speed (SM-GEAR)
Compatible sprocket		CS-S500	CS-S500 SM-GEAR
Max. front difference		16T	-
Max. rear sprocket		20T	20T (CS-S500), 23T (SM-GEAR)
Min. rear sprocket		18T	16T (SM-GEAR), 18T (CS-S500)
Dropout		Vertical drop end type	Vertical drop end type
Mount		Derailleur hanger	Hub axle
Structure		Double pulley	Single pulley
Tensioner arm	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Note			

Sprocket

Series		ALFINE	NEXUS	NEXUS
Model no.		CS-S500	CS-C7000	SM-GEAR
Chain guard	With	✓	-	-
	Without	✓	✓	✓
Gear teeth	14T	-	-	- (2.3 mm), ✓ (3.0 mm)
	16T	-	-	✓ (2.3 mm), ✓ (3.0 mm)
	18T	✓ (w/ and w/o guard)	-	✓ (2.3 mm), ✓ (3.0 mm)
	19T	-	-	✓ (2.3 mm), - (3.0 mm)
	20T	✓ (w/ and w/o guard)	-	✓ (2.3 mm), ✓ (3.0 mm)
	21T	-	-	✓ (2.3 mm), ✓ (3.0 mm)
	22T	-	-	✓ (2.3 mm), ✓ (3.0 mm)
	23T	-	-	✓ (2.3 mm), - (3.0 mm)
	24T	-	✓	-
	27T	-	✓	-
	30T	-	✓	-
Gear thickness (mm)		2.0	2.3	2.3/3.0
Recommended chain	Super Narrow HG 9-speed	✓	-	-
	HG 8-speed (1/2 inch x 3/32 inch)	-	✓	✓ (2.3 mm)
	1/2 inch x 1/8 inch	-	-	✓ (3.0 mm)
Gear	Material	Steel	Steel	Steel
	Finish	Chrome plated	Manganese phosphate coated	Chrome plated, Manganese, phosphate coated
Note				

Shifter

Series			ALFINE	ALFINE	ALFINE	NEXUS	NEXUS	NEXUS
Model no.			SL-S700	SL-S7000-8	SL-S503	SL-C6000-8	SL-7S50	SL-C3000-7
Color	1		Silver	Silver	Silver	Silver	Silver	Silver
	2		Black	Black	Black	Black	Black	Black
	3		-	-	-	-	-	-
Shifter type			RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	REVOSHIFT	RAPIDFIRE PLUS	REVOSHIFT
Top-normal			✓	✓	-	-	-	-
Front speeds			-	-	-	-	-	-
Rear speeds			11	8	8	8	7	7
Compatible rear derailleur/internal geared hub type			SG-S7001-11	SG-S7000-8, SG-S7001-8	SG-S501, NEXUS INTER-8	NEXUS INTER-8	NEXUS INTER-7	NEXUS INTER-7
Compatible front derailleur type			-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever cable adjust			✓	✓	✓	✓	✓	✓
Max. multiple shifts (main lever/rear)			2	1	1	7	1	6
Release function	MULTI RELEASE		✓	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		✓	✓	✓	-	✓	-
OPTICAL GEAR DISPLAY	With		Above handlebar	Above handlebar	Above handlebar	Window	Window	Window
	With (removable)		-	-	-	-	-	-
	Without		-	-	-	-	-	-
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Aluminum	Aluminum	Aluminum	Resin	Aluminum	Resin
	Finish		Painted	Painted	Painted	Resin	Painted	Resin
Main lever body	Material		Steel+Resin	Steel+Resin	Steel+Resin	-	Steel+Resin	-
	Finish		-	-	-	-	-	-
Release lever body	Material		Steel+Resin	Steel+Resin	Steel+Resin	-	Steel+Resin	-
	Finish		-	-	-	-	-	-
Base cover	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Clamping diameter (mm)			22.2	22.2	22.2	22.2	22.2	22.2
Average weight (g)			-	-	-	-	-	-
Note							*European market only	*European market only

Shifter

Series			NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.			SL-C7000-5	SL-5S50	SL-5S30	SL-5S30-A	SL-3S42E	SL-C2010-3
Color	1		Silver	Silver	Silver	Silver	-	Black
	2		Black	Black	Black	Black	Black	-
	3		-	-	White	White	-	-
Shifter type			REVOSHIFT	RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT	REVOSHIFT	RAPIDFIRE PLUS
Top-normal			✓	-	-	-	-	-
Front speeds			-	-	-	-	-	-
Rear speeds			5	5	5	5	3	3
Compatible rear derailleur/internal geared hub type			NEXUS INTER-5E	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-3	NEXUS INTER-3
Compatible front derailleur type			-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever cable adjust			✓	✓	✓	✓	-	✓
Max. multiple shifts (main lever/rear)			4	1	4	4	2	1
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		Window	Window	Window	Window	Window	Below handlebar
	With (removable)		-	-	-	-	-	-
	Without		-	-	-	-	-	-
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Resin	Aluminum	Resin	Resin	Resin	Aluminum
	Finish		Resin	Painted	Resin	Resin	Resin	Painted
Main lever body	Material		-	-	-	-	-	Steel+Resin
	Finish		-	-	-	-	-	-
Release lever body	Material		-	-	-	-	-	Steel+Resin
	Finish		-	-	-	-	-	-
Base cover	Material		Resin	Resin	Resin	Resin	Resin	-
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	-
		Steel	-	-	-	-	-	✓
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP40	SP outer for IHG
Clamping diameter (mm)			22.2	22.2	22.2	22.2	22.2	22.2
Average weight (g)			-	-	-	-	-	-
Note			w/ Rubber bellows spec. is available					

Shifter

Series			NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.			SL-3S41E	SL-3S35E	SL-3S58	SL-3S42	SL-3S43	SL-3S90
Color	1		-	-	Silver	Silver	Silver	Gray
	2		Black	Black	Black	Black	Black	Black
	3		-	-	White	-	White	-
Shifter type			REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	Piano-touch
Top-normal			-	-	-	-	-	-
Front speeds			-	-	-	-	-	-
Rear speeds			3	3	3	3	3	3
Compatible rear derailleur/internal geared hub type			NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3
Compatible front derailleur type			-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever cable adjust			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			2	2	2	2	2	2
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		Window	Dial	Window	Window	Window	Dial
	With (removable)		-	-	-	-	-	-
	Without		-	-	-	-	-	-
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Resin	Aluminum	Resin	Resin	Resin	Steel
	Finish		Resin	Painted	Resin	Resin	Resin	Painted
Main lever body	Material		-	-	-	-	-	Steel+Resin
	Finish		-	-	-	-	-	-
Release lever body	Material		-	-	-	-	-	Steel+Resin
	Finish		-	-	-	-	-	-
Base cover	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	-	-	-	-
		Steel	-	-	✓	✓	✓	✓
Recommended shift lever outer casing			OT-SP40	OT-SP40	OT-SP40	OT-SP40	SP outer for IHG	SP outer for IHG
Clamping diameter (mm)			22.2	22.2	22.2	22.2	22.2	22.2
Average weight (g)			-	-	-	-	-	-
Note								

Shifter

Series			NEXUS
Model no.			SL-3S91J
Color	1		-
	2		-
	3		White
Shifter type			Piano-touch
Top-normal			-
Front speeds			-
Rear speeds			3
Compatible rear derailleur/internal geared hub type			NEXUS INTER-3
Compatible front derailleur type			-
Shift lever position adjust			-
Shift lever cable adjust			-
Max. multiple shifts (main lever/rear)			2
Release function	MULTI RELEASE		-
	INSTANT RELEASE		-
	2-WAY RELEASE		-
OPTICAL GEAR DISPLAY	With		Dial
	With (removable)		-
	Without		-
Multi-bearing construction			-
Shift lever bracket	Material		Steel
	Finish		Painted
Main lever body	Material		Steel+Resin
	Finish		-
Release lever body	Material		Steel+Resin
	Finish		-
Base cover	Material		Resin
	Finish		-
Shift lever cable	Inner cable	Polymer-coated cable	-
		OPTISLICK	-
		SIL-TEC	-
		Stainless	-
		Steel	✓
Recommended shift lever outer casing			SP outer for IHG
Clamping diameter (mm)			22.2
Average weight (g)			-
Note			

Brake Lever (Hydraulic Disc Brake)

Series		ALFINE
Model no.		BL-S7000
Brake type		Hydraulic disc brake
Lever size (finger)		3
Color	1	Series black
	2	Series silver
	3	-
Brake hose (kit)		SM-BH59-JK-SS
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
J-Kit spec (for OEM)		✓
SERVO WAVE		-
Reach adjust	Toolless	-
	Tool	✓
Free stroke adjust		-
Compatible shifter mount	Clamp band	✓
	I-SPEC B	-
	I-SPEC II	✓
	I-SPEC EV	-
Shifter rotation angle adjust range (I-SPEC EV ; deg.)		-
Clamp band	Open clamp	✓
Recommended brake caliper		BR-S7000
Oil		SHIMANO mineral
Funnel bleeding		✓
Clamp screw	Material	Stainless steel
	Finish	-
Brake lever	Material	Aluminum
	Finish	Anodized
Master cylinder	Material	Aluminum
	Finish	Painted
Average weight (g)		-
Note		

Brake Lever

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

Brake (Hydraulic Disc Brake)

Series		ALFINE
Model no.		BR-S7000
Color	1	Series black
	2	Series silver
	3	-
Brake type		Hydraulic disc brake
Brake hose (kit)		SM-BH59-JK-SS
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
J-Kit spec (for OEM)		✓
ICE TECHNOLOGIES pad compatible caliper		-
Pad	Standard 1	G05S-RX Resin (w/o fin)
	Standard 2	-
	Option 1	-
	Option 2	-
Fixing screw spec for rear mount	10 mm mount	-
	15 mm mount	-
	20 mm mount	-
	25 mm mount	-
	30 mm mount	-
	35 mm mount	-
Recommended brake lever		BL-S7000
Recommended disc brake rotor		SM-RT64 SM-RT66
Compatible rotor size	140 mm (SS)	✓
	160 mm (S)	✓
	180 mm (M)	✓
	203 mm (L)	✓
	220 mm (LL)	-
Oil		SHIMANO mineral
ONE WAY BLEEDING		✓
Mount type		Post type
Piston		2
Piston material		Resin
Caliper	MONO-BODY	-
	Material	Aluminum
	Finish	Painted
Caliper fixing screw	Material	Steel
	Tool size	5 mm
	Anti loosen method	Snap ring
Pad mount		Split pin (stainless steel)
Average weight (g)		-
Note		

Brake (Roller Brake)

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		BR-C6061-F	BR-C6060-F	BR-C6051-F	BR-C6050-F	BR-C6001-F	BR-C6001-R
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	-	-	-	-	-	-
Front		✓	✓	✓	✓	✓	-
Rear		-	-	-	-	-	✓
Structure type		Hyper	Hyper	Hyper	Hyper	Hyper	Hyper
Braking power (*1)		1.5	1.5	1.5	1.5	1.5	1.2
Cooling fin diameter (mm)		138	138	138	138	150	150
Heat dissipation (*1)		1.4	1.4	1.4	1.4	1.4	1.4
Without cooling fin		-	-	-	-	-	-
With POWER MODULATOR function		✓	✓	✓	✓	-	-
Wheel size (inch)/Outer diameter of tire (mm)	26-28 inch	-	-	-	-	✓	✓
	660-712 mm	✓	✓	✓	✓	-	-
	20-28 inch	-	-	-	-	-	-
	16-28 inch	-	-	-	-	-	-
	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	16-20 inch	-	-	-	-	-	-
Roller brake modulator grade	More than 26 inch high	-	-	-	-	✓	-
	More than 26 inch standard	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	Range of overall allowable mass for modulator (kg) * mass = bicycle + rider + luggage	100-130	100-130	70-100	70-100	-	-
Inner cable quick release		✓	✓	✓	✓	✓	✓
Note*1 Performance index rating uses BR-C3000-R brake unit as a reference value of 1. Testing condition.		SUS CAP, Except Japan market	Except Japan market	SUS CAP, Except Japan market	Except Japan market	SUS CAP	SUS CAP

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		BR-C6000-F	BR-C6000-F-DX	BR-C6000-R	BR-C6000-R-DX	BR-C3011-F	BR-C3011-R
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	-	-	-	-	-	-
Front		✓	✓	-	-	✓	-
Rear		-	-	✓	✓	-	✓
Structure type		Hyper	Hyper	Hyper	Hyper	Normal	Normal
Braking power (*1)		1.5	1.5	1.2	1.2	1.3	1
Cooling fin diameter (mm)		150	150	150	150	140	140
Heat dissipation (*1)		1.4	1.4	1.4	1.4	1.2	1.2
Without cooling fin		-	-	-	-	-	-
With POWER MODULATOR function		-	-	-	-	-	-
Wheel size (inch)/Outer diameter of tire (mm)	26-28 inch	✓	✓	✓	✓	✓	✓
	660-712 mm	-	-	-	-	-	-
	20-28 inch	-	-	-	-	-	-
	16-28 inch	-	-	-	-	-	-
	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	16-20 inch	-	-	-	-	-	-
Roller brake modulator grade	More than 26 inch high	✓	✓	-	-	-	-
	More than 26 inch standard	-	-	-	-	✓	-
	20-24 inch	-	-	-	-	-	-
	Range of overall allowable mass for modulator (kg) * mass = bicycle + rider + luggage	-	-	-	-	-	-
Inner cable quick release		✓	✓	✓	✓	✓	✓
Note*1 Performance index rating uses BR-C3000-R brake unit as a reference value of 1. Testing condition.						SUS CAP	SUS CAP

Brake (Roller Brake)

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		BR-C3010-F	BR-C3010-R	BR-C3001-F	BR-C3001-R	BR-C3000-F	BR-C3000-F-DX
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	-	-	Black	Black	Black	-
Front		✓	-	✓	-	✓	✓
Rear		-	✓	-	✓	-	-
Structure type		Normal	Normal	Normal	Normal	Normal	Normal
Braking power (*1)		1.3	1.0	1.3	1	1.3	1.3
Cooling fin diameter (mm)		140	140	122	122	122	122
Heat dissipation (*1)		1.2	1.2	1	1	1.0	1.0
Without cooling fin		-	-	-	-	-	-
With POWER MODULATOR function		-	-	-	-	-	-
Wheel size (inch)/Outer diameter of tire (mm)	26-28 inch	✓	✓	✓	✓	✓	✓
	660-712 mm	-	-	-	-	-	-
	20-28 inch	-	-	-	-	-	-
	16-28 inch	-	-	-	-	-	-
	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	16-20 inch	-	-	-	-	-	-
Roller brake modulator grade	More than 26 inch high	-	-	-	-	-	-
	More than 26 inch standard	✓	-	✓	-	✓	✓
	20-24 inch	-	-	-	-	-	-
	Range of overall allowable mass for modulator (kg) * mass = bicycle + rider + luggage	-	-	-	-	-	-
Inner cable quick release		✓	✓	✓	✓	✓	✓
Note*1 Performance index rating uses BR-C3000-R brake unit as a reference value of 1. Testing condition.				SUS CAP	SUS CAP		

Series		NEXUS	NEXUS	NEXUS
Model no.		BR-C3000-R	BR-C3000-R-DX	BR-IM31-R
Color	1	Silver	Silver	Silver
	2	Black	-	-
Front		-	-	-
Rear		✓	✓	✓
Structure type		Normal	Normal	Normal
Braking power (*1)		1.0	1.0	0.9
Cooling fin diameter (mm)		122	122	90
Heat dissipation (*1)		1.0	1.0	Less than 1
Without cooling fin		-	-	Available
With POWER MODULATOR function		-	-	-
Wheel size (inch)/Outer diameter of tire (mm)	26-28 inch	✓	✓	✓
	660-712 mm	-	-	-
	20-28 inch	-	-	-
	16-28 inch	-	-	-
	24-28 inch	-	-	-
	20-24 inch	-	-	-
	16-20 inch	-	-	-
Roller brake modulator grade	More than 26 inch high	-	-	-
	More than 26 inch standard	-	-	-
	20-24 inch	-	-	-
	Range of overall allowable mass for modulator (kg) * mass = bicycle + rider + luggage	-	-	-
Inner cable quick release		✓	✓	-
Note*1 Performance index rating uses BR-C3000-R brake unit as a reference value of 1. Testing condition.				

Crankset

Series		ALFINE	NEXUS
Model no.		FC-S501	FC-C6000
Color	1	Silver	Silver
	2	Black	Black
Rear speeds		(Internal geared hub)	(Internal geared hub)
Compatible chain	Super Narrow HG for 11-speed	-	-
	Super Narrow HG for 9-speed	✓ (CN-HG93, CN-HG53)	-
	HG 8-speed (1/2 inch x 3/32 inch)	-	✓ (CN-HG71)
	1/2 inch x 1/8 inch	-	✓ (CN-NX10)
	LG	-	-
Chain line (mm)		49.2 (double chain guard), 42.7 (single chain guard)	44
P.C.D. left / right (mm)		130	-
Spider/gear arms		5	-
Chainring combination		39T, 42T, 45T	33T, 38T
Q-factor (mm)		-	-
Crank arm length (mm)	165	-	-
	167.5	-	-
	170	✓	✓
	172.5	-	-
	175	-	-
	177.5	-	-
	180	-	-
Optional chain guard	With bash guard	-	-
	With chain guard	✓ (double)	-
	Without chain/bash guard	-	✓
HOLLOWTECH II		-	-
2-PIECE CRANKSET		✓	-
HOLLOWTECH crank arm		-	-
OCTALINK		-	-
HOLLOWGLIDE		-	-
Compatible bottom bracket type	Outboard	✓	-
	OCTALINK	-	-
	Square	-	✓
Recommended bottom bracket	Threaded (normal)	BB-RS501	-
	Threaded (E-type)	-	-
	Threaded (chain case)	-	BB-UN300-K
	Press-Fit	-	-
Axle length of BB-UN/ES (mm)		-	-
Threaded bottom bracket shell width (mm)	68	✓	✓
	70	-	-
	83	-	-
Chain case compatible		-	✓
Crank arm	Material	Aluminum	Aluminum
	Finish	Anodized/Painted	Painted
Crank axle	Material	-	-
	Finish	-	-
Spider arm	Material	-	-
	Finish	-	-
Spider arm cover	Material	-	-
	Finish	-	-
Outer ring	Material	Aluminum	Steel
	Finish	Anodized	Black
Middle ring	Material	-	-
	Finish	-	-
Inner ring	Material	-	-
	Finish	-	-
Outer/middle ring fixing bolt	Material	-	-
	Finish	-	-
Inner ring fixing screw	Material	-	-
	Finish	-	-
Chain guard 1	Material	Aluminum	Resin
	Finish	Anodized	Painted
	Diameter (mm) 45T	200	-
	Diameter (mm) 42T	190	-
	Diameter (mm) 39T	174	-
	Diameter (mm) 33T	-	95.4
Chain guard 2	Material	Resin	-
	Finish	-	-
	Diameter (mm) 45T	200	-
	Diameter (mm) 42T	190	-
	Diameter (mm) 39T	174	-
	Diameter (mm) 33T	-	95.4
Crank fixing screw included		✓	✓
Average weight (g) (170 mm, w/o bottom bracket)			
Note			t : Chain case thickness * Both of spec with screw and spec w/o screw are available.

Front Hub (Roller Brake)

Series		NEXAVE	NEXUS
Model no.		HB-IM70-NT	HB-IM40
Color	1 Hub shell	Silver	Silver
	1 Quick release	Silver	-
	2 Hub shell	-	-
	2 Quick release	-	-
Type		For hub roller brake	For hub roller brake
Spoke holes	28H	-	-
	32H	-	-
	36H	✓	✓
	Others	-	-
P.C.D. (mm)		70	52
O.L.D. (mm)		100/105	100
Flange distance (mm)		56.8	61.5
Offset (mm)		3.7/6	4.3
Wheel size (inch)/Outer diameter of tire (mm)	26-28 inch	✓	✓
	660-712 mm	-	-
	20-28 inch	-	-
	16-28 inch	-	-
	24-28 inch	-	-
	20-24 inch	-	-
	16-20 inch	-	-
Roller brake modulator grade	More than 26 inch high	✓	-
	More than 26 inch standard	-	✓
	20-24 inch	-	-
Axle fixing method		Nut	Nut
Axle (nut type)	Axle length 140 mm	✓ (M9)	✓ (M9)
	Axle length 145 mm	✓ (M9)	-
	Material	Steel	Steel
Seal		✓	✓
Hub shell	Material	Aluminum	Aluminum
	Finish	Clear Painted	Machined
Structure (braking power)		Hyper	Normal
Note			

FREEHUB (Roller Brake)

Series		NEXAVE	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-IM70	FH-IM20	RH-IM10	RH-IM11
Color	Hub shell	Silver	Silver	Silver/Black	Silver
	Quick release	-	-	-	-
Spoke holes	28H	-	✓	✓	✓
	32H	✓	-	✓	✓
	36H	✓	✓	✓	✓
	Others	-	-	-	-
	P.C.D. (mm)	45	45	45	74
FREEHUB body	Speeds	8/9	7	-	-
	11T compatible	✓	✓	-	-
	Roller clutch	Roller Clutch	-	-	-
	Material	Steel	Steel	Steel	Steel
O.L.D. (mm)		135	134.7	129.5 (6-speed), 130.0 (7-speed)	132.7 (6-speed), 134.7 (7-speed)
Flange diameter (mm)		53.8	54	54	84
Flange distance (mm)		60	61.2	54.1	57.1
Dish (mm)		6.8	5.85	5.35 (6-speed), 7.1 (7-speed)	6.9 (6-speed), 7.9 (7-speed)
Axle fixing method		Nut	Nut	Nut	Nut
Axle (quick release type)	Quick release skewer length	-	-	-	-
	Length (mm)	-	-	-	-
	Material	-	-	-	-
Axle (nut type)	Length left / right (mm)	185	194/202	180/200	180/185/192/200/204
	Material	Steel	Steel	Steel	Steel
Seal	Hub	✓	-	-	-
	Freewheel	✓	-	-	-
Hub shell	Material	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Chrome plated	Plated	Plated
Note				For 6/7-speed multiple free wheel	For 6/7-speed multiple free wheel

FREEHUB (Band Brake)

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

Head Parts

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

Internal Geared Hub

Series		ALFINE	ALFINE	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-S7051-11	SG-S7051-8	SG-C6061-8V	SG-C6061-8D	SG-C7050-5V	SG-C7050-5D
Function name		INTER-11	INTER-8	INTER-8	INTER-8	INTER-5E	INTER-5E
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Brake type	Mount type	CENTER LOCK disc brake	CENTER LOCK disc brake	V-BRAKE	CENTER LOCK disc brake	V-BRAKE	CENTER LOCK disc brake
	Recommended model	-	-	-	-	-	-
Rear speeds		11	8	8	8	5	5
Gear ratio	Total	409%	307%	307%	307%	263%	263%
	1	0.527	0.527	0.527	0.527	1	1
	2	0.681	0.644	0.644	0.644	1.277	1.277
	3	0.770	0.748	0.748	0.748	1.622	1.622
	4	0.878	0.851	0.851	0.851	2.07	2.07
	5	0.995	1	1	1	2.63	2.63
	6	1.134	1.223	1.223	1.223	-	-
	7	1.292	1.419	1.419	1.419	-	-
	8	1.462	1.615	1.615	1.615	-	-
	9	1.667	-	-	-	-	-
	10	1.888	-	-	-	-	-
	11	2.153	-	-	-	-	-
Shifting structure		Di2	Di2	Di2	Di2	Di2	Di2
Silent clutch		✓	✓	✓	✓	✓	✓
Gear change support mechanism		✓	✓	✓	✓	✓	✓
Shifting POWER MODULATOR		✓	✓	✓	✓	✓	✓
Driving efficiency		HIGH	High	High	High	High	High
w/ Left hand dust cap		-	-	✓	-	✓	-
O.L.D. (mm)		135	135	135	135	135	135
Spoke size		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	✓	-	-	-	-	-
	32H	✓	✓	-	✓	-	✓
	36H	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	-	-	-
	184	-	-	-	-	-	-
	187	✓	✓	✓	✓	✓	✓
	193	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Flange distance (mm)		57.3	57.3	58.3	57.3	58.3	57.3
Flange diameter (mm)		104.3	104.3	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset (mm)		3.15	3.15	3.1	3.4	3.7	3.2
P.C.D. left / right (mm)		92.6	92.6	92.6	92.6	92.6	92.6
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Average weight (g)		1665	1670	1685	1680	1670	1670
Note		.					

Motor Unit

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		MU-UR520	MU-UR510	MU-UR500
Color	1	Black	Black	Black
	2	-	-	-
	3	-	-	-
Compatible internal geared hub		SG-S7051-11 SG-S7051-8 SG-C6061-8 SG-C7050-5	SG-S7051-11 SG-S7051-8 SG-C6061-8 SG-C7050-5	SG-S7051-11 SG-S7051-8 SG-C6061-8 SG-C7050-5
Compatible speed		11/8/5-speed	11/8/5-speed	11/8/5-speed
Master unit		-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓
SD50 port (pcs)		0	0	1
SD300 port (pcs)		1 *	1	0
SD50 connector (pcs)		0	0	0
SD300 connector (pcs)		0	0	0
Charging port (pcs)		0	0	0
Note		* Compatible with EW-PS300	-	-

GENERAL

		Page	
	Chain	260	CN
	QUICK-LINK	261	SMCN
	Disc Brake Rotor	262	RT
	Disc Brake Hose	264	BH
	Disc Brake Rotor Adapter	265	RTAD
	Outer Casing	265	OT
	Cable Adjuster	266	SMCB SMCA
	POWER MODULATOR	266	RM
	Hub Dynamo	267	DH
	Light	272	LP
	E-THRU Axle (AX)	274	SMAX
	Pedal (SPD)	276	PD
	Pedal (CLICK'R)	279	PD
	Pedal (Flat Pedal)	280	PD
	Pedal (SPD-SL)	282	PD
<Di2 spec.>	Electric Wire	283	EW
	Cord Cover	283	EWC
	Grommet	283	GM
	Wireless Unit	284	WU
	Junction [A]	284	JC
	Junction [B]	285	JC
	Battery	285	BT
	Battery Mount	286	BM
	Battery Case	286	SMBT
	Battery Charger	286	SMBC
	Charger Cord	287	BCC
	Charging Cable	287	EWEC
	PC Linkage Device	288	SMPCE
	Cord Band	288	SMCB
	Cord Clip	288	SMCC
	CAN Adapter	289	EWEX
	Electric Cable for Non SHIMANO E-BIKE SYSTEMS	289	EWPS

Chain

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CN-M9100	CN-M8100	CN-M7100	CN-M6100	CN-E8000-11	CN-HG901-11
Type	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
E-BIKE rear derailleur system compatible	✓	✓	✓	✓	✓	✓
Pin link plate	SIL-TEC	Gray	Gray	Gray	SIL-TEC	SIL-TEC
Roller link plate	Chromizing	Chromizing	SIL-TEC	Brown	Chromizing	SIL-TEC
Roller	SIL-TEC	-	-	-	-	SIL-TEC
Chromizing treatment roller link pin	✓	✓	✓	✓	✓	✓
Hollow pin	✓	-	-	-	-	✓
Average weight (g) (114 links)	242	252	252	252	257	247
Note	QUICK-LINK	QUICK-LINK	QUICK-LINK	QUICK-LINK	Used only with front single	

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CN-HG701-11	CN-HG601-11	CN-LG500	CN-E6090-10	CN-HG95	CN-HG54
Type	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
E-BIKE rear derailleur system compatible	✓	✓	✓	✓	-	-
Pin link plate	SIL-TEC	Gray	Gray	SIL-TEC	SIL-TEC	Gray
Roller link plate	SIL-TEC	SIL-TEC	Gray	SIL-TEC	SIL-TEC	Brown
Roller	-	-	-	-	-	-
Chromizing treatment roller link pin	✓	✓	✓	✓	✓	✓
Hollow pin	-	-	-	-	-	-
Average weight (g) (114 links)	257	257	257	276	273	273
Note				Used only with front single		

Series	ULTEGRA	ULTEGRA	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CN-6701	CN-6600	CN-4601	CN-HG93	CN-E6070-9	CN-HG53
Type	HG 10-speed (for 2x10s)	HG 10-speed (for 3x10s)	HG 10-speed (for 2x10s)	HG 9-speed	HG 9-speed	HG 9-speed
E-BIKE rear derailleur system compatible	-	-	-	-	✓	-
Pin link plate	Zinc-alloy plated	Zinc-alloy plated	Gray	Zinc-alloy plated	Gray	Gray
Roller link plate	Gray	Gray	Brown	Gray	Gray	Brown
Roller	-	-	-	-	-	-
Chromizing treatment roller link pin	✓	✓	✓	✓	✓	✓
Hollow pin	-	-	-	-	-	-
Average weight (g) (114 links)	267	273	-	299	276	299
Note		For triple			Used only with front single	

Series	SHIMANO	SHIMANO	NEXUS
Model no.	CN-HG71	CN-HG40	CN-NX10
Type	HG 8/7/6-speed	HG 8/7/6-speed	Single speed 1/2 x 1/8 inch
E-BIKE rear derailleur system compatible	-	-	-
Pin link plate	Silver	Gray	-
Roller link plate	Gray	Brown	-
Roller	-	-	-
Chromizing treatment roller link pin	✓	-	-
Hollow pin	-	-	-
Average weight (g) (114 links)	324	324	-
Note			

QUICK-LINK

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	SM-CN910-12	SM-CN900-11	SM-UG51
E-BIKE rear derailleur system compatible	✓	✓	✓
Compatible chain	HG 12-speed	LINKGLIDE, HG 11-speed	HG 8/7/6-speed
Pin link plate	Nickel plated	Nickel plated	-
Roller link plate	-	-	-
Roller	-	-	-
Chromizing treatment link pin	✓	✓	-
Hollow pin	-	-	-
Note	QUICK-LINK for HG 12-speed chain	QUICK-LINK for HG 11-speed chain, LINKGLIDE chain	QUICK-LINK for HG 8/7/6-speed chain

Disc Brake Rotor

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			RT-CL900	RT-CL800	RT-MT900	RT-MT905	RT-MT800	SM-RT900
CENTER LOCK			✓	✓	✓	-	✓	✓
6-bolt (P.C.D. 44 mm)			-	-	-	✓	-	-
ICE TECHNOLOGIES			✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES FREEZA			✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES FREEZA w/ heat dissipation paint			✓	-	✓	✓	-	✓
Outside diameter (mm)	220		-	-	-	-	-	-
	203		✓	✓	✓	✓	✓	-
	180		✓	✓	✓	✓	✓	-
	160		✓	✓	✓	-	✓	✓
	140		✓	✓	✓	-	✓	✓
Adapter	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Anodized
Rotor	Material		Stainless steel+Aluminum+Stainless steel	Stainless steel+Aluminum+Stainless steel	Stainless steel+Aluminum+Stainless steel	Stainless steel+Aluminum+Stainless steel	Stainless steel+Aluminum+Stainless steel	Stainless steel+Aluminum+Stainless steel
	Finish		Polished	Polished	Polished	Polished	Polished	Polished
Pad material compatibility	Metal		✓	✓	✓	✓	✓	✓
	Resin		✓	✓	✓	✓	✓	✓
Pad lining shape compatibility	Narrow		✓	✓	✓	✓	✓	✓
	Wide		-	-	-	-	-	-
Lock ring	Internal type	Material	Aluminum	Aluminum	Aluminum	-	Aluminum	Aluminum
		Finish	Anodized	Anodized	Anodized	-	Anodized	Anodized
	External type	Material	Aluminum	Aluminum	Aluminum	-	Aluminum	-
		Finish	Anodized	Anodized	Anodized	-	Anodized	-
	Internal/external type	Material	-	-	-	-	-	-
		Finish	-	-	-	-	-	-
	Internal type with magnet for EW-SS302	Material	Aluminum (except 140 mm)	Aluminum (except 140 mm)	Aluminum (except 140 mm)	-	Aluminum (except 140 mm)	-
		Finish	Anodized (except 140 mm)	Anodized (except 140 mm)	Anodized (except 140 mm)	-	Anodized (except 140 mm)	-
Average weight (g) (w/o lock ring)			97 (140 mm), 114 (160 mm), 139 (180 mm), 169 (203 mm)	97 (140 mm), 114 (160 mm), 139 (180 mm), 169 (203 mm)	88 (140 mm), 108 (160 mm), 132 (180 mm), 150 (203 mm)	147 (180 mm), 187 (203 mm)	88 (140 mm), 108 (160 mm), 132 (180 mm), 164 (203 mm)	99 (140 mm), 117 (160 mm)
Note						With anti loosen tightening plate		

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			SM-RT800	SM-RT86	SM-RT70	SM-RT76	SM-RT66	SM-RT64
CENTER LOCK			✓	-	✓	-	-	✓
6-bolt (P.C.D. 44 mm)			-	✓	-	✓	✓	-
ICE TECHNOLOGIES			✓	✓	✓	-	-	-
ICE TECHNOLOGIES FREEZA			✓	-	-	-	-	-
ICE TECHNOLOGIES FREEZA w/ heat dissipation paint			-	-	-	-	-	-
Outside diameter (mm)	220		-	-	-	-	✓	✓
	203		-	✓	✓	✓	✓	✓
	180		-	✓	✓	✓	✓	✓
	160		✓	✓	✓	✓	✓	✓
	140		✓	-	✓	-	-	✓
Adapter	Material		Aluminum	Aluminum	Aluminum	Aluminum	-	Aluminum
	Finish		Painted	Painted	Painted	Painted	-	Painted
Rotor	Material		Stainless steel+Aluminum+Stainless steel	Stainless steel+Aluminum+Stainless steel	Stainless steel+Aluminum+Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Polished	Polished	Polished	Polished	Polished	Polished
Pad material compatibility	Metal		✓	✓	✓	✓	✓	✓
	Resin		✓	✓	✓	✓	✓	✓
Pad lining shape compatibility	Narrow		✓	✓	✓	✓	✓	✓
	Wide		-	-	-	-	-	-
Lock ring	Internal type	Material	Aluminum	-	Steel	-	-	Steel
		Finish	Anodized	-	Plated	-	-	Plated
	External type	Material	-	-	Steel	-	-	Steel
		Finish	-	-	Plated	-	-	Plated
	Internal/external type	Material	-	-	-	-	-	-
		Finish	-	-	-	-	-	-
	Internal type with magnet for EW-SS302	Material	-	-	Aluminum (203 mm only)	-	-	Aluminum
		Finish	-	-	Anodized (203 mm only)	-	-	Anodized
Average weight (g) (w/o lock ring)			108 (140 mm), 128 (160 mm)	135 (160 mm), 154 (180 mm), 187 (203 mm)	121 (140 mm), 133 (160 mm), 159 (180 mm), 193 (203 mm)	141 (160 mm), 169 (180 mm), 209 (203 mm)	-	-
Note				With anti loosen tightening plate		With anti loosen tightening plate	With anti loosen tightening plate	

Disc Brake Rotor

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			SM-RT56	SM-RT54	SM-RT30	SM-RT26	SM-RT10	SM-RTC60
CENTER LOCK			-	✓	✓	-	✓	-
6-bolt (P.C.D. 44 mm)			✓	-	-	✓	-	-
ICE TECHNOLOGIES			-	-	-	-	-	-
ICE TECHNOLOGIES FREEZA			-	-	-	-	-	-
ICE TECHNOLOGIES FREEZA w/ heat dissipation paint			-	-	-	-	-	-
Outside diameter (mm)	220		-	-	-	-	-	-
	203		-	-	✓	-	-	-
	180		✓	✓	✓	✓	✓	-
	160		✓	✓	✓	✓	✓	✓
	140		-	-	-	✓ (NEW)	-	-
Adapter	Material		-	Aluminum	Stainless steel	-	Steel	Steel
	Finish		-	Painted	Painted	-	Painted	Painted
Rotor	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Polished	Polished	Polished	Polished	Polished	Polished
Pad material compatibility	Metal		-	-	-	-	-	✓
	Resin		✓	✓	✓	✓	✓	✓
Pad lining shape compatibility	Narrow		✓	✓	✓	✓	✓	✓
	Wide		✓	✓	✓	✓	✓	-
Lock ring	Internal type	Material	-	Steel	-	-	-	-
		Finish	-	Plated	-	-	-	-
	External type	Material	-	Steel	-	-	-	-
		Finish	-	Plated	-	-	-	-
	Internal/ external type	Material	-	-	Steel	-	Steel	-
		Finish	-	-	Painted	-	Painted	-
	Internal type with magnet for EW-SS302	Material	-	-	Aluminum	-	-	-
		Finish	-	-	Anodized	-	-	-
Average weight (g) (w/o lock ring)			-	-	-	-	-	-
Note			With anti loosen tightening plate			With anti loosen tightening plate		Disc brake rotor is fixed by 5 bolts with 74 mm P.C.D.

Disc Brake Hose

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-BH90-JK-SSR	SM-BH90-SB	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SBS	SM-BH90-SS
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	Straight	Banjo	Banjo	Banjo	Banjo	Straight
Rigidity		High power	High power	High power	High power	High power	High power
Banjo	Material	-	Aluminum	Aluminum	Aluminum	Aluminum	-
	Length	-	Standard	Long	Standard	Standard	-
	Banjo screw length	-	Long	Short	Long, BR-M9120 spec. *, BR-M8100 spec. *	Short	-
	Banjo screw material	-	Steel	Steel	Steel	Steel	-
Flare nut	Material	Steel	Steel	Steel	Steel	Steel	Steel
Note					* Banjo screw is not included.		

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		SM-BH59-JK-SS	SM-BH59-JK-SSR	SM-BH59-SB
Color	1	Black	Black	Black
	2	White	-	White
	3	-	-	-
Hose joint	Brake lever	Straight	Straight	Straight
	Brake caliper	Straight	Straight	Banjo
Rigidity		Standard	Standard	Standard
Banjo	Material	-	-	Aluminum
	Length	-	-	Standard
	Banjo screw length	-	-	-
	Banjo screw material	-	-	-
Flare nut	Material	Steel	Steel	Steel
Note				

Disc Brake Rotor Adapter

Series		SHIMANO
Model no.		SM-RTAD05
Color	1	Black
	2	-
	3	-
Lock ring	Type	External serration
	Material	Steel
Disc brake rotor mount method		Hexalobular bolts
Compatibility (disc brake rotor)	SM-RT86	-
	SM-RT76	-
	SM-RT66	✓
	SM-RT56	✓
	SM-RT26	✓
Compatibility (axle)	Front 20 mm thru	✓
	Front 15 mm E-THRU	✓
	Front 9 mm quick release	✓
	Rear 12 mm E-THRU	✓
	Rear 12 mm thru	✓
	Rear 10 mm thru	✓
	Rear 10 mm quick release	✓
Note		Use this disc brake rotor adapter to attach the 6-bolt mount type disc brake rotor to CENTER LOCK mount type hub. Cannot be used with the 6-bolt disc brake rotor that is installed with an aluminum adapter (SM-RT86/RT76).

Outer Casing

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

Cable Adjuster

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

POWER MODULATOR

Series		SHIMANO	SHIMANO
Model no.		SM-PM70	SM-PM40
Modulator level		Standard	Standard
Mount type		Lead pipe	Lead pipe
Available lead pipe angle	90 deg.	✓	✓
	135 deg.	✓	✓
Compatible brake	V-BRAKE	✓**	✓**
	Mechanical disc brake (MTB)	-	-
	Mechanical disc brake (Road)	-	-
	Caliper (NEW SUPER SLR)	-	-
	Caliper (SUPER SLR)	-	-
	Cantilever brake	-	-
	Roller brake	-	-
Compatible brake lever	V-BRAKE 4-finger	✓***	✓***
	V-BRAKE 3-finger	✓***	✓***
	V-BRAKE 2-finger	✓	✓
	Road	-	-
Body	Material	Aluminum	Aluminum
	Finish	Anodized+Laser marking	Barrel and Sticker
Lead pipe	Material	Stainless steel	Stainless steel
Note		** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake

Hub Dynamo

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO
Model no.		DH-UR708-3D	DH-UR705-3D	DH-UR700-3D	DH-T4050-1D	DH-T4000-1N	DH-F703-S
Regulation	StVZO	✓	✓	✓	✓	✓	✓
	TPGBi	-	-	-	-	-	-
	JIS	-	-	-	-	-	-
	Others	ISO	-	-	-	-	-
Color	1 Hub shell	Silver	Silver	Silver	Black	Silver	Silver
	1 Quick release	-	-	Silver	Black	-	Black
	2 Hub shell	Black	Black	Black	-	Black	-
	2 Quick release	-	-	Black	-	-	Black
Brake type		Disc brake	Disc brake	Disc brake	Disc brake	Regular	Regular
CENTER LOCK mount type		✓	✓	✓	✓	-	-
Voltage (V)		6	6	6	6	6	6
Output (W)		3	3	3	1.5	1.5	3
Wheel size	26-28 inch	✓	✓	✓	-	-	-
	20-28 inch	-	-	-	-	-	-
	18-28 inch	-	-	-	✓	✓	-
	16-28 inch	-	-	-	-	-	-
	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	16-20 inch	-	-	-	-	-	✓
	Compatible wheel size (mm)	(646-716)	(646-716)	(646-716)	(448 - 716)	(448 - 716)	(400 - 536)
Axle fixing method		15 mm E-THRU	12 mm E-THRU *	Quick release	Quick release	Quick release	Quick release
Quick release type		-	-	✓	✓	✓	✓
Nut type		-	-	-	-	-	-
E-THRU type		✓ *	✓ *	-	-	-	-
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	-	-	✓	✓	✓	✓
Thru axle (length x inner diameter ; mm)	100 x 12	-	✓	-	-	-	-
	100 x 15	✓	-	-	-	-	-
O.L.D. (mm)		100	100	100	100	100	74
Flange distance (mm)		52	52	52	51	56.0	44.6
Offset (mm)		3.5	3.5	3.5	1.9	0	0
P.C.D. left / right (mm)		62	62	62	67	67	74
Axle length (mm)		100	100	108	108	108	82
Spoke size		#14	#14	#14	#14	#14	#14
Spoke hole	24H	-	-	-	-	-	✓
	28H	-	-	-	-	-	✓
	32H	✓	✓	✓	✓	✓	-
	36H	✓	✓	✓	✓	✓	-
Seal		Single contact	Single contact	Single contact	Single contact	Single contact	Single contact
Roller brake modulator grade	More than 26 inch high	-	-	-	-	-	-
	More than 26 inch standard	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
Electric power output connector	J1 type	-	-	-	-	-	-
	J2 type	-	-	-	-	-	-
	E2 type	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted
Axle	Material	-	-	Aluminum	Steel	Steel	Steel
	Finish	-	-	Chromated	Zinc plated	Zinc plated	Zinc plated
Quick release lever	Material	-	-	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	-	Anodized	E-coated	E-coated	Anodized
Quick release housing	Material	-	-	Aluminum	Steel	Steel	Aluminum
	Finish	-	-	Anodized	E-coated	E-coated	Anodized
Quick release nut	Material	-	-	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
	Finish	-	-	-	-	-	-
Average weight (g)		459 (w/o QR)	450	476 (w/o QR)	565	580	590
Note			Recommended E-THRU axle: SM-AX720		* For LED light use only	* For LED light use only	

Hub Dynamo

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DH-3D72	DH-3D37-QR	DH-3D37-NT	DH-3D32-QR	DH-3D32-NT	DH-3N72
Regulation	StVZO	✓	✓	✓	✓	✓	✓
	TPGBi	✓	✓	✓	✓	✓	-
	JIS	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Color	1 Hub shell	Silver	Silver	Silver	Clear	Clear	Silver
	1 Quick release	Silver	-	-	-	-	Silver
	2 Hub shell	Black	Black	Black	Black	Black	Black
	2 Quick release	Black	-	-	-	-	Silver
Brake type		Disc brake	Disc brake	Disc brake	Disc brake	Disc brake	Regular
CENTER LOCK mount type		✓	✓	✓	-	-	-
Voltage (V)		6	6	6	6	6	6
Output (W)		3	3	3	3	3	3
Wheel size	26-28 inch	✓	-	-	-	-	✓
	20-28 inch	-	-	-	-	-	-
	18-28 inch	-	-	-	-	-	-
	16-28 inch	-	✓	✓	✓	✓	-
	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	16-20 inch	-	-	-	-	-	-
	Compatible wheel size (mm)	(646-716)	(400 - 716)	(400 - 716)	(400 - 716)	(400 - 716)	(646-716)
Axle fixing method		Quick release	Quick release	Nut	Quick release	Nut	Quick release
Quick release type		✓	✓	-	✓	-	✓
Nut type		-	-	✓	-	✓	-
E-THRU type		-	-	-	-	-	-
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	✓	✓	-	✓	-	✓
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-	-
	100 x 15	-	-	-	-	-	-
O.L.D. (mm)		100	100	100	100	100	100
Flange distance (mm)		52.1	51	51	51.1	51.1	60.0
Offset (mm)		3.8	4	4	4	3.6	0
P.C.D. left / right (mm)		70	74	74	74	74	70
Axle length (mm)		108	108	108	108	140	108
Spoke size		#14	#14	#14	#14	#14	#14
Spoke hole	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
Seal		Single contact	Single contact	Single contact	Single contact	Single contact	Single contact
Roller brake modulator grade	More than 26 inch high	-	-	-	-	-	-
	More than 26 inch standard	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
Electric power output connector	J1 type	-	-	-	-	-	-
	J2 type	-	-	-	-	-	-
	E2 type	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized+Painted/ Anodized	Painted	Painted	Painted	Painted	Anodized+Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Phosphate coated	Zinc plated	Phosphate coated	Zinc plated
Quick release lever	Material	Aluminum	Steel	-	Steel	-	Aluminum
	Finish	Anodized	Nickel plated	-	Nickel plated	-	Anodized
Quick release housing	Material	Aluminum	Steel	-	Steel	-	Aluminum
	Finish	Anodized	Nickel plated	-	Nickel plated	-	Anodized
Quick release nut	Material	Steel+Resin	Steel+Resin	-	Steel+Resin	-	Steel+Resin
	Finish	-	-	-	-	-	-
Average weight (g)		559	650	680	685	705	560
Note							

Hub Dynamo

Series		ALFINE	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		DH-S501	DH-C6000-3R-NT	DH-C6000-2R	DH-C6000-1R	DH-C3000-3N-QR	DH-C3000-3N-NT
Regulation	StVZO	✓	✓	-	✓	✓	✓
	TPGBi	-	✓	-	-	✓	✓
	JIS	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Color	1 Hub shell	Silver	Silver	Silver	Silver	Silver	Silver
	1 Quick release	Silver	Black	-	-	-	-
	2 Hub shell	Piano black	-	Black	Black	Black	Black
	2 Quick release	Silver	-	-	-	-	-
Brake type		Disc brake	Hub roller brake	Hub roller brake	Hub roller brake	Regular	Regular
CENTER LOCK mount type		✓	-	-	-	-	-
Voltage (V)		6	6	6	6	6	6
Output (W)		3	3	2.4	1.5	3.0	3.0
Wheel size	26-28 inch	✓	✓	✓	✓	-	-
	20-28 inch	-	-	-	-	-	-
	18-28 inch	-	-	-	-	-	-
	16-28 inch	-	-	-	-	✓	✓
	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	16-20 inch	-	-	-	-	-	-
	Compatible wheel size (mm)	(646-716)	(646-716)	(646-716)	(646-716)	(400 - 716)	(400 - 716)
Axle fixing method		Quick release	Nut	Nut	Nut	Quick release	Nut
Quick release type		✓	-	-	-	✓	-
Nut type		-	✓	✓	✓	-	✓
E-THRU type		-	-	-	-	-	-
Quick release skewer length (mm)	129	-	-	-	-	✓	-
	133	✓	-	-	-	✓	-
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-	-
	100 x 15	-	-	-	-	-	-
O.L.D. (mm)		100	100	100	100	100	100
Flange distance (mm)		52.1	58.1	58.1	58.1	60.0	60.0
Offset (mm)		3.8	4.7	4.7	4.7	0.6	1.0
P.C.D. left / right (mm)		70	76	76	76	74	74
Axle length (mm)		108	140	140	140	108	140
Spoke size		#14	#14	#14	#14	#14	#14
Spoke hole	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
Seal		Single contact	Single Contact	Single contact	Single contact	Single contact	Single contact
Roller brake modulator grade	More than 26 inch high	-	✓	✓	✓	-	-
	More than 26 inch standard	-	✓	✓	✓	-	-
	20-24 inch	-	-	-	-	-	-
Electric power output connector	J1 type	-	-	-	-	-	-
	J2 type	-	-	-	-	-	-
	E2 type	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated
Quick release lever	Material	Aluminum	-	-	-	Steel	-
	Finish	Anodized	-	-	-	Nickel plated	-
Quick release housing	Material	Aluminum	-	-	-	Steel	-
	Finish	Anodized	-	-	-	Nickel plated	-
Quick release nut	Material	Steel+Resin	-	-	-	Steel+Resin	-
	Finish	-	-	-	-	-	-
Average weight (g)		564	960	960	960	700	712
Note					* For LED light use only		

Hub Dynamo

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		DH-C3000-2N-QR	DH-C3000-2N-NT	DH-C3000-1N	DH-C2100-N	DH-C2100-NC	DH-C2100-N-QR
Regulation	StVZO	-	-	✓	-	-	-
	TPGBi	-	-	-	-	-	-
	JIS	-	-	-	-	-	-
	Others	-	-	-	VIA	VIA	VIA
Color	1 Hub shell	Silver	Silver	Silver	Silver	Silver	Silver
	1 Quick release	-	-	-	-	-	Silver
	2 Hub shell	Black	Black	Black	Black	Black	Black
	2 Quick release	-	-	-	-	-	Black
Brake type		Regular	Regular	Regular	Regular	Regular	Regular
CENTER LOCK mount type		-	-	-	-	-	-
Voltage (V)		6	6	6	6	6	6
Output (W)		2.4	2.4	1.5	0.9	0.9	0.9
Wheel size	26-28 inch	-	-	-	-	-	-
	20-28 inch	-	-	✓	-	-	-
	18-28 inch	-	-	-	-	-	-
	16-28 inch	✓	✓	-	-	-	-
	24-28 inch	-	-	-	✓	-	✓
	20-24 inch	-	-	-	-	✓	-
	16-20 inch	-	-	-	-	-	-
	Compatible wheel size (mm)	(400 - 716)	(400 - 716)	(448 - 716)	-	-	-
Axle fixing method		Quick release	Nut	Nut	Nut	Nut	Quick release
Quick release type		✓	-	-	-	-	✓
Nut type		-	✓	✓	✓	✓	-
E-THRU type		-	-	-	-	-	-
Quick release skewer length (mm)	129	✓	-	-	-	-	✓
	133	✓	-	-	-	-	✓
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-	-
	100 x 15	-	-	-	-	-	-
O.L.D. (mm)		100	100	100	93	93	100
Flange distance (mm)		60.0	60.0	56.0	58	58	58
Offset (mm)		0.6	1.0	0	0.5	0.5	0.5
P.C.D. left / right (mm)		74	74	67	60	60	60
Axle length (mm)		108	140	140	150/155	150/155	108
Spoke size		#14	#14	#14	#13/#14	#13/#14	#13/#14
Spoke hole	24H	-	-	-	-	-	-
	28H	-	-	-	-	✓	-
	32H	✓	✓	✓	-	-	✓
	36H	✓	✓	✓	✓	-	✓
Seal		Single contact	Single contact	Single contact	Single contact	Single contact	Single contact
Roller brake modulator grade	More than 26 inch high	-	-	-	-	-	-
	More than 26 inch standard	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
Electric power output connector	J1 type	-	-	-	-	-	-
	J2 type	-	-	-	-	-	-
	E2 type	✓	✓	✓	-	-	-
	Others	-	-	-	✓ (J2-A)	✓ (J2-A)	✓ (J2-A)
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted (black)/Passivation (silver)	Painted (black)/Passivation (silver)	Painted (black)/Passivation (silver)
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Phosphate coated	Phosphate coated	Phosphate coated	Plated	Plated	Phosphate coated
Quick release lever	Material	Steel	-	-	-	-	Steel
	Finish	Nickel plated	-	-	-	-	Plated
Quick release housing	Material	Steel	-	-	-	-	Steel
	Finish	Nickel plated	-	-	-	-	Plated
Quick release nut	Material	Steel+Resin	-	-	-	-	Steel+Resin
	Finish	-	-	-	-	-	-
Average weight (g)		700	705	600	491	491	474
Note				* For LED light use only	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market

Hub Dynamo

Series		NEXUS	NEXUS	NEXUS	SHIMANO	SHIMANO
Model no.		DH-C2100-N-QRC	DH-2N40-J	DH-2N40-JC	DH-2N40-JW	DH-2N40-JWC
Regulation	StVZO	-	-	-	-	-
	TPGBi	-	-	-	-	-
	JIS	-	✓	✓	✓	✓
	Others	VIA	-	-	-	-
Color	1 Hub shell	Silver	Silver	Silver	Silver	Silver
	1 Quick release	Silver	-	-	-	-
	2 Hub shell	Black	Black	Black	Black	Black
	2 Quick release	Silver	-	-	-	-
Brake type		Regular	Regular	Regular	Regular	Regular
CENTER LOCK mount type		-	-	-	-	-
Voltage (V)		6	6	6	6	6
Output (W)		0.9	2.4	2.4	2.4	2.4
Wheel size	26-28 inch	-	-	-	-	-
	20-28 inch	-	-	-	-	-
	18-28 inch	-	-	-	-	-
	16-28 inch	-	-	-	-	-
	24-28 inch	-	✓	-	✓	-
	20-24 inch	✓	-	✓	-	✓
	16-20 inch	-	-	-	-	-
	Compatible wheel size (mm)	-	-	-	-	-
Axle fixing method		Quick release	Nut	Nut	Nut	Nut
Quick release type		✓	-	-	-	-
Nut type		-	✓	✓	✓	✓
E-THRU type		-	-	-	-	-
Quick release skewer length (mm)	129	✓	-	-	-	-
	133	✓	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-
	100 x 15	-	-	-	-	-
O.L.D. (mm)		100	93	93	100	100
Flange distance (mm)		58	60	60	60	60
Offset (mm)		0.5	0	0	3	3
P.C.D. left / right (mm)		60	69	69	69	69
Axle length (mm)		108	150/155	150	140	140
Spoke size		#13/#14	#13/#14	#14	#14	#14
Spoke hole	24H	-	-	-	-	-
	28H	-	-	✓	-	-
	32H	✓	-	-	-	-
	36H	✓	✓	-	✓	✓
Seal		Single contact	Single contact	Single contact	Single contact	Single contact
Roller brake modulator grade	More than 26 inch high	-	-	-	-	-
	More than 26 inch standard	-	-	-	-	-
	20-24 inch	-	-	-	-	-
Electric power output connector	J1 type	-	-	-	-	-
	J2 type	-	✓	✓	✓	✓
	E2 type	-	-	-	-	-
	Others	✓ (J2-A)	-	-	-	-
Hub shell	Material	Aluminum	Aluminum+Steel	Aluminum+Steel	Aluminum+Steel	Aluminum+Steel
	Finish	Painted (black)/Passivation (silver)	Painted/Passivation	Painted/Passivation	Painted/Passivation	Painted/Passivation
Axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Phosphate coated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Quick release lever	Material	Steel	-	-	-	-
	Finish	Plated	-	-	-	-
Quick release housing	Material	Steel	-	-	-	-
	Finish	Plated	-	-	-	-
Quick release nut	Material	Steel+Resin	-	-	-	-
	Finish	-	-	-	-	-
Average weight (g)		474	630	630	630	630
Note		* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market

Light

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

Light

Series		SHIMANO	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		LP-C2250-H	LP-C2111-S	LP-X101	LP-X101-H	LP-NX60-R
Function name		HILMO	HILMO FLASH	-	-	-
Auto light		-	-	✓	✓	-
Type of light	Front	✓	✓	✓	✓	-
	Tail (rear)	-	-	-	-	✓
Hub dynamo output		0.9 W	6 V-0.9 W	6 V-2.4 W	6 V-2.4 W	6 V-2.4 W
Main light		High power LED	High power LED	High power LED	High power LED	Super bright red LED
Brightness (at 5 m distance, JIS standard = 16 lx)		40 lx	40 lx	80 lx	80 lx	-
Lighting pattern		Wide	Normal	Normal	Normal	-
Sub light		-	-	-	-	-
Stand light (LED flashing) function		-	✓	-	-	✓ (if used with LP-X103)
Reflector integration		-	✓	-	✓	-
Electric power input	Tab-on type	-	-	✓	✓	-
	Connector type	J2-A	J2-A	✓	✓	✓
Light body material		Resin	Resin	Resin	Resin	Resin
Color	1	Silver/Black	CP	Silver (painted)	Silver (painted)	Silver (painted)
	2	-	Silver (painted)	White (painted)	White (painted)	White (painted)
	3	-	White	Black	Black	Black (painted)
	4	-	Black	Gray	Gray	-
	5	-	Gray	-	-	-
	6	-	-	-	-	-
Attachment position	Light stay	-	✓	✓	✓	-
	Below basket	-	-	-	-	-
	Fork center	-	-	-	-	-
	Handle bar	✓	-	-	-	-
	On mud guard	-	-	-	-	✓ *
	Mud guard style stay	-	-	-	-	-
	Seat stay	-	-	-	-	-
Compatible seat stay diameter (mm)	13	-	-	-	-	-
	16	-	-	-	-	-
	19	-	-	-	-	-
Compatible handle bar diameter (mm)	22.2	✓	-	-	-	-
	25.4	✓	-	-	-	-
	31.8	✓	-	-	-	-
Switch	Auto	-	-	✓	✓	-
	Manual (on)	-	-	✓	✓	-
	Manual (off)	-	-	-	-	-
	Permanent	✓	✓	-	-	✓
Electric wire color	Black	✓	-	✓	✓	✓
	Gray	-	✓	-	-	✓
Electric wire length (mm)	Tab-on type	-	-	400	410	-
	Connector type	800	405	120	160	Available
EZ cable clamp		✓	-	-	-	-
Cord length adjuster		-	-	-	-	-
Compatible wheel size		-	-	-	-	24-27 inch
Note		* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market (attached with special stay. 2 kinds of stays are available. One for internal geared hub, another for FREEHUB)

E-THRU Axle (AX)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-AX720-100x12	SM-AX720-142x12	AX-MT700-142x12	AX-MT700-148x12	AX-MT700-157x12	AX-MT500-142x12
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	100 x 12	✓	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	✓	✓	-	-	✓
	148 x 12	-	-	-	✓	✓	-
	150 x 12	-	-	-	-	-	-
	157 x 12	-	-	-	-	✓	-
Lever position adjustment	Tool-less type	-	-	-	-	-	-
	Hexagon wrench type	✓	✓	✓	✓	✓	✓
Axle	Thread pitch	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5
	Length (mm)	121	163	166	172	181	166
	Hollow axle	✓	✓	✓	✓	✓	✓
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black anodized	Black anodized	Black anodized	Black anodized	Black anodized	Silver anodized
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black anodized	Black anodized	Black anodized	Black anodized	Black anodized	Painted (black)
Housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black anodized	Black anodized	Black anodized	Black anodized	Black anodized	Painted (black)
Fixing nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g)		65	74	75	76	79	79
Note							

Series		SHIMANO	SHIMANO	SAINT	SHIMANO	SHIMANO	SHIMANO
Model no.		AX-MT500-148x12	AX-MT500-157x12	SM-AX80	SM-AX78	SM-AX78-B	SM-AX58
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	✓	-	-	-
	100 x 12	-	-	-	-	-	-
	135 x 12	-	-	✓	-	-	-
	142 x 12	-	-	-	✓	-	✓
	148 x 12	✓	-	-	-	✓	-
	150 x 12	-	-	✓	-	-	-
	157 x 12	-	✓	-	-	-	-
Lever position adjustment	Tool-less type	-	-	-	✓	✓	✓
	Hexagon wrench type	✓	✓	✓	-	-	-
Axle	Thread pitch	M12 x 1.5	M12 x 1.5	M10 x 1.00 (10 mm), M12 x 1.75 (12 mm)	M12 x 1.5	M12 x 1.5	M12 x 1.5
	Length (mm)	172	181	168/183	166	172	166
	Hollow axle	✓	✓	✓	✓	✓	✓
	Material	Aluminum	Aluminum	Chromoly steel	Aluminum	Aluminum	Aluminum
	Finish	Silver anodized	Silver anodized	Plated	Black anodized	Black anodized	Silver anodized
Lever	Material	Aluminum	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	Painted (black)	Painted (black)	-	Black anodized	Black anodized	Painted (black)
Housing	Material	Aluminum	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	Painted (black)	Painted (black)	-	Black anodized	Black anodized	Black anodized
Fixing nut	Material	-	-	Steel	-	-	-
	Finish	-	-	Plated	-	-	-
Average weight (g)		80	83	133 (135 x 10 mm) 160 (135 x 12 mm) 169 (150 x 12 mm)	77	78	81
Note							

E-THRU Axle (AX)

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		SM-AX58-B	SM-AX56	SM-AX56-B
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-
	100 x 12	-	-	-
	135 x 12	-	-	-
	142 x 12	-	✓	-
	148 x 12	✓	-	✓
	150 x 12	-	-	-
	157 x 12	-	-	-
Lever position adjustment	Tool-less type	✓	✓	✓
	Hexagon wrench type	-	-	-
Axle	Thread pitch	M12 x 1.5	M12 x 1.5	M12 x 1.5
	Length (mm)	172	171	177
	Hollow axle	✓	✓	✓
	Material	Aluminum	Aluminum	Aluminum
	Finish	Silver anodized	Silver anodized	Silver anodized
Lever	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted (black)	Painted (black)	Painted (black)
Housing	Material	Aluminum	Aluminum	Aluminum
	Finish	Black anodized	Painted (black)	Painted (black)
Fixing nut	Material	-	Aluminum	Aluminum
	Finish	-	Black anodized	Black anodized
Average weight (g)		82	75	77
Note				

Pedal (SPD)

Series		XTR	XTR	DEORE XT	GRX	DEORE XT	SHIMANO
Model no.		PD-M9100	PD-M9120	PD-M8100	PD-M8100-UG	PD-M8120	PD-M540
Color	1	Black	Black	Black	Black	Black	Silver
	2	-	-	-	-	-	Black
	3	-	-	-	-	-	-
Type		SPD	SPD	SPD	SPD	SPD	SPD
Binding		Dual sided	Dual sided	Dual sided	Dual sided	Dual sided	Dual sided
Pedal axle material		Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel
Cartridge axle		✓	✓	✓	✓	✓	✓
Sealed mechanism		✓	✓	✓	✓	✓	✓
Cleat retention adjuster		✓	✓	✓	✓	✓	✓
Pop-up cage		-	-	-	-	-	-
Integrated cage		-	✓	-	-	✓	-
Offset binding		✓	-	-	-	-	-
Oval shape axle body housing		-	-	-	-	-	-
Cleat included	SM-SH51	✓	✓	✓	✓	✓	✓
	SM-SH56	-	-	-	-	-	-
Optional cleat	SM-SH51	-	-	-	-	-	-
	SM-SH56	✓	✓	✓	✓	✓	✓
Reflector		SM-PD60 SM-PD22 (3 mm shorter axle type)	SM-PD60	SM-PD60	SM-PD60	SM-PD60	SM-PD22
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized (silver)/Painted (bronze)
Cage	Material	-	-	-	-	-	-
Stack height (mm)		15.1	15.4	16.5	16.5	16.2	17.0
Pedal center (mm)		55	55	55	55	55	55
Average weight (g)		310 (/pair) (Short axle type) 314 (/pair) (Normal axle type)	398 (/pair)	342 (/pair)	342 (/pair)	438 (/pair)	352 (/pair)
Note		3 mm shorter axle available 1.0 mm cleat spacer included	1.0 mm cleat spacer included	1.0 mm cleat spacer included	United in Gravel limited edition, 1.0 mm cleat spacer included	1.0 mm cleat spacer included	

Pedal (SPD)

Series		SHIMANO	SHIMANO	SAINT	DXR	SHIMANO	SHIMANO
Model no.		PD-M520	PD-M505	PD-M821	PD-MX70	PD-M647	PD-M324
Color	1	Silver	Silver	Black	Black	Black	Silver
	2	Black	Black	-	-	-	-
	3	White	-	-	-	-	-
Type		SPD	SPD	SPD	SPD	SPD	SPD/FlatPedal
Binding		Dual sided	Dual sided	Dual sided	Dual sided	Dual sided	Single sided
Pedal axle material		Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel
Cartridge axle		✓	-	✓	✓	✓	-
Sealed mechanism		✓	✓	✓	✓	✓	✓
Cleat retention adjuster		✓	✓	✓	✓	✓	✓
Pop-up cage		-	-	-	-	✓	-
Integrated cage		-	-	✓	✓	-	-
Offset binding		-	-	-	-	-	-
Oval shape axle body housing		-	-	-	-	-	-
Cleat included	SM-SH51	✓	✓	✓	✓	✓	-
	SM-SH56	-	-	-	-	-	✓
Optional cleat	SM-SH51	-	-	-	-	-	✓
	SM-SH56	✓	✓	✓	✓	✓	-
Reflector		SM-PD22	SM-PD22	SM-PD60	SM-PD60	SM-PD60	Y41B98010
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Polished (silver)/Painted (black)/Painted (white)	Polished (silver)/Painted (black)	Painted	Anodized	Painted	Painted
Cage	Material	-	-	-	-	Resin	Steel
Stack height (mm)		17.0	18.3	16.9	16.7	-	18
Pedal center (mm)		55	55	55	55	-	55
Average weight (g)		380 (/pair)	443 (/pair)	546 (/pair) (w/o pins & washers)	414 (/pair)	568 (/pair)	533 (/pair)
Note				4 height adjustable pins 1.0 mm cleat spacer included	Higher retention force and narrower release angle than normal SPD pedals 1.0 mm cleat spacer included		

Pedal (SPD)

Series		SHIMANO	DEORE XT	SHIMANO	SHIMANO	SHIMANO
Model no.		PD-ME700	PD-T8000	PD-ES600	PD-EH500	PD-ED500
Color	1	Black	Black	Dark gray	Dark gray	Dark gray
	2	-	-	-	-	-
	3	-	-	-	-	-
Type		SPD	SPD/FlatPedal	SPD	SPD/FlatPedal	SPD
Binding		Dual sided	Single sided	Single sided	Single sided	Dual sided
Pedal axle material		Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel
Cartridge axle		✓	✓	✓	✓	✓
Sealed mechanism		✓	✓	✓	✓	✓
Cleat retention adjuster		✓	✓	✓	✓	✓
Pop-up cage		-	-	-	-	-
Integrated cage		✓	-	-	-	✓
Offset binding		-	-	-	-	-
Oval shape axle body housing		-	-	-	-	-
Cleat included	SM-SH51	✓	-	✓	-	-
	SM-SH56	-	✓	-	✓	✓
Optional cleat	SM-SH51	-	✓	-	✓	✓
	SM-SH56	✓	-	✓	-	-
Reflector		SM-PD60	Integrated	SM-PD62	SM-PD68	SM-PD60
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Painted	Painted	Painted (Dark Gray)
Cage	Material	-	-	-	-	-
Stack height (mm)		16.7	17.0	17.2	17.4	17.5
Pedal center (mm)		55	55	55	55	55
Average weight (g)		540 (/pair)	392 (/pair)	279 (/pair)	383 (/pair)	442 (/pair)
Note		1.0 mm cleat spacer included		1.0 mm cleat spacer included	Light action	Light action

Pedal (CLICK'R)

Series		SHIMANO
Model no.		PD-T421
Color	1	Black
	2	-
	3	-
Type		SPD
Binding		Single sided
Pedal axle material		Chromoly steel
Cartridge axle		✓
Sealed mechanism		✓
Cleat retention adjuster		✓
Pop-up cage		✓
Integrated cage		-
Offset binding		-
Oval shape axle body housing		-
Cleat included	SM-SH51	-
	SM-SH56	✓
Optional cleat	SM-SH51	✓
	SM-SH56	-
Reflector		Integrated
Pedal body	Material	Aluminum
	Finish	Painted
Cage	Material	Resin
Stack height (mm)		19.0
Pedal center (mm)		55
Average weight (g)		418 (/pair)
Note		

Pedal (Flat Pedal)

Series		SAINT	DEORE XT	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		PD-M828	PD-M8140	PD-GR500	PD-GR400	PD-EF202	PD-EF205
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	Silver	Blue	Silver	Silver
	3	-	-	-	Red	Red	Red
	4	-	-	-	Orange (NEW)	Blue	Blue
	5	-	-	-	Purple (NEW)	Gold	Gold
	6	-	-	-	Green (NEW)	-	-
Type		Flat Pedal	Flat Pedal	Flat Pedal	Flat Pedal	Flat Pedal	Flat Pedal
Pedal axle material		Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel
Cartridge axle		✓	✓	✓	-	-	-
Sealed mechanism		✓	✓	✓	✓	✓	✓
Cleat retention adjuster		-	-	-	-	-	-
Pop-up cage		-	-	-	-	-	-
Integrated cage		-	-	-	-	-	-
Offset binding		-	-	-	-	-	-
Oval shape axle body housing		-	-	-	-	-	-
Reflector		SM-PD64A	SM-PD67	SM-PD64A	SM-PD70	SM-PD69	SM-PD69
Pedal body	Material	Aluminum	Aluminum	Aluminum	Resin	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	-	Painted	Painted
Cage	Material	-	-	-	-	-	-
Wide platform		-	-	-	-	-	-
Stack height (mm)		8.2	9.1	9.4	8	10.8	10.8
Average weight (g)		553 (/pair)	461 (/pair) (SM) 505 (/pair) (ML)	533 (/pair)	400 (/pair)	512 (/pair)	612 (/pair)
Note		12 pins per platform	10 pins per platform 2 platform size available (SM/ML)	9 pins per platform	9 pins per platform		

Pedal (Flat Pedal)

Series		SHIMANO
Model no.		PD-EF102
Color	1	Black
	2	-
	3	-
	4	-
	5	-
	6	-
Type		Flat Pedal
Pedal axle material		Chromoly steel
Cartridge axle		-
Sealed mechanism		✓
Cleat retention adjuster		-
Pop-up cage		-
Integrated cage		-
Offset binding		-
Oval shape axle body housing		-
Reflector		Integrated
Pedal body	Material	Resin
	Finish	-
Cage	Material	-
Wide platform		-
Stack height (mm)		9
Average weight (g)		310 (/pair)
Note		

Pedal (SPD-SL)

Series		DURA-ACE	ULTEGRA	SHIMANO 105	SHIMANO	SHIMANO
Model no.		PD-R9100	PD-R8000	PD-R7000	PD-R550	PD-RS500
Color	1	Black	Black	Black	Black	Black
	2	-	-	-	Gray	-
	3	-	-	-	-	-
Type		SPD-SL	SPD-SL	SPD-SL	SPD-SL	SPD-SL
Binding		Single sided	Single sided	Single sided	Single sided	Single sided
Pedal axle material		Nickel chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel
Cartridge axle		-	✓	✓	✓	✓
Sealed mechanism		✓	✓	✓	✓	✓
Cleat retention adjuster		✓	✓	✓	✓	✓
Cleat included	SM-SH11	-	✓	✓	✓	✓
	SM-SH12	✓	-	-	-	-
Optional cleat	SM-SH10	✓	✓	✓	✓	✓
	SM-SH11	✓	-	-	-	-
	SM-SH12	-	✓	✓	✓	✓
Reflector		SM-PD63	SM-PD63	SM-PD65	SM-PD65	SM-PD65
Pedal body	Material	Carbon	Carbon	Carbon	Resin	Resin
	Finish	-	-	-	Painted	Painted
Body cover material		Special stainless	Special stainless	Stainless steel	Stainless steel	Stainless steel
Wide platform		✓	✓	✓	✓	-
Stack height (mm)		14.6	15.8	16.5	16.5	16.5
Pedal center (mm)		52	53	53	53	53
Road clearance (deg.)		35	33	31	32	30
Average weight (g)		228 (/pair)	248 (/pair)	265 (/pair)	310 (/pair)	320 (/pair)
Note		4 mm longer axle available, Hollow cleat screws	4 mm longer axle available	-	Wider spring tension range	-

Electric Wire

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-SD300	EW-SD300-I	EW-SD50	EW-SD50-I
Type	For external routing	For internal routing	For external routing	For internal routing
Compatible system	E-TUBE	E-TUBE	E-TUBE	E-TUBE
SD50 port (pcs)	0	0	0	0
SD300 port (pcs)	0	0	0	0
SD50 connector (pcs)	0	0	2	2
SD300 connector (pcs)	2	2	0	0
Cord diameter	ø2.4	ø2.4	ø2.8	ø2.8
Plug diameter	ø3.45	ø3.45	ø5.1	ø5.1
Note	Cable length:150-1600 mm	Cable length:150-1600 mm	Cable length: 150 - 1,600 mm* * 1,600 mm is for E-BIKE usage only	Cable length: 150 - 1,600 mm* * 1,600 mm is for E-BIKE usage only

Cord Cover

Series		SHIMANO	SHIMANO
Model no.		SM-EWC2	EW-CC300
Specification		Long/Short	Long
Color	1	Black	Black
	2	White	White
	3	-	-
Length		Long: 300 mm, Short: 50 mm	300 mm
Compatible electric wire		EW-SD50	EW-SD300
Note			

Grommet

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-GM300-S	EW-GM300-M	SM-GM01	SM-GM02
Compatible electric wire	EW-SD300	EW-SD300	EW-SD50	EW-SD50
Hole dimension on frame	6 mm circle	7 x 8 mm	6 mm circle	7 x 8 mm
Note				

Wireless Unit

Series		SHIMANO
Model no.		EW-WU111
Wireless system		ANT private *, Bluetooth®LE
Master unit		-
Firmware update by E-TUBE PROJECT		✓
SD50 port (pcs)		2
SD300 port (pcs)		0
SD50 connector (pcs)		0
SD300 connector (pcs)		0
Compatible system		Bluetooth®LE corresponding master unit
Function **	Gear position	✓
	Di2 Battery level	✓
	Adjust mode display	✓
	Suspension mode	✓
	Shift mode	✓
Note		* ANT private has compatibility with ANT+ cycle computer but not freely open profile ** Display function depends on the specification of cycle computer

Junction [A]

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		EW-RS910	SM-EW90-A	SM-EW90-B
Type		Built-in type	External type	External type
Position		In side of frame or handle	Under stem	Under stem
Wireless system		-	-	-
Compatible system		E-TUBE	E-TUBE	E-TUBE
Compatible electric wire		EW-SD50	EW-SD50	EW-SD50
Master unit		-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓
SD50 port (pcs)		2	3	5
SD300 port (pcs)		0	0	0
SD50 connector (pcs)		0	0	0
SD300 connector (pcs)		0	0	0
Connector for remote sprinter shifter (QTY)		0	0	0
Port for remote sprinter shifter (QTY)		0	0	0
Charging port (pcs)		1	1	1
Function	Gear position	✓	✓	✓
	Di2 Battery level	✓	✓	✓
	Adjust mode display	✓	✓	✓
	E-TUBE connection	✓	✓	✓
Average weight (g)		11	10	13
Note				

Junction [B]

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-AD305	EW-JC302	EW-JC304	EW-JC200	EW-JC130-SS	EW-JC130-SM
Type	Conversion adaptor	2 ports junction	4 ports junction	2 ports junction	Y-split routing-SS	Y-split routing-SM
Master unit	-	-	-	-	-	-
Firmware update by E-TUBE PROJECT	-	-	-	-	-	-
SD50 port (pcs)	1	0	0	2	0	0
SD300 port (pcs)	1	2	4	0	0	0
SD50 connector (pcs)	0	0	0	0	3	3
SD300 connector (pcs)	0	0	0	0	0	0
Average weight (g)	-	-	-	-	-	-
Note					Cable length 250 mm 350 mm 50 mm	Cable length 450 mm 350 mm 50 mm

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-JC130-MM	SM-JC41	SM-JC40
Type	Y-split routing-MM	Built-in type	External type
Master unit	-	-	-
Firmware update by E-TUBE PROJECT	-	-	-
SD50 port (pcs)	0	4	4
SD300 port (pcs)	0	0	0
SD50 connector (pcs)	3	0	0
SD300 connector (pcs)	0	0	0
Average weight (g)	-	4.1	8.6
Note	Cable length 550 mm 550 mm 50 mm		

Battery

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	BT-DN300	BT-DN110-A	BT-DN110
Type	Internal battery	Internal battery	Internal battery
Chemistry	Li-Ion	Li-Ion	Li-Ion
Rated voltage (V)	7.4	7.4	7.4
Rated capacity (Ah)	0.5	0.5	0.5
Rated capacity (Wh)	3.7	3.7	3.7
Compatible charger	RD-R9250, RD-R8150, RD-R7150, RD-RX825	SM-BCR2	SM-BCR2
Master unit	✓	✓	✓
Firmware update by E-TUBE PROJECT	✓	✓	✓
SD50 port (pcs)	0	1	1
SD300 port (pcs)	3	0	0
SD50 connector (pcs)	0	0	0
SD300 connector (pcs)	0	0	0
Average weight (g)	52	50	50
Note			

Battery Mount

Series	SHIMANO	SHIMANO
Model no.	BM-DN100-S	BM-DN100-L
Specification	Short size battery mount	Long size battery mount
Wire routing	External/Internal	External
Master unit	✓	✓
Firmware update by E-TUBE PROJECT	✓	✓
SD50 port (pcs)	1	1
SD300 port (pcs)	0	0
SD50 connector (pcs)	0	0
SD300 connector (pcs)	0	0
Note	-	-

Battery Case

Series		SHIMANO
Model no.		SM-BTC1
Specification	w/ Junction	✓ *
	w/o Junction	✓
Mount		Screw on bottle cage mounting thread
Junction	SD50 port (pcs)	6 *
	SD300 port (pcs)	0
	SD50 connector (pcs)	0
	SD300 connector (pcs)	0
	Compatible battery	BT-DN110, BT-DN110-A
	Compatible electric wire	EW-SD50
	Battery charging port	-
Note		* w/ Junction spec include one special cable for connecting battery and junction

Battery Charger

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

Charger Cord

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

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

Series	SHIMANO
Model no.	SM-BCC1-13
Plug type	Type C
Typical example country/region	Thailand
Rated power input (V)	250
Cable length (m)	1
Note	

Charging Cable

Series	SHIMANO
Model no.	EW-EC300
USB connector	Type-A
Cable length (m)	1.5
Note	

PC Linkage Device

Series	SHIMANO
Model no.	SM-PCE02
USB port (pcs)	Micro-B: 1
SD50 port (pcs)	0
SD300 port (pcs)	0
SD50 connector (pcs)	0
SD300 connector (pcs)	0
PC link port (pcs)	1
LED	Green: 1
Note	

Cord Band

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		EW-CB300-S	EW-CB300-M	EW-CB300-L
Specification		Cord Band S	Cord Band M	Cord Band L
Compatible electric wire		EW-SD300	EW-SD300	EW-SD300
Handle bar diameter		ø22.2	ø31.8	ø35
Color	1	Black	Black	Black
	2	-	-	-
Note				

Cord Clip

Series		SHIMANO	SHIMANO
Model no.		EW-CL300-S	EW-CL300-M
Compatible electric wire		EW-SD300	EW-SD300
Clamp diameter		ø2.3/ø4 for shift outer casing	ø2.3/ø5 for brake hose
Color	1	Black	Black
	2	-	-
Note			

CAN Adapter

Series	SHIMANO	SHIMANO
Model no.	EW-EX310	EW-EX010
Type	CAN Adapter for Di2 (for general E-BIKE system)	CAN adapter for Di2 (for BOSCH ebike system)
Master unit	✓	✓
SD50 port (pcs)	0	2
SD300 port (pcs)	2	0
SD50 connector (pcs)	0	0
SD300 connector (pcs)	0	0
Compatible electric wire	EW-SD300	EW-SD50
Note		Di2 adapter B (for BOSCH ebike system)

Electric Cable for Non SHIMANO E-BIKE SYSTEMS

Series	SHIMANO
Model no.	EW-PS300
Type	E-BIKE
Compatible system	BOSCH Smart System
SD50 port (pcs)	0
SD300 port (pcs)	0
SD50 connector (pcs)	0
SD300 connector (pcs)	1 **
Cord diameter	-
Plug diameter	-
Note	* Cable length:1000mm, 1600mm ** Different shaped connector based on SD300 connector

E-BIKE

		Page	
	Cycle Computer	292	SC
	Switch Unit	294	SW
	Drive Unit	296	DU
	Drive Unit Cover	299	SMDU
	Speed Sensor Unit	301	SMDU
	Disc Brake Rotor	301	RT
	Crank Arm	302	FC
	Chainring	303	SMCR
	Chain Device	306	SMCD
	Battery	307	BT
	Battery Mount	313	BM
	Satellite System ON/OFF Switch	316	EWSW
	Satellite Charging Port	316	EWCP
	Battery Charger	317	EC
	Charging Adapter	319	SMBTE
	Chain Case Fixing Screw	319	SMDU
	CAN Cable	319	EWCA
<ABS>	ABS Main Unit	320	BSAU
	ABS Main Unit Mounting Parts Set	321	BSAS
	ABS Power Split Cable	321	BSAP
	ABS Wheel Speed Sensor Kit	322	BSSS
	PC Linkage Device for ABS	322	SMPCE
	Extension Cable for ABS	323	BSEW

Cycle Computer

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SC-EM800	SC-EN600	SC-EN610	SC-EN500	SC-E8000	SC-E7000
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Battery management system		First generation/ Second generation	Second generation	Second generation	Second generation	First generation	First generation
Mount position	Center on handlebar	-	-	✓	-	-	-
	Right on handlebar	✓	✓	-	-	✓	✓
	Others	-	* ✓	-	* ✓	-	-
Master unit		-	-	-	-	-	-
Wireless system		ANT private, Bluetooth®LE	-	-	-	ANT private, Bluetooth®LE	ANT private, Bluetooth®LE
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
SD50 port (pcs)		0	0	0	0	4	4
SD300 port (pcs)		4	3	3	1	0	0
SD50 connector (pcs)		0	0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0	0
Back light		✓	✓	✓	✓	✓	✓
LCD size (inch)		1.6	1.6	2.8	1.4	1.6	1.39
Beep		✓	-	✓	-	✓	✓
Display detachable		-	-	✓	-	-	-
Display fixation		✓	✓	-	✓	✓	✓
Display change button		✓	-	-	✓	✓	✓
Assist mode change (w/o switch unit)		✓	-	-	✓	-	✓
Reset button		-	-	-	-	-	-
Inside battery		✓	-	-	-	✓	✓
System on/off button		-	-	-	✓	-	-
Light on/off button		-	-	-	✓	-	-
Assist up/down button		-	-	-	✓	-	-
Auto start & auto stop		-	-	-	-	-	-
Contents of display	Clock	✓	✓	✓	-	✓	✓
	Assist mode display	✓	✓	✓	✓	✓	✓
	Assist on/off	✓	✓	✓	-	✓	✓
	Walk mode display	✓	✓	✓	✓	✓	✓
	Battery charge level	✓	✓	✓	✓	✓	✓
	Light condition	✓	✓	✓	-	-	-
	Current speed	✓	✓	✓	✓	✓	✓
	Gear position display	* ✓	✓	✓	✓	✓	✓
	Start mode	-	✓	✓	-	-	✓
	Automatic shift mode	* ✓	✓	✓	✓	-	✓
	Maximum speed	✓	✓	✓	-	** ✓	** ✓
	Average speed	✓	✓	✓	-	** ✓	** ✓
	Trip distance	✓	✓	✓	✓	✓	✓
	Trip time	✓	✓	✓	-	** ✓	** ✓
	Odometer	✓	✓	✓	✓	✓	✓
	Estimated range	✓	✓	✓	✓	✓	✓
	Range overview	✓	-	-	-	-	-
	Assist power indicator	✓	✓	✓	-	✓	-
	Error message	✓	✓	✓	✓	✓	✓
	Cadence (rpm)	✓	✓	✓	-	✓	** ✓
	Human output power	-	-	-	-	-	-
	Calorie	-	-	-	-	-	-
	Shifting advice	-	-	-	-	-	-
	Maintenance alert	✓	✓	✓	*** ✓	-	✓
	Bluetooth®LE connection status	✓	✓	✓	-	-	✓
	Assist profile	-	-	✓	-	-	-
Setting menu	Trip distance reset	✓	✓	✓	✓	✓	✓
	Odometer reset	✓	-	-	-	-	-
	Setting clear	✓	✓	✓	-	-	-
	Clock adjustment	✓	✓	✓	-	✓	✓
	Start mode	-	✓	✓	*** -	-	✓
	Shifting advise	-	-	✓	-	-	-
	Back light on/off	✓	✓	✓	*** -	-	-
	Light on/off	** ✓	✓	✓	*** -	✓	✓
	Back light brightness	✓	✓	✓	-	✓	-
	Beep on/off	✓	-	✓	-	✓	✓
	Unit (km/mile)	✓	✓	✓	** ✓	✓	✓
	Font color	-	-	-	-	-	✓
	Adjusting for shift	* ✓	✓	✓	*** -	* ✓	* ✓
	Adjusting for auto shift timing	-	-	✓	*** -	-	* ✓
	RD protection reset	* ✓	-	-	-	* ✓	* ✓
	Bluetooth®LE pairing	✓	✓	✓	-	✓	✓
	Bluetooth®LE/ANT connection status	-	-	-	-	✓	-
	Assist customize	✓	-	-	-	-	-
	Assist profile select	✓	✓	✓	-	-	✓
Language	English	✓	✓	✓	✓	✓	✓
	German	✓	✓	✓	-	✓	✓
	Dutch	✓	✓	✓	-	✓	✓
	French	✓	✓	✓	-	✓	✓
	Spanish	✓	✓	✓	-	✓	✓
	Italian	✓	✓	✓	-	✓	✓
Average weight (g)		39	24 (w/o clamp band) 36 (w/ ø31.8 clamp band) 37 (w/ ø35.0 clamp band)	97	40	41	32
Note		2 spec of clamp band diameter 31.8 and 35.0 mm. * In case of Di2 ** In combination with assist mode switch	2 spec of clamp band diameter 31.8 and 35.0 mm. *integrate specification Display contents are customized by E-TUBE PROJECT	Handle bar diameter: 25.4,31.8 and 35.0 mm(3spec) Display contents are customized by E-TUBE PROJECT	* Left on handlebar (normal specification and I-SPEC EV specification) ** Setting by E-TUBE PROJECT *** Drive unit setting by E-TUBE PROJECT	2 Spec of clamp band diameter: 31.8 and ø35.0 * In case of SEIS ** Option by E-TUBE PROJECT	* In case of SEIS ** Option by E-TUBE PROJECT

Cycle Computer

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SC-E6100	SC-E5000	SC-E5003	EW-EN100
Color	1	Black	Black	Black	Black
	2	-	-	-	-
	3	-	-	-	-
Battery management system		First generation	First generation	First generation	First generation
Mount position	Center on handlebar	✓	-	-	-
	Right on handlebar	-	-	-	-
	Others	-	* ✓	* ✓	✓
Master unit		-	-	-	-
Wireless system		ANT private, Bluetooth®LE	-	-	ANT private, Bluetooth®LE
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓
SD50 port (pcs)		3	1	0	2
SD300 port (pcs)		0	0	1	0
SD50 connector (pcs)		0	0	0	0
SD300 connector (pcs)		0	0	0	0
Back light		✓	✓	✓	-
LCD size (inch)		2.7	1.4	1.4	-
Beep		✓	-	-	-
Display detachable		✓	-	-	-
Display fixation		-	✓	✓	-
Display change button		✓	✓	✓	-
Assist mode change (w/o switch unit)		✓	✓	✓	✓
Reset button		-	-	-	-
Inside battery		✓	-	-	-
System on/off button		✓	-	-	-
Light on/off button		✓	✓	✓	✓
Assist up/down button		-	✓	✓	-
Auto start & auto stop		-	-	-	-
Contents of display	Clock	✓	-	-	-
	Assist mode display	✓	✓	✓	✓
	Assist on/off	✓	-	-	-
	Walk mode display	✓	✓	✓	✓
	Battery charge level	✓	✓	✓	✓
	Light condition	✓	-	-	-
	Current speed	✓	✓	✓	-
	Gear position display	✓	✓	✓	-
	Start mode	✓	-	-	-
	Automatic shift mode	✓	✓	✓	-
	Maximum speed	** ✓	-	-	-
	Average speed	** ✓	-	-	-
	Trip distance	✓	✓	✓	-
	Trip time	** ✓	-	-	-
	Odometer	✓	✓	✓	-
	Estimated range	✓	✓	✓	-
	Range overview	✓	-	-	-
	Assist power indicator	✓	-	-	-
	Error message	✓	✓	✓	✓
	Cadence (rpm)	** ✓	-	-	-
	Human output power	-	-	-	-
	Calorie	-	-	-	-
	Shifting advice	✓	-	-	-
	Maintenance alert	✓	*** ✓	*** ✓	-
	Bluetooth®LE connection status	✓	-	-	-
	Assist profile	-	-	-	-
Setting menu	Trip distance reset	✓	✓	✓	-
	Odometer reset	-	-	-	-
	Setting clear	✓	-	-	-
	Clock adjustment	✓	-	-	-
	Start mode	✓	*** -	*** -	-
	Shifting advise	✓	-	-	-
	Back light on/off	✓	*** -	*** -	-
	Light on/off	-	*** -	*** -	-
	Back light brightness	✓	-	-	-
	Beep on/off	✓	-	-	-
	Unit (km/mile)	✓	** ✓	** ✓	-
	Font color	✓	-	-	-
	Adjusting for shift	* ✓	*** -	*** -	* ✓
	Adjusting for auto shift timing	* ✓	*** -	*** -	-
	RD protection reset	* ✓	-	-	* ✓
	Bluetooth®LE pairing	✓	-	-	✓
	Bluetooth®LE/ANT connection status	-	-	-	-
	Assist customize	-	-	-	-
	Assist profile select	✓	-	-	-
Language	English	✓	✓	✓	-
	German	✓	-	-	-
	Dutch	✓	-	-	-
	French	✓	-	-	-
	Spanish	✓	-	-	-
	Italian	✓	-	-	-
Average weight (g)		110	40	39	6
Note		* In case of SEIS ** Option by E-TUBE PROJECT	* Left on handlebar (normal specification and I-SPEC EV specification) ** Setting by E-TUBE PROJECT *** Drive unit setting by E-TUBE PROJECT	* Left on handlebar (normal specification and I-SPEC EV specification) ** Setting by E-TUBE PROJECT *** Drive unit setting by E-TUBE PROJECT	* Set by switch operation in case of SEIS

Switch Unit

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			SW-EM800-L	SW-EN600-L	SW-EN600-R	SW-E8000-L	SW-E7000-L	SW-E7000-R
Switch type			-	-	-	FIREBOLT	-	-
Color	1		Black	Black	Black	Black	Black	Black
	2		-	-	-	-	-	-
	3		-	-	-	-	-	-
Battery management system			First generation/ Second generation	Second generation	Second generation	First generation	First generation	First generation
Usage			For assist	For assist	For SEIS shift	For assist	For assist	For SEIS shift
Right SW			-	-	✓	-	-	✓
Left SW			✓	✓	-	✓	✓	-
Button numbers (pcs)			2	5	3	2	2	2
Master unit			-	-	-	-	-	-
Firmware update by E-TUBE PROJECT			✓	✓	✓	✓	✓	✓
SD50 port (pcs)			0	0	0	1	0	0
SD300 port (pcs)			1	1	1	0	0	0
SD50 connector (pcs)			0	0	0	0	1	1
SD300 connector (pcs)			0	0	0	0	0	0
System On-Off			-	✓	-	-	-	-
Assist mode change			✓	✓	-	✓	✓	-
Display change			-	✓	-	-	-	-
Automatic/manual change			-	-	✓	-	-	✓
Light On-Off			-	✓	-	-	-	-
Multiple input	2 step		-	-	-	-	-	-
	Hold		* ✓	-	** ✓	✓	✓	✓
LED	Battery level		-	✓	-	-	-	-
	Assist status		-	✓	-	-	-	-
Wireless function	Bluetooth® LE custom (*1)	Di2 data items	-	✓	-	-	-	-
		SHIMANO E-BIKE SYSTEMS data items	-	✓	-	-	-	-
	ANT private (*2)	Di2 data items	-	✓	-	-	-	-
		SHIMANO E-BIKE SYSTEMS data items	-	✓	-	-	-	-
Average weight (g)			24.5	24	22	93.2	** 23.9	** 23.9
Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile.			* Set by E-TUBE PROJECT		** Available for rear derailleur			* Available for rear derailleur ** Cable length 700 mm spec. Cable length: 400 mm, 300 mm, 700 mm

Switch Unit

Series			SHIMANO	SHIMANO	SHIMANO
Model no.			SW-E6010-L	SW-E6010-R	SW-E6000
Switch type			-	-	-
Color	1		Black	Black	Black
	2		-	-	-
	3		-	-	-
Battery management system			First generation	First generation	First generation
Usage			For assist	For SEIS shift	* For assist or SEIS shift
Right SW			-	✓	✓
Left SW			✓	-	✓
Button numbers (pcs)			3	3	3
Master unit			-	-	-
Firmware update by E-TUBE PROJECT			✓	✓	✓
SD50 port (pcs)			0	0	0
SD300 port (pcs)			0	0	0
SD50 connector (pcs)			1	1	1
SD300 connector (pcs)			0	0	0
System On-Off			-	-	-
Assist mode change			✓	-	✓
Display change			✓	✓	* ✓
Automatic/manual change			✓	✓	* ✓
Light On-Off			*-	-	* ✓
Multiple input	2 step		-	-	-
	Hold		-	** ✓	-
LED	Battery level		-	-	-
	Assist status		-	-	-
Wireless function	Bluetooth® LE custom (*1)	Di2 data items	-	-	-
		SHIMANO E-BIKE SYSTEM S data items	-	-	-
	ANT private (*2)	Di2 data items	-	-	-
		SHIMANO E-BIKE SYSTEM S data items	-	-	-
Average weight (g)			31.3	31.3	25.5
Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile.			* By Setting Menu	** Available for rear derailleur	* Set by E-TUBE PROJECT

Drive Unit

Series		EP8	EP8	EP6	EP6	EP5	EP8
Model no.		DU-EP801	DU-EP801-CRG	DU-EP600	DU-EP600-CRG	DU-EP500	DU-EP800
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Battery management system		Second generation	Second generation	Second generation	Second generation	Second generation	First generation
Compatible brake type		Disc brake	Disc brake	Disc brake	Disc brake	V-BRAKE, Roller brake, Disc brake, Coaster brake	Disc brake
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position		Midship	Midship	Midship	Midship	Midship	Midship
Compatible wheel size (mm)		*1300-3000	*1300-3000	*1300-3000	*1300-3000	1300-3000	**1300-3000
Continuous rated power (Watt)		250	250	250	250	250	250
Maximum torque (Nm)		85	85	85	85	60	85
Maximum assist support(%)		400	400	400	400	400	400
Rated voltage		36 V DC	36 V DC	36 V DC	36 V DC	36 V DC	36 V DC
Di2 compatible	Internal geared hub	✓	✓	✓	✓	✓	✓
	Rear derailleur	✓	✓	✓	✓	✓	✓
Maximum support bike speed	24 km/h	-	-	-	-	-	-
	25 km/h	*✓	*✓	*✓	*✓	✓	** ✓
	20 mph	*✓	*✓	*✓	*✓	✓	** ✓
	28 mph	******✓	******✓	******✓	******✓	******✓	-
	Other	-	-	-	-	-	-
	Adjustment	-	-	-	-	-	* ✓
Riding characteristics	Dynamic	-	-	-	-	-	-
	Explorer	-	-	-	-	-	-
	Customize	-	-	-	-	-	-
	Sportive/Light off-road	-	-	-	-	-	-
	Comfort	-	-	-	-	-	-
	Basic mode	✓	✓	✓	✓	✓	✓
	Finetune mode	✓	✓	✓	✓	✓	✓
Assist customize	Number of profile	2	2	2	2	2	2
Assist mode	BOOST	✓	✓	✓	✓	✓	✓
	HIGH	✓	✓	✓	✓	✓	-
	TRAIL	✓	✓	✓	✓	✓	✓
	NORMAL	✓	✓	✓	✓	✓	-
	ECO	✓	✓	✓	✓	✓	✓
Power supply for front light		12 V DC	12 V DC	12 V DC	12 V DC	12 V DC	12 V DC
Power supply for rear light		12 V DC	12 V DC	12 V DC	12 V DC	12 V DC	12 V DC
Maximum current supply front and rear light total (A)		2.0	2.0	2.0	2.0	2.0	2.0
Power supply and maximum current for ACC		13.5 V DC / 2.0 A	13.5 V DC / 2.0 A	13.5 V DC / 2.0 A	13.5 V DC / 2.0 A	-	-
Power supply and maximum current for CAN port		12 V DC / 2.0 A	12 V DC / 2.0 A	12 V DC / 2.0 A	12 V DC / 2.0 A	-	-
Safe way home function		✓	✓	✓	✓	✓	✓
Communication		E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE
Master unit		✓	✓	✓	✓	✓	✓
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
SD50 port (pcs)		0	0	0	0	0	0
SD300 port (pcs)		3	3	3	3	2	2
SD50 connector (pcs)		0	0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0	0
Terminal for light (pcs)		1	1	1	1	1	1
Port for electric devices (pcs)		***2	***2	***2	***2	0	0
Port for Speed Sensor (pcs)	SD50 type	0	0	0	0	0	0
	SD300 type	1	1	1	1	1	1
Chain case compatible		✓	✓	✓	✓	✓	-
Chain device compatible		✓	✓	✓	✓	✓	✓
Torque sensor		✓	✓	✓	✓	✓	✓
Crank arm position sensor		✓	✓	✓	✓	✓	✓
Bike speed sensor		****✓	****✓	****✓	****✓	****✓	*** ✓
Cadence sensor		✓	✓	✓	✓	✓	✓
Walk assist function	On/Off	*✓	*✓	*✓	*✓	*✓	** ✓
	Standard	-	-	-	-	-	-
	Intelligent	*****✓	*****✓	*****✓	*****✓	*****✓	* ✓
	Quick	✓	✓	✓	✓	✓	✓
Automatic shift	Internal geared hub 11-speed	-	-	-	-	-	-
	Internal geared hub 8-speed	*****✓	✓	*****✓	✓	*****✓	* ✓
	Internal geared hub 7-speed	-	-	-	-	-	-
	Internal geared hub 5-speed (INTER-5E)	*****✓	✓	*****✓	✓	*****✓	* ✓
	Rear derailleur	*****✓	✓	*****✓	✓	*****✓	-
SYMPHOMATIC	Internal geared hub	✓	✓	✓	✓	✓	* ✓
	Rear derailleur	✓	✓	✓	✓	✓	-
FREE SHIFT		✓	✓	✓	✓	-	-
Electronic shift by drive unit control		✓	✓	✓	✓	✓	-
Compatible spindle type		24mm narrow	24mm narrow	24mm narrow	24mm narrow	24mm narrow	24mm narrow
Drive unit fixing screw (pcs)		6	6	6	6	6	6
Average weight (kg)		2.7	2.7	3.0	3.0	3.0	2.6
Note		*Set by E-TUBE PROJECT **Can be selected by E-TUBE PROJECT Factory. Boost/Trail/Eco or High/Normal/Eco ***CAN translation:1 AUX:1 ****In combination with EW-SS300/ SS301/SS302 *****In case of Di2 ******US Class 3 (comply with California) only	For CARGO bike *Set by E-TUBE PROJECT **Can be selected by E-TUBE PROJECT Factory. Boost/Trail/Eco or High/Normal/Eco ***CAN translation:1 AUX:1 ****In combination with EW-SS300/ SS301/SS302 *****In case of Di2 ******US Class 3 (comply with California) only	*Set by E-TUBE PROJECT **Can be selected by E-TUBE PROJECT Factory. Boost/Trail/Eco or High/Normal/Eco ***CAN translation:1 AUX:1 ****In combination with EW-SS300/ SS301/SS302 *****In case of Di2 ******US Class 3 (comply with California) only	For CARGO bike *Set by E-TUBE PROJECT **Can be selected by E-TUBE PROJECT Factory. Boost /Trail/Eco or High/Normal/Eco ***CAN translation:1 AUX:1 ****In combination with EW-SS300/ SS301/SS302 *****In case of Di2 ******US Class 3 (comply with California) only	* Set by E-TUBE PROJECT ** Can be selected by E-TUBE PROJECT Factory **** In combination with EWSS300/ SS301/SS302 ***** In case of Di2 ****** US Class3(comply with California)only	* In case of Di2 ** Set by E-TUBE PROJECT *** By using EW-SS300 EW-SS301

Drive Unit

Series		EP8	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-EP800-CRG	DU-E8000	DU-E8080	DU-E7000	DU-E6100	DU-E6100-CRG
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Battery management system		First generation	First generation	First generation	First generation	First generation	First generation
Compatible brake type		Disc brake	Disc brake/V-BRAKE	Disc brake	Disc brake/V-BRAKE	V-BRAKE, Roller brake, Disc brake	Disc brake
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position		Midship	Midship	Midship	Midship	Midship	Midship
Compatible wheel size (mm)		**1300-3000	*1300-3000	*1300-3000	*1300-3000	*1300-3000	**1300-3000
Continuous rated power (Watt)		250	250	250	250	250	250
Maximum torque (Nm)		85	70	70	60	60	60
Maximum assist support(%)		400	-	-	-	-	-
Rated voltage		36 V DC	36 V DC	36 V DC	36 V DC	36 V DC	36 V DC
Di2 compatible	Internal geared hub	✓	-	-	-	✓	✓
	Rear derailleur	✓	*✓	*✓	✓	✓	✓
Maximum support bike speed	24 km/h	-	-	✓	*✓	* ✓	-
	25 km/h	** ✓	*✓	-	*✓	* ✓	** ✓
	20 mph	** ✓	*✓	-	*✓	* ✓	** ✓
	28 mph	-	-	-	-	-	-
	Other	-	-	-	-	-	-
	Adjustment	-	-	-	* ✓	* ✓	** ✓
Riding characteristics	Dynamic	-	*✓	-	*✓	-	-
	Explorer	-	*✓	-	*✓	-	-
	Customize	-	*✓	-	*✓	-	-
	Sportive/Light off-road	-	-	-	-	* ✓	** ✓
	Comfort	-	-	✓	-	* ✓	** ✓
	Basic mode	✓	-	-	-	-	-
	Finetune mode	✓	-	-	-	-	-
Assist customize	Number of profile	2	1	1	1	1	1
Assist mode	BOOST	✓	✓	-	✓	-	-
	HIGH	-	-	✓	-	✓	✓
	TRAIL	✓	✓	-	✓	-	-
	NORMAL	-	-	✓	-	✓	✓
	ECO	✓	✓	✓	✓	✓	✓
Power supply for front light		12 V DC	6 V DC	6 V DC	12 V DC	12 V DC	12 V DC
Power supply for rear light		12 V DC	6 V DC	6 V DC	12 V DC	12 V DC	12 V DC
Maximum current supply front and rear light total (A)		2.0	2.0	2.0	2.0	2.0	2.0
Power supply and maximum current for ACC		-	-	-	-	-	-
Power supply and maximum current for CAN port		-	-	-	-	-	-
Safe way home function		✓	✓	✓	✓	✓	✓
Communication		E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE
Master unit		✓	✓	✓	✓	✓	✓
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
SD50 port (pcs)		0	2	2	2	2	2
SD300 port (pcs)		2	0	0	0	0	0
SD50 connector (pcs)		0	0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0	0
Terminal for light (pcs)		1	1	1	1	1	1
Port for electric devices (pcs)		0	0	0	0	0	0
Port for Speed Sensor (pcs)	SD50 type	0	1	1	1	1	1
	SD300 type	1	0	0	0	0	0
Chain case compatible		-	-	-	-	✓	✓
Chain device compatible		✓	✓	✓	✓	-	-
Torque sensor		✓	✓	✓	✓	✓	✓
Crank arm position sensor		✓	✓	✓	✓	✓	✓
Bike speed sensor		*** ✓	** ✓	** ✓	** ✓	** ✓	*** ✓
Cadence sensor		✓	✓	✓	✓	✓	✓
Walk assist function	On/Off	** ✓	✓	-	*✓	* ✓	** ✓
	Standard	-	✓	-	-	-	-
	Intelligent	* ✓	*** ✓	-	**✓	*** ✓	* ✓
	Quick	✓	✓	-	✓	✓	✓
Automatic shift	Internal geared hub 11-speed	-	-	-	-	-	-
	Internal geared hub 8-speed	* ✓	-	-	-	✓	✓
	Internal geared hub 7-speed	-	-	-	-	-	-
	Internal geared hub 5-speed (INTER-5E)	* ✓	-	-	-	✓	✓
	Rear derailleur	-	-	-	-	-	-
SYMPHOMATIC	Internal geared hub	* ✓	-	-	-	✓	✓
	Rear derailleur	-	-	-	-	-	-
FREE SHIFT		-	-	-	-	-	-
Electronic shift by drive unit control		-	-	-	-	-	-
Compatible spindle type		24mm narrow	24mm	24mm	24mm	24mm	24mm
Drive unit fixing screw (pcs)		6	-	-	-	-	-
Average weight (kg)		2.6	2.88	2.89	2.79	2.76	2.76
Note		* In case of Di2 ** Set by E-TUBE PROJECT *** By using EW-SS300 EW-SS301	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** By using RD-M9050/RD-M8050	* Set by E-TUBE PROJECT ** By using SM-DUE11	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** By using RD-M9050/RD-M8050	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** Only in combination with Di2	* In case of DI2 **Set by E-TUBE PROJECT ***By using SM-DUE10/SM-DUE11

Drive Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-E6110	DU-E6180	DU-E5100	DU-E5000	DU-E5080	DU-E5080-H
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Battery management system		First generation	First generation	First generation	First generation	First generation	First generation
Compatible brake type		Coaster brake	V-BRAKE, Roller brake, Disc brake	V-BRAKE, Roller brake, Disc brake, Coaster brake	V-BRAKE, Roller brake, Disc brake, Coaster brake	V-BRAKE, Roller brake, Disc brake, Coaster brake	V-BRAKE, Roller brake, Disc brake, Coaster brake
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position		Midship	Midship	Midship	Midship	Midship	Midship
Compatible wheel size (mm)		*1300-3000	*1300-3000	1300-3000	*1300-3000	*1300-3000	*1300-3000
Continuous rated power (Watt)		250	250	250	250	250	250
Maximum torque (Nm)		60	60	50	40	40	40
Maximum assist support(%)		-	-	300	-	-	-
Rated voltage		36 V DC	36 V DC	36 V DC	36 V DC	36 V DC	36 V DC
Di2 compatible	Internal geared hub	✓	✓	✓	✓	✓	✓
	Rear derailleur	-	✓	✓	✓	✓	✓
Maximum support bike speed	24 km/h	-	✓	-	-	✓	✓
	25 km/h	*✓	-	✓	*✓	-	-
	20 mph	*✓	-	✓	*✓	-	-
	28 mph	-	-	-	-	-	-
	Other	-	-	-	-	-	-
	Adjustment	*✓	*✓	-	*✓	*✓	*✓
Riding characteristics	Dynamic	-	-	-	-	-	-
	Explorer	-	-	-	-	-	-
	Customize	-	-	-	-	-	-
	Sportive/Light off-road	*✓	*✓	✓	*✓	-	✓
	Comfort	*✓	*✓	✓	✓	✓	-
	Basic mode	-	-	-	-	-	-
	Finetune mode	-	-	-	-	-	-
Assist customize	Number of profile	1	1	1	1	1	1
Assist mode	BOOST	-	-	-	-	-	-
	HIGH	✓	✓	✓	✓	✓	✓
	TRAIL	-	-	-	-	-	-
	NORMAL	✓	✓	✓	✓	✓	✓
	ECO	✓	✓	✓	✓	✓	✓
Power supply for front light		12 V DC	12 V DC	12 V DC	12 V DC	12 V DC	12 V DC
Power supply for rear light		12 V DC	12 V DC	12 V DC	12 V DC	12 V DC	12 V DC
Maximum current supply front and rear light total (A)		2.0	2.0	2.0	2.0	2.0	2.0
Power supply and maximum current for ACC		-	-	-	-	-	-
Power supply and maximum current for CAN port		-	-	-	-	-	-
Safe way home function		✓	✓	✓	✓	✓	✓
Communication		E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE
Master unit		✓	✓	✓	✓	✓	✓
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
SD50 port (pcs)		2	2	1	1	1	1
SD300 port (pcs)		0	0	0	0	0	0
SD50 connector (pcs)		0	0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0	0
Terminal for light (pcs)		1	1	1	1	1	1
Port for electric devices (pcs)		0	0	0	0	0	0
Port for Speed Sensor (pcs)	SD50 type	1	1	1	1	1	1
	SD300 type	0	0	-	0	0	0
Chain case compatible		✓	✓	✓	✓	✓	✓
Chain device compatible		-	-	-	-	-	-
Torque sensor		✓	✓	✓	✓	✓	✓
Crank arm position sensor		✓	✓	-	-	-	-
Bike speed sensor		** ✓	** ✓	** ✓	** ✓	** ✓	** ✓
Cadence sensor		✓	✓	-	-	-	-
Walk assist function	On/Off	* ✓	-	*✓	*✓	-	-
	Standard	-	-	-	-	-	-
	Intelligent	***✓	-	***✓	***✓	-	-
	Quick	✓	-	✓	✓	-	-
Automatic shift	Internal geared hub 11-speed	-	-	-	-	-	-
	Internal geared hub 8-speed	✓	✓	***✓	✓	✓	✓
	Internal geared hub 7-speed	-	-	-	-	-	-
	Internal geared hub 5-speed (INTER-5E)	✓	✓	***✓	✓	✓	✓
	Rear derailleur	-	-	-	-	-	-
SYMPHOMATIC	Internal geared hub	✓	✓	✓	✓	✓	✓
	Rear derailleur	-	-	-	-	-	-
FREE SHIFT		-	-	-	-	-	-
Electronic shift by drive unit control		-	-	✓	✓	✓	✓
Compatible spindle type		24mm	24mm	Square	Square	Square	Square
Drive unit fixing screw (pcs)		-	-	6	-	-	-
Average weight (kg)		2.7	2.81	2.38	2.38	2.38	2.38
Note		* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** Only in combination with Di2	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11	* Set by E-TUBE PROJECT ** In combination with SM-DUE10/SM-DUE11 *** Only in combination with Di2	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** Only in combination with Di2	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11

Drive Unit Cover

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DC-EP801-A	DC-EP801-B	DC-EP801-G	DC-EP800-A	DC-EP800-B	DC-EP800-G
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Cover	Right	-	-	-	-	-	-
	Left	✓	✓	-	✓	✓	-
	Bottom	-	-	✓	-	-	✓
	Front	-	-	-	-	-	-
	Connector	-	-	-	-	-	-
Available drive unit angle (deg.)		0-60	0-60	0-60	0-60	0-60	0-60
Note					-	-	-

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-DUE80-A	SM-DUE80-B	SM-DUE70-A	SM-DUE70-B	SM-DUE70-C	SM-DUE61-T
Color	1	Gray	Gray	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Cover	Right	✓	✓	✓	✓	-	✓
	Left	✓	✓	✓	✓	✓	✓
	Bottom	-	-	-	-	-	-
	Front	-	-	-	-	-	-
	Connector	-	-	-	-	-	-
Available drive unit angle (deg.)		0-60	0-60	0-60	0-60	0-60	0-60
Note		Standard cover	Mount screw cover	-	-	-	-

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-DUE61-TCRG	SM-DUE61-TC	SM-DUE61-C	SM-DUE61-CCRG	SM-DUE61-CC	SM-DUE60
Color	1	Black	Black	Black	Black	Black	Gray
	2	-	-	-	-	-	Black
	3	-	-	-	-	-	-
Cover	Right	✓	✓	✓	✓	✓	✓
	Left	✓	✓	✓	✓	✓	-
	Bottom	-	-	-	-	-	-
	Front	-	-	-	-	-	-
	Connector	-	-	-	-	-	-
Available drive unit angle (deg.)		0-60	0-60	0-60	0-60	0-60	0
Note		CARGO logo for DU-E6100-CRG	-	-	CARGO logo for DU-E6100-CRG	-	-

Drive Unit Cover

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-DUE60-45	SM-DUE60-A	SM-DUE60-45A	SM-DUE50-T	SM-DUE50-TC	SM-DUE50-C
Color	1	Gray	Gray	Gray	Black	Black	Black
	2	Black	Black	Black	-	-	-
	3	-	-	-	-	-	-
Cover	Right	✓	✓	✓	✓	-	✓
	Left	-	-	-	✓	✓	✓
	Bottom	-	-	-	-	-	-
	Front	-	-	-	-	-	-
	Connector	-	-	-	-	-	-
Available drive unit angle (deg.)		45	0	45	0-60	0-60	0-60
Note		-	For internal cable routing	For internal cable routing	-	-	-

Series		SHIMANO
Model no.		SM-DUE50-CC
Color	1	Black
	2	-
	3	-
Cover	Right	-
	Left	✓
	Bottom	-
	Front	-
	Connector	-
Available drive unit angle (deg.)		0-60
Note		-

Speed Sensor Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EW-SS302	EW-SS301	EW-SS300	SM-DUE11	SM-DUE10
Brake spec	Disc	✓	✓	✓	✓	✓
	Rim	-	-	✓	-	✓
Color	1	Black	Black	Black	Black	Black
	2	-	-	-	-	-
	3	-	-	-	-	-
Battery management system		Second generation	Second generation	Second generation	First generation	First generation
Magnet type	Spoke fixing type	-	-	✓	-	✓
	Magnet integrated rotor	-	✓	-	✓	-
	Magnet integrated lock ring	✓	-	-	-	-
	Magnet bracket for 6-bolt rotor	-	-	-	-	-
SD50 connector (pcs)		0	0	0	1	1
SD300 connector (pcs)		1	1	1	0	0
Cable length (mm)	340	-	-	✓	-	✓
	540	-	-	✓	-	✓
	760	✓	✓	✓	✓	✓
	1400	✓	✓	✓	-	✓
Note		w/o Magnet set	w/o Magnet set	Spoke magnet set included	w/o Magnet set	Spoke magnet set included

Disc Brake Rotor

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			RT-EM910	RT-EM810	RT-EM600	RT-EM300
CENTER LOCK			✓	✓	✓	✓
6-bolt (P.C.D. 44 mm)			-	-	-	-
ICE TECHNOLOGIES			✓	✓	-	-
ICE TECHNOLOGIES FREEZA			✓	✓	-	-
Outside diameter (mm)	203		✓*	✓*	✓*	✓*
	180		✓*	✓*	✓*	✓*
	160		✓*	✓*	✓*	✓*
	140		-	-	-	-
Alloy lock ring			✓	✓	-	-
Adapter	Material		Aluminum	Aluminum	Aluminum	Steel
	Finish		Painted	Painted	Painted	Painted
Rotor	Material		Stainless steel+Aluminum+Stainless steel	Stainless steel+Aluminum+Stainless steel	Stainless steel	Stainless steel
	Finish		Polished	Polished	Polished	Polished
Pad material compatibility	Metal		✓	✓	✓	-
	Resin		✓	✓	✓	✓
Lock ring	Internal type	Material	Aluminum	Aluminum	Steel	-
		Finish	Anodized	Anodized	Plated	-
	External type	Material	Aluminum	Aluminum	Steel	-
		Finish	Anodized	Anodized	Plated	-
	Internal/external type	Material	-	-	-	Steel
		Finish	-	-	-	Painted
Average weight (g) (w/o lock ring)			113 (160 mm), 140 (180 mm), 154 (203 mm)	113 (160 mm), 140 (180 mm), 166 (203 mm)	-	-
Note			* For rear only with magnet bracket Painted fin	* For rear only with magnet bracket	* For rear only with magnet bracket	* For rear only with magnet bracket

Crank Arm

Series		SHIMANO	SHIMANO	SHIMANO	DEORE XT	DEORE XT	SHIMANO
Model no.		FC-EM900	FC-EM600	FC-EN500	FC-M8150	FC-M8050	FC-E8050
Color	1	Black	Black	Black	Series color	Series color	Black
	2	-	-	Silver	-	-	-
	3	-	-	-	-	-	-
Crank arm type	HOLLOWTECH	✓	-	-	✓	✓	✓
	Solid	-	✓	✓	-	-	-
Q factor (mm)		177 (DU-EP800)	177 (DU-EP800)	178	177 (DU-EP800)	177, 180 *	177, 180 *
Chain case compatible		✓	✓	✓	✓	✓ *	✓ *
Crank arm length (mm)	175	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	165	✓	✓	-	✓	✓	-
	160	✓	✓	-	✓	-	-
	Others	-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Anodized	Anodized	Anodized
BB type		24mm narrow	24mm narrow	24mm narrow	24mm narrow	24mm	24mm
Average weight (g)		-	-	-	-	-	-
Note		-	-	-	-	* In case with DU-E6100/E6110/E6180/E7000	* In case with DU-E6100/E6110/E6180/E7000

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-E8000	FC-E6100	FC-E6010	FC-E5000	FC-E5010
Color	1	Black	Silver	Black	Silver	Black
	2	-	Black	Gray	-	-
	3	-	-	-	-	-
Crank arm type	HOLLOWTECH	-	-	-	-	-
	Solid	✓	✓	✓	✓	✓
Q factor (mm)		177, 180 *	180	213	185	185
Chain case compatible		✓ *	✓	✓	✓	✓
Crank arm length (mm)	175	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-
	170	✓	✓	✓	✓	✓
	165	✓	-	-	✓	✓
	160	✓	-	-	-	-
	Others	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Painted	Painted	Painted
BB type		24mm	24mm	Square	Square	Square
Average weight (g)		-	-	-	-	-
Note		* In case with DU-E6100/E6110/E6180/E7000	-	-	-	-

Chainring

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		CR-EM800	CR-ET600	SM-CRE80-12-B	SM-CRE80-12-SB	SM-CRE80-B	SM-CRE80-R
Color	1	Black	Silver (w/o chain guard)	Black	Black	Black	Black
	2	-	Black (w/o chain guard)	-	-	-	-
	3	-	-	-	-	-	-
Gear speed		1	1	1	1	1	1
Rear speed	12-speed	✓	-	✓	✓	-	-
	11-speed	-	✓	-	-	✓	✓
	10-speed	-	✓	-	-	✓	✓
	9-speed	-	✓	-	-	-	-
	8-speed	-	-	-	-	-	-
	7-speed	-	-	-	-	-	-
	5-speed	-	-	-	-	-	-
	Single	-	✓	-	-	-	-
Compatible chain		HG 12-speed	LINKGLIDE, HG 11-speed, HG-X 10-speed*, HG 9-speed*	HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed, HG-X 10-speed*	HG 12-speed, LINKGLIDE, HG 11-speed, HG-X 10-speed*
DYNAMIC CHAIN ENGAGEMENT+		✓	-	✓	✓	✓	-
Chainring teeth	Combination	-	-	-	-	-	-
	47T	-	-	-	-	-	✓
	44T	-	✓	-	-	-	-
	42T	-	-	-	-	-	-
	40T	-	-	-	-	-	-
	38T	-	✓	✓	-	✓	-
	36T	-	-	✓	✓	-	-
	34T	-	-	✓	✓	✓	-
	32T	✓	-	-	-	-	-
	Others	-	-	-	-	-	-
Chain guard type	Double	-	✓	-	-	-	-
	Single	-	✓	-	-	-	-
	w/o chain guard	✓	✓	✓	✓	✓	✓
Chainring fixing lock nut		Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit
Arm cover outer diameter (mm)		-	-	-	-	-	-
Chain device compatible		✓	-	✓	✓	✓	SM-CDE80 (frame mount)
Chain case compatible		-	✓	-	-	-	-
Chain line (mm)	56.5	-	-	-	✓	-	-
	55	✓	-	✓	-	✓	-
	53	-	-	✓	-	✓	-
	50	-	✓	-	-	-	✓
	49.7	-	-	-	-	-	-
	47	-	-	-	-	-	-
	46.5	-	-	-	-	-	-
Belt line (mm)	46	-	-	-	-	-	-
	43	-	-	-	-	-	-
P.C.D. (mm)		96	104	104	104	104	104
Chainring	Material	Steel	Steel	Steel	Steel	Steel	Aluminum
	Finish	Painted	Painted	Plated	Plated	Plated	Anodized
Spider arm	Material	Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	-	Anodized	Anodized	Anodized	Anodized
Chainring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	SP Black	-	SP Black	SP Black	SP Black	SP Black
Spider/gear arms		4	4	4	4	4	4
Average weight (g)		-	-	-	-	-	-
Note			* E-BIKE rear derailleur system compatible chain			* E-BIKE rear derailleur system compatible chain	* E-BIKE rear derailleur system compatible chain

Chainring

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-CRE80	SM-CRE70-12-B	SM-CRE70-12	SM-CRE70-B	SM-CRE70	SM-CRE61
Color	1	Black	Black	Black	Black	Black	Dark Gray
	2	-	-	-	-	-	Silver (w/o CG only) *
	3	-	-	-	-	-	Black (w/o CG only) *
Gear speed		1	1	1	1	1	1
Rear speed	12-speed	-	✓	✓	-	-	-
	11-speed	✓	-	-	✓	✓	✓
	10-speed	✓	-	-	✓	✓	✓
	9-speed	-	-	-	✓	✓	✓
	8-speed	-	-	-			
	7-speed	-	-	-			
	5-speed	-	-	-			
	Single	-	-	-	-	-	✓
Compatible chain		LINKGLIDE, HG 11-speed, HG-X 10-speed*	HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed, HG-X 10-speed*, HG 9speed*	LINKGLIDE, HG 11-speed, HG-X 10-speed*, HG 9speed*	HG-X 10-speed**, HG 9-speed**, HG 8/7/6-speed, Single speed
DYNAMIC CHAIN ENGAGEMENT+		✓ (38T, 34T)	-	-	-	-	-
Chainring teeth	Combination	-	-	-	-	-	-
	47T	-	-	-	-	-	-
	44T	✓	-	-	-	-	✓
	42T	-	-	✓	-	-	-
	40T	-	-	-	-	-	-
	38T	✓	-	-	-	✓	✓
	36T	-	✓	-	-	-	-
	34T	✓	-	-	✓	-	-
	32T	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Chain guard type	Double	**✓	-	✓	-	✓	✓
	Single	-	-	-	-	-	✓
	w/o chain guard	✓	✓	-	✓	✓	✓
Chainring fixing lock nut		Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit
Arm cover outer diameter (mm)		-	-	-	-	-	95 (w/o chain guard only)
Chain device compatible		✓	✓	-	✓	✓	-
Chain case compatible		-	-	-	-	-	✓
Chain line (mm)	56.5	-	-	-	-	-	-
	55	-	✓	-	✓	-	-
	53	-	✓	-	✓	-	-
	50	✓	-	✓	-	✓	-
	49.7	-	-	-	-	-	-
	47	-	-	-	-	-	-
	46.5	-	-	-	-	-	✓
Belt line (mm)	46	-	-	-	-	-	-
	43	-	-	-	-	-	-
P.C.D. (mm)		104	104	104	104	104	-
Chainring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Painted	Painted	Painted	Painted	Painted
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum (chain line: 55 mm), Steel (chain line: 53 mm)	Aluminum	-
	Finish	Anodized	Painted	Painted	Painted	Anodized	-
Chainring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	SP Black	SP Black	SP Black	SP Black	SP Black	-
Spider/gear arms		4	4	4	4	4	4
Average weight (g)		-	-	-	-	-	-
Note		* E-BIKE rear derailleur system compatible chain ** 44T only			* E-BIKE rear derailleur system compatible chain	* E-BIKE rear derailleur system compatible chain * w/o CG, w/o back plate	* Color of arm cover ** E-BIKE rear derailleur system compatible chain

Chainring

Series		SHIMANO
Model no.		SM-CRE50
Color	1	Dark Gray
	2	-
	3	-
Gear speed		1
Rear speed	12-speed	-
	11-speed	✓
	10-speed	✓
	9-speed	✓
	8-speed	
	7-speed	
	5-speed	
	Single	✓
Compatible chain		LINKGLIDE, HG 11-speed, HG-X 10-speed*, HG 9-speed*, HG 8/7/6-speed, Single speed
DYNAMIC CHAIN ENGAGEMENT+		-
Chainring teeth	Combination	-
	47T	-
	44T	✓
	42T	-
	40T	-
	38T	✓
	36T	-
	34T	-
	32T	-
	Others	-
Chain guard type	Double	✓
	Single	✓
	w/o chain guard	✓
Chainring fixing lock nut		Included in drive unit
Arm cover outer diameter (mm)		95 (w/o chain guard only)
Chain device compatible		-
Chain case compatible		✓
Chain line (mm)	56.5	-
	55	-
	53	-
	50	-
	49.7	-
	47	-
	46.5	✓
Belt line (mm)	46	-
	43	-
P.C.D. (mm)		-
Chainring	Material	Steel
	Finish	Painted
Spider arm	Material	-
	Finish	-
Chainring fixing bolt	Material	Stainless steel
	Finish	-
Spider/gear arms		4
Average weight (g)		-
Note		* E-BIKE rear derailleur system compatible chain

Chain Device

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CD-EM800	SM-CDE80	SM-CDE70
Color	1	Black	Black	Black
	2	-	-	-
	3	-	-	-
Chain line (mm)	56.5	✓* (w/ plate type), ✓ (w/o plate type)	-	-
	55	✓** (w/ plate type), ✓ (w/o plate type)	-	-
	53	✓ (w/ plate type), ✓ (w/o plate type)	✓ (w/ plate type), ✓ (w/o plate type)	✓
	50	-	- (w/ plate type), ✓ (w/o plate type)	-
Chain compatibility	12-speed	✓	✓	✓
	11-speed	✓	✓	✓
	10-speed	-	✓	✓
	9-speed	-	-	✓
Top gear teeth	38T	✓ (w/ plate type), - (w/o plate type)	✓	✓
	36T	✓ (w/ plate type), - (w/o plate type)	✓	✓
	34T	✓ (w/ plate type), - (w/o plate type)	✓	✓
	32T	- (w/ plate type), ✓ (w/o plate type)	-	-
	30T	- (w/ plate type), ✓ (w/o plate type)	-	-
Assumed rear sprocket teeth	10-45T	✓	✓	✓
	10-51T	✓	✓	✓
	11-36T	-	✓	✓
	11-40T	✓	✓	✓
	11-42T	✓	✓	✓
	11-46T	✓	✓	✓
	11-50T	✓	-	-
	Others	-	-	-
Direct mount to drive unit		✓ (w/ plate type), - (w/o plate type)	✓ (w/ plate type), - (w/o plate type)	✓
Compatible drive unit		DU-EP801, DU-EP800, DU-EP600, DU-E8000, DU-E8080, DU-E7000	DU-EP800 DU-E8000 DU-E8080 DU-E7000	DU-EP800 DU-E8000 DU-E8080 DU-E7000
Rear suspension stroke (mm)		0 - 170	0 - 170	0 - 170
Back plate	Material	Aluminum (w/ plate type), - (w/o plate type)	Aluminum (w/ plate type), - (w/o plate type)	Steel
	Finish	Anodized (w/ plate type), - (w/o plate type)	Anodized (w/ plate type), - (w/o plate type)	Painted
Chain guide	Material	Resin	Resin	Resin
	Finish	-	-	-
Note		* w/ spacer for chain line 56.5mm. ** w/ spacer for chain line 55mm.	w/ Plate, w/o Plate type are available	w/ plate

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-EN817-B	BT-EN805-A	BT-EN805-L-A	BT-EN806-A	BT-EN604-A	BT-EN605-A
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		✓	✓	✓	✓	✓	✓
Battery management system		Second generation	Second generation	Second generation	Second generation	Second generation	Second generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Integrated	Integrated	Integrated	Integrated	Down tube/Seat tube	Down tube/Seat tube
Nominal voltage (V)		36.3	36	36	36	36	36
Capacity (Ah)		19.6	14	14	17.5	11.6	14
Rated capacity (Ah)		19.6	13	13	16.2	10.9	13
Energy Content (Wh)		712	504	504	630	418	504
Rated capacity (Wh)		712	468	468	583	393	468
Cyclelife span for charge (times)		1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
Time to charge (hour)	SOC = 100%	*5.2	* 4 (** 4.5)	* 4 (** 4.5)	* 4.8 (** 5.7)	* 3.0 (** 3.5)	* 4 (** 4.5)
	SOC = 80%	* 3.4	* 2.5 (** 3.2)	* 2.5 (** 3.2)	* 3.2 (** 4)	* 2.0 (** 2.5)	* 2.5 (** 3.2)
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		** -	*** -	*** -	*** -	✓	✓
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-EN810-A	BM-EN800-A BM-EN800-B BM-EN801-A BM-EN801-B	BM-EN800-A BM-EN800-B BM-EN801-A BM-EN801-B	BM-EN800-A BM-EN800-B BM-EN801-A BM-EN801-B	BM-EN600	BM-EN600
Compatible charger		EC-EN814	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004
Compatible adaptor for charge		SM-BTE81	SM-BTE80	SM-BTE80	SM-BTE80	-	-
Average weight (kg)		4.2	2.9	3.15	3.7	2.6	2.55
Note		* By EC-EN814 ** with SM-BTE81 and EW-CP110 or EW-CP111	* By EC-E8004 (** In case of 100 V AC) *** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC) *** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC) *** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-EN606-A	BT-EN404-A	BT-EN405-A	BT-E8010-A	BT-E8014-A	BT-E8016-A
Color	1	Black	Black	Black	Black	Black	Black
	2	-	Gray	Gray	-	-	-
	3	-	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		✓	✓	✓	✓	✓	✓
Battery management system		Second generation	Second generation	Second generation	First generation	First generation	First generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Down tube/Seat tube	Rear carrier	Rear carrier	Down tube/Seat tube	Down tube/Seat tube	Down tube/Seat tube
Nominal voltage (V)		36	36	36	36	36	36
Capacity (Ah)		17.5	11.6	14	* 14	* 11.6	* 17.5
Rated capacity (Ah)		16.2	10.9	13	13	10.9	16.2
Energy Content (Wh)		630	418	504	* 504	* 418	* 630
Rated capacity (Wh)		583	393	468	468	393	583
Cyclelife span for charge (times)		1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
Time to charge (hour)	SOC = 100%	* 4.8 (** 5.7)	* 3.0 (** 3.5)	* 4 (** 4.5)	** 4 (*** 4.5)	** 3.0 (*** 3.5)	** 4.8 (*** 5.7)
	SOC = 80%	* 3.2 (** 4)	* 2.0 (** 2.5)	* 2.5 (** 3.2)	** 2.5 (*** 3.2)	** 2.0 (*** 2.5)	** 3.2 (*** 4)
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		✓	-	-	✓	✓	✓
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-EN600	BM-EN400	BM-EN400	BM-E8016	BM-E8016	BM-E8016
Compatible charger		EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004
Compatible adaptor for charge		-	SM-BTE60	SM-BTE60	-	-	-
Average weight (kg)		3.2	2.58	2.65	2.6	2.55	3.2
Note		* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)	* BT-E8010-A for Japan (13 Ah, 468 Wh) ** By EC-E8004 (*** In case of 100 V AC)	* BT-E8014-A for Japan (10.9 Ah, 393 Wh) ** By EC-E8004 (*** In case of 100 V AC)	* BT-E8016-A for Japan (16.2 Ah, 583 Wh) ** By EC-E8004 (*** In case of 100 V AC)

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-E8035-A	BT-E8035-L-A	BT-E8036-A	BT-E6000-A	BT-E6001-A	BT-EN805
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	Gray	Gray	-
	3	-	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		✓	✓	✓	✓	✓	-
Battery management system		First generation	First generation	First generation	First generation	First generation	Second generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Integrated	Integrated	Integrated	Rear carrier	Rear carrier	Integrated
Nominal voltage (V)		36	36	36	36	36	36
Capacity (Ah)		* 14	* 14	* 17.5	11.6	14	14
Rated capacity (Ah)		13	13	16.2	11.6	13	13
Energy Content (Wh)		* 504	* 504	* 630	418	504	504
Rated capacity (Wh)		468	468	583	418	468	468
Cyclelife span for charge (times)		1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
Time to charge (hour)	SOC = 100%	** 4 (*** 4.5)	** 4 (*** 4.5)	** 4.8 (*** 5.7)	* 3.0 (** 3.5)	* 4 (** 4.5)	* 4 (** 4.5)
	SOC = 80%	** 2.5 (*** 3.2)	** 2.5 (*** 3.2)	** 3.2 (*** 4)	* 2.0 (** 2.5)	* 2.5 (** 3.2)	* 2.5 (** 3.2)
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		**** -	**** -	**** -	-	-	*** -
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BM-E6000	BM-E6000	BM-EN800-A BM-EN800-B BM-EN801-A BM-EN801-B
Compatible charger		EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004
Compatible adaptor for charge		SM-BTE80	SM-BTE80	SM-BTE80	SM-BTE60	SM-BTE60	SM-BTE80
Average weight (kg)		2.9	3.15	3.7	2.58	2.65	2.9
Note		* BT-E8035-A for Japan (13 Ah, 468 Wh) ** By EC-E8004 (*** In case of 100 V AC) **** with SM-BTE80 or EW-CP100	* BT-E8035-L-A for Japan (13 Ah, 468 Wh) ** By EC-E8004 (*** In case of 100 V AC) **** with SM-BTE80 or EW-CP100	* BT-E8036-A for Japan (16.2 Ah, 583 Wh) ** By EC-E8004 (*** In case of 100 V AC) **** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC) *** with SM-BTE80 or EW-CP100

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-EN805-L	BT-EN806	BT-EN604	BT-EN605	BT-EN606	BT-EN404
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	Gray
	3	-	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		-	-	-	-	-	-
Battery management system		Second generation	Second generation	Second generation	Second generation	Second generation	Second generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Integrated	Integrated	Down tube/Seat tube	Down tube/Seat tube	Down tube/Seat tube	Rear carrier
Nominal voltage (V)		36	36	36	36	36	36
Capacity (Ah)		14	17.5	11.6	14	17.5	11.6
Rated capacity (Ah)		13	16.2	10.9	13	16.2	10.9
Energy Content (Wh)		504	630	418	504	630	418
Rated capacity (Wh)		468	583	393	468	583	393
Cyclelife span for charge (times)		1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
Time to charge (hour)	SOC = 100%	* 4 (** 4.5)	* 4.8 (** 5.7)	* 3.0 (** 3.5)	* 4 (** 4.5)	* 4.8 (** 5.7)	* 3.0 (** 3.5)
	SOC = 80%	* 2.5 (** 3.2)	* 3.2 (** 4)	* 2.0 (** 2.5)	* 2.5 (** 3.2)	* 3.2 (** 4)	* 2.0 (** 2.5)
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		*** -	*** -	✓	✓	✓	-
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-EN800-A BM-EN800-B BM-EN801-A BM-EN801-B	BM-EN800-A BM-EN800-B BM-EN801-A BM-EN801-B	BM-EN600	BM-EN600	BM-EN600	BM-EN400
Compatible charger		EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004
Compatible adaptor for charge		SM-BTE80	SM-BTE80	-	-	-	SM-BTE60
Average weight (kg)		3.15	3.7	2.55	2.6	3.2	2.58
Note		* By EC-E8004 (** In case of 100 V AC) *** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC) *** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-EN405	BT-E8010	BT-E8014	BT-E8016	BT-E8020	BT-E8035
Color	1	Black	Black	Black	Black	Black	Black
	2	Gray	-	-	-	-	-
	3	-	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		-	-	-	-	-	-
Battery management system		Second generation	First generation	First generation	First generation	First generation	First generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Rear carrier	Down tube/Seat tube	Down tube/Seat tube	Down tube/Seat tube	Integrated	Integrated
Nominal voltage (V)		36	36	36	36	36	36
Capacity (Ah)		14	* 14	* 11.6	* 17.5	14	* 14
Rated capacity (Ah)		13	13	10.9	16.2	13	13
Energy Content (Wh)		504	* 504	* 418	* 630	504	* 504
Rated capacity (Wh)		468	468	393	583	468	468
Cyclelife span for charge (times)		1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
Time to charge (hour)	SOC = 100%	* 4 (** 4.5)	** 4 (*** 4.5)	** 3.0 (*** 3.5)	** 4.8 (*** 5.7)	* 4 (** 4.5)	** 4 (*** 4.5)
	SOC = 80%	* 2.5 (** 3.2)	** 2.5 (*** 3.2)	** 2.0 (*** 2.5)	** 3.2 (*** 4)	* 2.5 (** 3.2)	** 2.5 (*** 3.2)
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		-	✓	✓	✓	✓	**** -
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-EN400	BM-E8016	BM-E8016	BM-E8016	BM-E8020	BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B
Compatible charger		EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004
Compatible adaptor for charge		SM-BTE60	-	-	-	-	SM-BTE80
Average weight (kg)		2.65	2.6	2.55	3.2	3.05	2.9
Note		* By EC-E8004 (** In case of 100 V AC)	* BT-E8010 for Japan (13 Ah, 468 Wh) ** By EC-E8004 (*** In case of 100 V AC)	* BT-E8014 for Japan (10.9 Ah, 393 Wh) ** By EC-E8004 (*** In case of 100 V AC)	* BT-E8016 for Japan (16.2 Ah, 583 Wh) ** By EC-E8004 (*** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)	* BT-E8035 for Japan (13 Ah, 468 Wh) ** By EC-E8004 (*** In case of 100 V AC) **** with SM-BTE80 or EW-CP100

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-E8035-L	BT-E8036	BT-E6000	BT-E6001
Color	1	Black	Black	Black	Black
	2	-	-	Gray	Gray
	3	-	-	-	-
EN 15194:2017+A1:2023 compliant		-	-	-	-
Battery management system		First generation	First generation	First generation	First generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Integrated	Integrated	Rear carrier	Rear carrier
Nominal voltage (V)		36	36	36	36
Capacity (Ah)		* 14	* 17.5	11.6	14
Rated capacity (Ah)		13	16.2	10.9	13
Energy Content (Wh)		* 504	* 630	418	504
Rated capacity (Wh)		468	583	393	468
Cyclelife span for charge (times)		1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
Time to charge (hour)	SOC = 100%	** 4 (*** 4.5)	** 4.8 (*** 5.7)	* 3.0 (** 3.5)	* 4 (** 4.5)
	SOC = 80%	** 2.5 (*** 3.2)	** 3.2 (*** 4)	* 2.0 (** 2.5)	* 2.5 (** 3.2)
Charge level display		✓	✓	✓	✓
Error signal		✓	✓	✓	✓
Charging port		**** -	**** -	-	-
System on/off switch		✓	✓	✓	✓
Compatible battery mount		BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BM-E6000	BM-E6000
Compatible charger		EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004
Compatible adaptor for charge		SM-BTE80	SM-BTE80	SM-BTE60	SM-BTE60
Average weight (kg)		3.15	3.7	2.58	2.65
Note		* BT-E8035-L for Japan (13 Ah, 468 Wh) ** By EC-E8004 (*** In case of 100 V AC) **** with SM-BTE80 or EW-CP100	* BT-E8036 for Japan (16.2 Ah, 583 Wh) ** By EC-E8004 (*** In case of 100 V AC) **** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)

Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BM-EN810-A	BM-EN800-A	BM-EN800-B	BM-EN801-A	BM-EN801-B	BM-EN600
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Battery management system		Second generation	Second generation	Second generation	Second generation	Second generation	Second generation
Position		Integrated	Integrated	Integrated	Integrated	Integrated	Down tube/Seat tube
Charging port		-	-	-	-	-	-
Key lock system		-	✓	✓	-	-	✓
System on/off switch		-	-	-	-	-	-
Power cable		✓	✓	✓	✓	✓	✓
Power cable length (mm)	75	-	-	-	-	-	-
	250	✓	✓	✓	✓	✓	✓
	300	-	-	-	-	-	✓
	400	✓	✓	✓	✓	✓	-
	600	-	-	-	-	-	✓
	900	-	-	-	-	-	-
	920	-	-	-	-	-	-
	1000	-	-	-	-	-	-
	1020	-	-	-	-	-	-
Compatible satellite charging port		EW-CP110 EW-CP111	EW-CP100	-	EW-CP100	-	-
Cable length to satellite charging port (mm)		200	200	-	200	-	-
Average weight (kg)		-	* 0.31 (Power cable: 250 mm), * 0.32 (Power cable: 400 mm)	* 0.29 (power cable: 250 mm), * 0.30 (power cable: 400 mm)	0.33 (power cable: 250 mm), 0.34 (power cable: 400 mm)	0.31 (power cable: 250 mm), 0.32 (power cable: 400 mm)	* 0.27 (power cable: 250 mm/300 mm), * 0.30 (power cable: 600 mm)
Note			* Without key unit	* Without key unit	-	-	* Without key unit

Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BM-EN400-A	BM-EN400-B	BM-E8016	BM-E8020	BM-E8030-A	BM-E8030-B
Color	1	Black	Black	Black	Black	Black	Black
	2	Gray	Gray	-	-	-	-
	3	-	-	-	-	-	-
Battery management system		Second generation	Second generation	First generation	First generation	First generation	First generation
Position		Rear carrier	Rear carrier	Down tube/Seat tube	Integrated	Integrated	Integrated
Charging port		✓	✓	-	-	-	-
Key lock system		✓	✓	✓	✓	✓	✓
System on/off switch		-	-	-	-	-	-
Power cable		✓	✓	✓	✓	✓	✓
Power cable length (mm)	75	-	-	-	-	-	-
	250	-	-	✓	✓	✓	✓
	300	-	-	✓	-	-	-
	400	-	-	-	✓	✓	✓
	600	-	-	✓	-	-	-
	900	-	-	-	-	-	-
	920	✓	✓	-	-	-	-
	1000	-	-	-	-	-	-
	1020	✓	✓	-	-	-	-
Compatible satellite charging port		-	-	-	-	EW-CP100	-
Cable length to satellite charging port (mm)		-	-	-	-	200	-
Average weight (kg)		* 0.38 (power cable: 920 mm), * 0.39 (power cable: 1020 mm)	* 0.38 (Power cable: 920 mm), * 0.39 (Power cable: 1020 mm)	-	-	* 0.31 (power cable: 250 mm), * 0.32 (power cable: 400 mm)	* 0.29 (power cable: 250 mm), * 0.30 (power cable: 400 mm)
Note		Compatibility with AXA key unit. * Without key unit	Compatibility with ABUS and Trelock key unit. * Without key unit	-	-	* Without key unit	* Without key unit

Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BM-E8031-A	BM-E8031-B	BM-E6000-A	BM-E6000-B
Color	1	Black	Black	Black	Black
	2	-	-	Gray	Gray
	3	-	-	-	-
Battery management system		First generation	First generation	First generation	First generation
Position		Integrated	Integrated	Rear carrier	Rear carrier
Charging port		-	-	✓	✓
Key lock system		-	-	✓	✓
System on/off switch		-	-	-	-
Power cable		✓	✓	✓	✓
Power cable length (mm)	75	-	-	-	-
	250	✓	✓	-	-
	300	-	-	-	-
	400	✓	✓	-	-
	600	-	-	-	-
	900	-	-	-	-
	920	-	-	✓	✓
	1000	-	-	-	-
	1020	-	-	✓	✓
Compatible satellite charging port		EW-CP100	-	-	-
Cable length to satellite charging port (mm)		200	-	-	-
Average weight (kg)		0.33 (power cable: 250 mm), 0.34 (power cable: 400 mm)	0.31 (power cable: 250 mm), 0.32 (power cable: 400 mm)	-	-
Note		-	-	Compatibility with AXA key unit.	Compatibility with ABUS and Trelock key unit.

Satellite System ON/OFF Switch

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		EW-SW310	EW-SW300	EW-SW100
Battery management system		Second generation	First generation	First generation
Position		Integrated	Integrated	Integrated
Master unit		-	-	-
Switch QTY (pcs)		2	1	1
SD50 port (pcs)		0	0	0
SD300 port (pcs)		2	0	0
SD50 connector (pcs)		0	0	1
SD300 connector (pcs)		0	1	0
LED	Battery level	✓	-	-
	Assist status	✓	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓
Cable length (mm)		-	1100	1100
Average weight (g)		10	23	25
Note				

Satellite Charging Port

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-CP110	EW-CP111	EW-CP100
Position	Integrated	Integrated	Integrated
Compatible battery mount	BM-EN810-A	BM-EN810-A	BM-EN800-A, BM-EN801-A, BM-E8030-A, BM-E8031-A
Compatible battery charger	* EC-EN814	EC-EN814	EC-E6002, EC-E8004
Firmware update by E-TUBE PROJECT	-	-	-
Cable length to battery mount (mm)	200, 550	200, 550	200, 550
Average weight (g)	-	-	-
Note	* Need SM-BTE81 to charge in frame		

Battery Charger

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EC-EN814	EC-E8004-1	EC-E8004-2	EC-E8004-3	EC-E8004-4	EC-E8004-6
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Plug type		-	Type C	Type A	Type A	Type O	Type BF
Typical example country/region		Worldwide	Europe	USA, Canada	Japan	Australia, New Zealand	UK
Compatible voltage		100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	USA/Canada: 120 V AC, 50 - 60 Hz / Others: 100 - 240 V AC, 50 - 60 Hz	100 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz
Output		42 V DC, 4A	42 V DC, 4 - 4.6 A	42 V DC, 4 A	42 V DC, 4 - 4.6 A	42 V DC, 4 - 4.6 A	42 V DC, 4 - 4.6 A
CE standard		✓	✓	-	-	-	✓
UL1012		✓	✓	✓	✓	✓	✓
Korea standard		✓	-	-	-	-	-
Japan standard		✓	-	-	✓	-	-
Charging time for 712 Wh battery	Full charge (hour)	5.2	-	-	-	-	-
	80% charge (hour)	3.4	-	-	-	-	-
Charging time for 630 Wh (583 Wh in Japan) battery	Full charge (hour)	-	4.8 (* 5.7)	5.7	5.7	4.8 (* 5.7)	4.8 (* 5.7)
	80% charge (hour)	-	3.2 (* 4)	4	4	3.2 (* 4)	3.2 (* 4)
Charging time for 504 Wh (464 Wh in Japan) battery	Full charge (hour)	-	4 (* 4.5)	4.5	4.5	4 (* 4.5)	4 (* 4.5)
	80% charge (hour)	-	2.5 (* 3.2)	3.2	3.2	2.5 (* 3.2)	2.5 (* 3.2)
Charging time for 418 Wh (393 Wh in Japan) battery	Full charge (hour)	-	3.0 (* 3.5)	3.5	3.5	3.0 (* 3.5)	3.0 (* 3.5)
	80% charge (hour)	-	2.0 (* 2.5)	2.5	2.5	2.0 (* 2.5)	2.0 (* 2.5)
Charging level display		-	-	-	-	-	-
Plug in charging type		✓	✓	✓	✓	✓	✓
Charging temperature		0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C
Storage temperature		-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Error signal		✓	✓	✓	✓	✓	✓
Adapter for battery connecter		* -	** -	* -	* -	** -	** -
Compatible AC power cable		SM-BCC1	-	-	-	-	-
Built in AC cable		-	✓	✓	✓	✓	✓
Built in AC cable length (m)		-	2	2	1	1	1
Average weight (g)		600					
Note		* Check latest line-up chart	* In case of 100 V AC ** Check latest line-up chart	* Check latest line-up chart	* Check latest line-up chart	* In case of 100 V AC ** Check latest line-up chart	* In case of 100 V AC ** Check latest line-up chart

Battery Charger

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		EC-E8004-7	EC-E8004-12	EC-E6002
Color	1	Black	Black	Black
	2	-	-	-
	3	-	-	-
Plug type		Type C	Type C	-
Typical example country/region		Korea	Brazil	Worldwide
Compatible voltage		100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz
Output		42 V DC, 4 - 4.6 A	42 V DC, 4 - 4.6 A	42 V DC, 1.8 A
CE standard		-	-	✓
UL1012		✓	✓	✓
Korea standard		✓	-	✓
Japan standard		-	-	✓
Charging time for 712 Wh battery	Full charge (hour)	-	-	-
	80% charge (hour)	-	-	-
Charging time for 630 Wh (583 Wh in Japan) battery	Full charge (hour)	4.8 (* 5.7)	4.8 (* 5.7)	10.2
	80% charge (hour)	3.2 (* 4)	3.2 (* 4)	7.5
Charging time for 504 Wh (464 Wh in Japan) battery	Full charge (hour)	4 (* 4.5)	4 (* 4.5)	7.5
	80% charge (hour)	2.5 (* 3.2)	2.5 (* 3.2)	4
Charging time for 418 Wh (393 Wh in Japan) battery	Full charge (hour)	3.0 (* 3.5)	3.0 (* 3.5)	6.5
	80% charge (hour)	2.0 (* 2.5)	2.0 (* 2.5)	3.5
Charging level display		-	-	-
Plug in charging type		✓	✓	✓
Charging temperature		0 - 40 °C	0 - 40 °C	0 - 40 °C
Storage temperature		-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Error signal		✓	✓	✓
Adapter for battery connecter		** -	** -	* -
Compatible AC power cable		-	-	SM-BCC1
Built in AC cable		✓	✓	-
Built in AC cable length (m)		1	1	-
Average weight (g)				523
Note		* In case of 100 V AC ** Check latest line-up chart	* In case of 100 V AC ** Check latest line-up chart	* Check latest line-up chart

Charging Adapter

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	SM-BTE81	SM-BTE80	SM-BTE60
Compatible battery	BT-EN817-B	BT-EN806 BT-EN805-L BT-EN805 BT-E8036 BT-E8035-L BT-E8035	BT-EN405 BT-EN404 BT-E6001 BT-E6000
Compatible Charger	EC-EN814	EC-E6000 EC-E6002 EC-E8004	EC-E6000 EC-E6002 EC-E8004
Compatible Charger port	EW-CP110	-	-
For range extender	-	-	-
Built in AC cable	-	-	-
Built in AC cable length (m)	-	-	-
Note			

Chain Case Fixing Screw

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

CAN Cable

Series	SHIMANO
Model no.	EW-CA110
Type	-
Compatible system	DU-EP801, DU-EP600
SD50 port (pcs)	0
SD300 port (pcs)	0
SD50 connector (pcs)	0
SD300 connector (pcs)	0
Cord diameter	ø3.15
Plug diameter	ø5.5
Note	

ABS Main Unit

Series		SHIMANO
Model no.		BS-AU301
Color	1	Black
	2	-
	3	-
Compatible brake type		Disc brake
Frame mount	Internal	✓
	External	✓
Adaptive bike category	E-MTB	✓**
	E-ROAD/GRAVEL	-
	E-TREKKING/CITY	✓
	E-Cargo	✓
	E-Small tire	✓
Compatible drive unit	SHIMANO	✓*
	Others	✓
Compatible battery	SHIMANO	✓*
	3rd Party	✓
Compatible wheel size (mm)		1300-3000
Control tire	Front	✓
	Rear	-
J-kit		✓
Brake hose length		3000 mm or less
Communication	E-TUBE	-
	CAN	✓
	USB	-
Port for wheel speed sensor		✓
Port for CAN connection		✓
Master unit		-
Firmware update	By E-TUBE PROJECT	-
	By Blubrake software	✓
SD300 port (pcs)		0
SD300 connector (pcs)		0
SD50 port (pcs)		0
SD50 connector (pcs)		0
Average weight (g)		-
Note		*Refer to Line-up chart **With condition

ABS Main Unit Mounting Parts Set

Series		SHIMANO	SHIMANO
Model no.		BS-AS300-O	BS-AS300-I
Color	1	Black	-
	2	-	-
	3	-	-
Compatible brake type		-	-
Frame mount	Internal	-	✓
	External	✓	-
Average weight (g)		-	-
Note			

ABS Power Split Cable

Series		SHIMANO
Model no.		BS-AP301
Color	1	Black
	2	-
	3	-
Adaptation voltage (V)		24 - 60
Compatible drive unit	SHIMANO	✓*
	Others	-
Compatible battery	SHIMANO	✓*
	3rd Party	✓
Wire harness length (mm)		950
Communication	E-TUBE	-
	UART	✓
	CAN	-
	USB	-
Average weight (g)		-
Note		*Refer to Line-up chart

ABS Wheel Speed Sensor Kit

Series			SHIMANO	SHIMANO
Model no.			BS-SS300-C	BS-SS300-S
Color	1		Black	Black
	2		-	-
	3		-	-
Compatible brake type			Disc brake	Disc brake
Mount type			F160PM/F180PM	F160PM/F180PM
Compatible rotor size	140 mm (SS)		-	-
	160 mm (S)		-	-
	180 mm (M)		✓	✓
	203 mm (L)		✓	✓
	220 mm (LL)		-	-
Compatible rotor mount	CENTER LOCK		✓	-
	6-bolt		-	✓
Fork and frame mount style	Post mount	140 mm direct	-	-
		160 mm direct	✓	✓
		180 mm direct	✓	✓
		200 mm direct	-	-
		203 mm direct	-	-
	Flat mount	Front	-	-
		Rear	-	-
	International A-standard		-	-
Wire harness length (mm)			140	140
Average weight (g)			-	-
Note				

PC Linkage Device for ABS

Series	SHIMANO
Model no.	SM-PCEBS
USB port (pcs)	Type-A(2.0): 1
SD50 port (pcs)	0
SD300 port (pcs)	0
SD50 connector (pcs)	0
SD300 connector (pcs)	0
PC link port (pcs)	0
LED	1
Note	

Extension Cable for ABS

Series		SHIMANO	SHIMANO
Model no.		BS-EW302	BS-EW305
Color	1	Black	Black
	2	-	-
	3	-	-
Wire harness length (mm)	350	-	✓
	400	✓	-
	500	✓	-
	600	✓	-
	1600	-	✓
Communication	E-TUBE	-	-
	UART	-	-
	CAN	-	✓
	USB	-	-
Average weight (g)		-	-
Note		Connector color: red	Connector color: green

SHIMANO