SHIMANO

2026-2027

SPEC. HANDBOOK

- MTB
- TREKKING
- GRAVEL
- ROAD
- LIFESTYLE Active
- LIFESTYLE Comfort
- GENERAL Di2 spec.
- GENERAL
- E-BIKE

REMARKS Mark ✓ : available / Mark - : not available

Specifications are subject to change without notice.
Visit SHIMANO PRODUCT WEBSITE (https://productinfo.shimano.com) for the latest information.

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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	**MF**	Multiple freewheel
BR	Brake caliper	**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**	Pedals
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	**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

MTB

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Shift Switch

Series			XTR	XTR	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.			SW-M9250-R	SW-M9250-IR	SW-M8250-R	SW-M8250-IR	SW-M8150-R	SW-M8150-IR
Switch type			Adjustable lever position	Adjustable lever position	Adjustable lever position	Adjustable lever position	Adjustable lever position	Adjustable lever position
Position			Clamp band	I-SPEC EV	Clamp band	I-SPEC EV	Clamp band	I-SPEC EV
Di2 connectivity wired	Di2 shifting		-	-	-	-	✓	✓
Di2 connectivity wireless	Di2 shifting		✓	✓	✓	✓	-	-
Button numbers (pcs)			3	3	3	3	3	3
Master unit			-	-	-	-	-	-
Firmware update by E-TUBE PROJECT			-	-	-	-	✓	✓
SD50 port (pcs)			0	0	0	0	0	0
SD300 port (pcs)			0	0	0	0	1	1
SD50 connector (pcs)			0	0	0	0	0	0
SD300 connector (pcs)			0	0	0	0	0	0
Switch1	Default function		RD outward	RD outward	RD outward	RD outward	RD outward	RD outward
	Multiple input	2 step	✓	✓	✓	✓	-	-
		Hold	✓	✓	✓	✓	✓	✓
	Adjustable lever position		Forward/backward, upward/downward	Forward/backward, upward/downward	Forward/backward, upward/downward	Forward/backward, upward/downward	✓	✓
Switch2	Default function		RD inward	RD inward	RD inward	RD inward	RD inward	RD inward
	Multiple input	2 step	✓	✓	✓	✓	-	-
		Hold	✓	✓	✓	✓	✓	✓
	Adjustable lever position		Forward/backward, upward/downward	Forward/backward, upward/downward	Forward/backward, upward/downward	Forward/backward, upward/downward	✓	✓
Switch3	Default function		Shifting/Adj. mode	Shifting/Adj. mode	Shifting/Adj. mode	Shifting/Adj. mode	Auto on/off	Auto on/off
	Multiple input	2 step	-	-	-	-	-	-
		Hold	✓	✓	✓	✓	✓	✓
Suspension switch			-	-	-	-	-	-
Battery			CR1632 x 2	CR1632 x 2	CR1632 x 2	CR1632 x 2	-	-
LED	Shimano system status		✓	✓	✓	✓	-	-
Average weight (g)			104	97	104	97	81	77
Note								

Shift Switch

Series			DEORE XT	DEORE XT	DEORE	DEORE
Model no.			SW-M8050-R	SW-M8050-L	SW-M6250-R	SW-M6250-IR
Switch type			FIREBOLT	FIREBOLT	-	-
Position			Clamp band, Right	Clamp band, Left	Clamp band	I-SPEC EV
Di2 connectivity wired	Di2 shifting		✓	✓	-	-
Di2 connectivity wireless	Di2 shifting		-	-	✓	✓
Button numbers (pcs)			2	2	3	3
Master unit			-	-	-	-
Firmware update by E-TUBE PROJECT			✓	✓	-	-
SD50 port (pcs)			1	1	0	0
SD300 port (pcs)			0	0	0	0
SD50 connector (pcs)			0	0	0	0
SD300 connector (pcs)			0	0	0	0
Switch1	Default function		RD outward	FD outward	RD outward	RD outward
	Multiple input	2 step	-	-	-	-
		Hold	✓	- *1	✓	✓
	Adjustable lever position		-	-	-	-
Switch2	Default function		RD inward	FD inward	RD inward	RD inward
	Multiple input	2 step	-	-	-	-
		Hold	✓	- *1	✓	✓
	Adjustable lever position		-	-	-	-
Switch3	Default function		-	-	Shifting/Adj. mode	Shifting/Adj. mode
	Multiple input	2 step	-	-	-	-
		Hold	-	-	✓	✓
Suspension switch			-	- *2	-	-
Battery			-	-	CR1632 x 2	CR1632 x 2
LED	Shimano system status		-	-	✓	✓
Average weight (g)			93	93	-	-
Note				*1 User can use it for rear derailleur multishift *2 User can use it for Suspension control		

Rear Derailleur

Series			XTR	XTR	XTR	XTR	XTR
Model no.			RD-M9250-GS	RD-M9250-SGS	RD-M9260-12	RD-M9260-11L	RD-M9050-SGS
Color	1		Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-
Rear speeds			12	12	12	11	11
Compatible chain			HG 12-speed	HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
RD construction	SHIMANO SHADOW RD		-	-	-	-	-
	SHIMANO SHADOW RD+		-	-	-	-	✓
	Double servo		-	-	-	-	-
	SHADOW ES		✓	✓	✓	✓	-
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			0T	0T	0T	0T	18T
Total capacity			36T	41T	41T	39T	41T *1
Low sprocket	Max.		45T	51T	51T	50T	40T (3x11-speed), 42T (2x11-speed), 46T (1x11-speed)
	Min.		45T	51T	51T	50T	40T
Top sprocket	Max.		9T	10T	10T	11T	11T
	Min.		9T	10T	10T	11T	11T
Fluoric coated link bushings			8	8	8	8	4
Pulley	Guide pulley bearing		Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing
	Tension pulley bearing		Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing
	Teeth		13T	13T	13T	13T	11T
	Screws material		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	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Anodized
B-axle 2	Hollow axle		-	-	-	-	✓
	Material		-	-	-	-	Aluminum
	Finish		-	-	-	-	Anodized
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted
P-axle	Material		Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish		Anodized	Anodized	Anodized	Anodized	-
Plate body	Material		CFRP	CFRP	CFRP	CFRP	CFRP
	Finish		Painted	Painted	Painted	Painted	Painted
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Anodized
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Anodized
Outer plate	Material		Carbon	Carbon	Carbon	Carbon	Carbon
	Finish		Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Anodized
Cable fixing screw	Material		-	-	-	-	-
	Finish		-	-	-	-	-
Stroke adjusting screw	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Anodized
Di2 connectivity wired	Di2 shifting		-	-	✓	✓	✓
Di2 connectivity wireless	Di2 shifting		✓	✓	✓	✓	-
	Bluetooth® LE	Cycling power	-	-	-	-	-
	ANT+	Bicycle power	-	-	-	-	-
	Bluetooth® LE custom (*)	Adjust mode information	✓	✓	✓	✓	-
		Di2 battery level	✓	✓	-	-	-
		Gear position	✓	✓	✓	✓	-
		SHIMANO E-BIKE SYSTEMS data items (***)	✓	✓	✓	✓	-
		Compatible with E-TUBE RIDE	✓	✓	✓	✓	-
		Compatible with E-TUBE PROJECT	✓	✓	✓	✓	-
	ANT private (**)	Adjust mode information	✓	✓	✓	✓	-
		Di2 battery level	✓	✓	-	-	-
		Gear position	✓	✓	✓	✓	-
		SHIMANO E-BIKE SYSTEMS data items (***)	✓	✓	✓	✓	-
SD50 port (pcs)			0	0	0	0	1
SD300 port (pcs)			0	0	1 *1	1 *1	0
SD50 connector (pcs)			0	0	0	0	0
SD300 connector (pcs)			0	0	0	0	0
LED for system status			✓	✓	✓	✓	-
Power supply	Built-in battery		✓	✓	-	-	-
	Wired		-	-	✓	✓	✓
Charging port			-	-	-	-	-
Charging cable			-	-	-	-	-
Average weight (g)			389	391	370	370	295
Note * Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. ** Compatible with ANT+ cycle computer but not freely open profile. *** Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.					*1 Compatible with EW-PS300	*1 Compatible with EW-PS300	*1 The Di2 system limits cross chain to prevent a chain from getting loose.

Rear Derailleur

Series			DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.			RD-M8250-GS	RD-M8250-SGS	RD-M8260-12	RD-M8260-11L	RD-M8150-12
Color	1		Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-
Rear speeds			12	12	12	11	12
Compatible chain			HG 12-speed	HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed	HG 12-speed
RD construction	SHIMANO SHADOW RD		-	-	-	-	-
	SHIMANO SHADOW RD+		-	-	-	-	✓
	Double servo		-	-	-	-	-
	SHADOW ES		✓	✓	✓	✓	-
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			0T	0T	0T	0T	0T
Total capacity			36T	41T	41T	39T	41T
Low sprocket	Max.		45T	51T	51T	50T	51T
	Min.		45T	51T	51T	50T	51T
Top sprocket	Max.		9T	10T	10T	11T	10T
	Min.		9T	10T	10T	11T	10T
Fluoric coated link bushings			8	8	8	8	3
Pulley	Guide pulley bearing		Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing
	Tension pulley bearing		Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing
	Teeth		13T	13T	13T	13T	13T
	Screws material		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	Aluminum
	Finish		Coloring	Coloring	Coloring	Coloring	Anodized
B-axle 2	Hollow axle		-	-	-	-	✓
	Material		-	-	-	-	Aluminum
	Finish		-	-	-	-	Anodized
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	-
Plate body	Material		GFRP	GFRP	GFRP	GFRP	GFRP
	Finish		-	-	-	-	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Anodized
Outer plate	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Painted
Cable fixing screw	Material		-	-	-	-	-
	Finish		-	-	-	-	-
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated
Di2 connectivity wired	Di2 shifting		-	-	✓	✓	✓
Di2 connectivity wireless	Di2 shifting		✓	✓	✓	✓	-
	Bluetooth® LE	Cycling power	-	-	-	-	-
	ANT+	Bicycle power	-	-	-	-	-
	Bluetooth® LE custom (*)	Adjust mode information	✓	✓	✓	✓	-
		Di2 battery level	✓	✓	-	-	-
		Gear position	✓	✓	✓	✓	-
		SHIMANO E-BIKE SYSTEMS data items (***)	✓	✓	✓	✓	-
		Compatible with E-TUBE RIDE	✓	✓	✓	✓	-
		Compatible with E-TUBE PROJECT	✓	✓	✓	✓	-
	ANT private (**)	Adjust mode information	✓	✓	✓	✓	-
		Di2 battery level	✓	✓	-	-	-
		Gear position	✓	✓	✓	✓	-
		SHIMANO E-BIKE SYSTEMS data items (***)	✓	✓	✓	✓	-
SD50 port (pcs)			0	0	0	0	0
SD300 port (pcs)			0	0	1 *1	1 *1	1
SD50 connector (pcs)			0	0	0	0	0
SD300 connector (pcs)			0	0	0	0	0
LED for system status			✓	✓	✓	✓	-
Power supply	Built-in battery		✓	✓	-	-	-
	Wired		-	-	✓	✓	✓
Charging port			-	-	-	-	-
Charging cable			-	-	-	-	-
Average weight (g)			446	449	427	427	375
Note * Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. ** Compatible with ANT+ cycle computer but not freely open profile. *** Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.					*1 Compatible with EW-PS300	*1 Compatible with EW-PS300	RD-M8150 is only for E-BIKE

Rear Derailleur

Series			DEORE XT	DEORE XT	DEORE	DEORE	DEORE
Model no.			RD-M8150-11	RD-M8050-GS	RD-M6250-SGS	RD-M6260-12	RD-M6260-11L
Color	1		Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-
Rear speeds			11	11	12	12	11
Compatible chain			LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed
RD construction	SHIMANO SHADOW RD		-	-	-	-	-
	SHIMANO SHADOW RD+		✓	✓	-	-	-
	Double servo		-	-	-	-	-
	SHADOW ES		-	-	✓	✓	✓
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			0T	10T	0T	0T	0T
Total capacity			39T	35T *1	41T	41T	39T
Low sprocket	Max.		50T	42T (2x11-speed), 46T (1x11-speed)	51T	51T	50T
	Min.		50T	40T	51T	51T	50T
Top sprocket	Max.		11T	11T	10T	10T	11T
	Min.		11T	11T	10T	10T	11T
Fluoric coated link bushings			3	4	8	8	8
Pulley	Guide pulley bearing		Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing
	Tension pulley bearing		Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing
	Teeth		13T	11T	13T	13T	13T
	Screws material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓	✓	✓	✓
Bracket	Material		Aluminum	Aluminum	-	-	-
	Finish		Anodized	Anodized	-	-	-
B-axle	Hollow axle		✓	✓	✓	✓	✓
	Material		Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish		Anodized	Anodized	Coloring	Coloring	Coloring
B-axle 2	Hollow axle		✓	✓	-	-	-
	Material		Aluminum	Aluminum	-	-	-
	Finish		Anodized	Anodized	-	-	-
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel	Steel
	Finish		-	-	Plated	Plated	Plated
Plate body	Material		GFRP	GFRP	GFRP	GFRP	GFRP
	Finish		-	-	-	-	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Steel	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Painted	Painted	Painted	Painted
Outer plate	Material		Aluminum	Aluminum	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Steel	Steel	Steel
	Finish		Painted	Anodized	Painted	Painted	Painted
Cable fixing screw	Material		-	-	-	-	-
	Finish		-	-	-	-	-
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated
Di2 connectivity wired	Di2 shifting		✓	✓	-	✓	✓
Di2 connectivity wireless	Di2 shifting		-	-	✓	✓	✓
	Bluetooth® LE	Cycling power	-	-	-	-	-
	ANT+	Bicycle power	-	-	-	-	-
	Bluetooth® LE custom (*)	Adjust mode information	-	-	✓	✓	✓
		Di2 battery level	-	-	✓	-	-
		Gear position	-	-	✓	✓	✓
		SHIMANO E-BIKE SYSTEMS data items (***)	-	-	✓	✓	✓
		Compatible with E-TUBE RIDE	-	-	✓	✓	✓
		Compatible with E-TUBE PROJECT	-	-	✓	✓	✓
	ANT private (**)	Adjust mode information	-	-	✓	✓	✓
		Di2 battery level	-	-	✓	-	-
		Gear position	-	-	✓	✓	✓
		SHIMANO E-BIKE SYSTEMS data items (***)	-	-	✓	✓	✓
SD50 port (pcs)			0	1	0	0	0
SD300 port (pcs)			1	0	0	1 *1	1 *1
SD50 connector (pcs)			0	0	0	0	0
SD300 connector (pcs)			0	0	0	0	0
LED for system status			-	-	✓	✓	✓
Power supply	Built-in battery		-	-	✓	-	-
	Wired		✓	✓	-	✓	✓
Charging port			-	-	-	-	-
Charging cable			-	-	-	-	-
Average weight (g)			375	319	-	-	-
Note * Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. ** Compatible with ANT+ cycle computer but not freely open profile. *** Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.			RD-M8150 is only for E-BIKE	*1 The Di2 system limits cross chain to prevent a chain from getting loose.	-	*1 Compatible with EW-PS300	*1 Compatible with EW-PS300

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 *2
	Direct mount		w/ SM-FD905-D *2
	ISCG05 mount		
Chain line (mm)			48.8 *1
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			*1 For FC 3 mm outboard spec, 51.8 mm *2 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	-	-	✓ *1	✓ *1
	31.8	-	-	✓ *1	✓ *1
	34.9	-	-	✓	✓
Direct mound bracket	Material	Aluminum	Aluminum	-	-
	Finish	Painted	Painted	-	-
Crankset top gear teeth		40-34T	40-34T	40-34T	40-34T
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.	*1 w/ Multi Clamp Band	*1 w/ Multi Clamp Band

System Information Display

Series		SHIMANO
Model no.		SC-MT800
Compatible system		E-TUBE
Master unit		-
Wireless system	ANT private	✓ *1
	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		Handlebar *2
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		*** Data of list of "Display function" is sent to other digital device by ANT private. *1 ANT private has compatibility with ANT+ cycle computer but not freely open profile. *2 Spec of clamp band diameter ø31.8 and ø35.0

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		✓	✓	-	-	✓ *1	-
	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)	*1 Pull: single, push: double	

Shifter

Series			SAINT	SAINT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.			SL-M820	SL-M820-B-I	SL-M8200-R	SL-M8200-IR	SL-M8210-R	SL-M8210-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			-	-	-	-	-	-
Rear speeds			10	10	12	12	12	12
Compatible rear derailleur type			MTB 10-speed	MTB 10-speed	12-speed	12-speed	12-speed	12-speed
Mount type	Clamp band		✓	-	✓	-	✓	-
	I-SPEC B		-	✓ *2	-	-	-	-
	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			✓ (CFRP)	✓ (CFRP)	✓	✓	✓	✓
Front 2/3 mode converter			-	-	-	-	-	-
Max. multiple shifts (main lever/rear)			4	4	3	3	1	1
Release function	MULTI RELEASE		✓ *1	✓ *1	✓	✓	-	-
	INSTANT RELEASE		✓	✓	✓	✓	✓	✓
	2-WAY RELEASE		✓	✓	✓	✓	✓	✓
	Adjustable lever		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		-	-	-	-	-	-
	With (removable)		-	-	-	-	-	-
	Without		✓	✓	✓	✓	✓	✓
Multi-bearing construction			4	4	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
	Finish		Black	-	SS Black	SS Black	SS Black	SS 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	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel
	Finish		-	-	-	-	-	-
Base cover	Material		GFRP	GFRP	Resin	Resin	Resin	Resin
	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	OT-SP41	OT-SP41
Average weight (g)			123 (/pc)	114 (/pc)	114 (/pc)	112 (/pc)	114 (/pc)	112 (/pc)
Note			*1 Pull: single, push: double	*1 Pull: single, push: double *2 I-spec B-type	w/Rubber grooved grip (main lever)	w/Rubber grooved grip (main lever)	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-M8230-R11	SL-M8230-IR11	SL-M8100-R	SL-M8100-IR	SL-M8100-L	SL-M8100-IL
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 MONO	RAPIDFIRE PLUS MONO
Front speeds			-	-	-	-	2	2
Rear speeds			11	11	12	12	-	-
Compatible rear derailleur type			LINKGLIDE 11-speed	LINKGLIDE 11-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)	-	✓ (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)			2	2	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	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		SS Black	SS Black	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		GFRP+Steel	GFRP+Steel	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-	-	-	-
Base cover	Material		Resin	Resin	GFRP	GFRP	GFRP	GFRP
	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)			114 (/pc)	113 (/pc)	117 (/pc)	120 (/pc)	78 (/pc)	78 (/pc)
Note			w/Rubber grooved grip (main lever)	w/Rubber grooved grip (main lever)	w/Rubber grooved grip (main lever)	w/Rubber grooved grip (main lever)	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-M8130-R11	SL-M8130-IR11	SL-M8000-R	SL-M8000-L	SL-M8000-IR	SL-M8000-IL
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	11	-	11	-
Compatible rear derailleur type			LINKGLIDE 11-speed	LINKGLIDE 11-speed	MTB 11-speed	-	MTB 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	4	-	4	-
Release function	MULTI RELEASE		-	-	✓ *1	-	✓ *1	-
	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	-	-
	Finish		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)			117 (/pc)	120 (/pc)	127 (/pc)	117 (/pc)	120 (/pc)	110 (/pc)
Note			-	-	*1 Pull: single, push: double		*1 Pull: single, push: double	

Shifter

Series			DEORE XT	SLX	SLX	SLX	SLX	SLX
Model no.			SL-M8000-B-IR	SL-M7100-R	SL-M7100-IR	SL-M7100-L	SL-M7100-IL	SL-M7000-11-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 MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS
Front speeds			-	-	-	2	2	-
Rear speeds			11	12	12	-	-	11
Compatible rear derailleur type			MTB 11-speed	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	3	3	-	-	3
Release function	MULTI RELEASE		✓ *1	-	-	-	-	-
	INSTANT RELEASE		✓	-	-	✓	✓	-
	2-WAY RELEASE		✓	✓	✓	✓	✓	✓
	Adjustable lever		-	-	-	✓	✓	-
OPTICAL GEAR DISPLAY	With		-	-	-	-	-	-
	With (removable)		-	-	-	-	-	✓
	Without		✓	✓	✓	✓	✓	✓
Multi-bearing construction			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
	Finish		-	-	-	-	-	-
Main lever body	Material		Aluminum	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		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	-	-	-	-	-
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)	117 (/pc)	117 (/pc)	77 (/pc)	77 (/pc)	135 (/pc)
Note			*1 Pull: single, push: double					

Shifter

Series			SLX	SLX	SLX	SLX	SLX	SLX
Model no.			SL-M7000-L	SL-M7000-11-IR	SL-M7000-IL	SL-M7000-10-R	SL-M7000-10-IR	SL-M7000-10-B-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	-	2/3	-	-	-
Rear speeds			-	11	-	10	10	10
Compatible rear derailleur type			-	MTB 11-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			-	✓	✓	-	✓	✓
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	-	-
	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)			130 (/pc)	120 (/pc)	115 (/pc)	135 (/pc)	120 (/pc)	127 (/pc)
Note								

Shifter

Series			DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.			SL-M6200-R	SL-M6200-IR	SL-M6210-R	SL-M6210-IR	SL-M6230-R11	SL-M6230-IR11
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			-	-	-	-	-	-
Rear speeds			12	12	12	12	11	11
Compatible rear derailleur type			MTB 12-speed	MTB 12-speed	MTB 12-speed	MTB 12-speed	MTB 11-speed	MTB 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)			3	3	1	1	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	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
Main lever body	Material		GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel
	Finish		-	-	-	-	-	-
Release lever body	Material		GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel	GFRP+Steel
	Finish		-	-	-	-	-	-
Base cover	Material		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			OPTISLICK(SUS)	OPTISLICK(SUS)	OPTISLICK(SUS)	OPTISLICK(SUS)	OPTISLICK(SUS)	OPTISLICK(SUS)

Shifter

Series			DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.			SL-M6100-R	SL-M6100-IR	SL-M6000-R	SL-M6000-L	SL-M6000-IR	SL-M6000-IL
Color	1		Series color	Series color	Series black	Series black	Series black	Series black
	2		-	-	-	-	-	-
	3		-	-	-	-	-	-
Shifter type			RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds			-	-	-	2/3	-	2/3
Rear speeds			12	12	10	-	10	-
Compatible rear derailleur type			MTB 12-speed	MTB 12-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)			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-R	SL-M5100-IR	SL-M5100-L	SL-M5100-IL	SL-M5130-R10	SL-M4100-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 MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds			-	-	2	2	-	-
Rear speeds			11	11	-	-	10	10
Compatible rear derailleur type			MTB 11-speed	MTB 11-speed	-	-	LINKGLIDE 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)	-	✓ (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	-	-	2	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	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+Resin
	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-M4100-IR	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			-	-	3
Rear speeds			10	9	-
Compatible rear derailleur type			MTB 10-speed	MTB 9-speed	-
Mount type	Clamp band		-	✓	✓
	I-SPEC B		-	-	-
	I-SPEC II		-	-	-
	I-SPEC EV		✓	-	-
Shift lever position adjust			✓ (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	-
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	Stainless steel
	Finish		-	-	-
Main lever body	Material		Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish		-	-	-
Release lever body	Material		Steel+Resin	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	9 mm Cable Pitch	9 mm Cable Pitch

Brake Lever (Hydraulic Disc Brake)

Series		XTR	XTR	DEORE XT	XTR	XTR	SAINT
Model no.		BL-M9200	BL-M9220	BL-M8200	BL-M9100	BL-M9120	BL-M820-B
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		2	2	2	2	2	2
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake hose (kit)		SM-BH90-SS	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SS	SM-BH90-SBM	SM-BH90-SBLS
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	60	60	60	-
Recommended brake caliper		BR-M9200, BR-MT805	BR-M9220	BR-M8200, BR-M8220, BR-MT805	BR-M9100, BR-M9110-R	BR-M9120	BR-M820
Oil		SHIMANO low viscosity oil	SHIMANO low viscosity oil	SHIMANO low viscosity oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓	✓	✓	✓	✓
Clamp screw	Material	Aluminum	Stainless steel	Stainless steel	Aluminum	Stainless steel	Stainless steel
	Finish	Anodized	Painted	Painted	Anodized	Painted	Painted
Brake lever	Material	Carbon	Aluminum	Aluminum	Carbon	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Painted	Anodized	Anodized
Master cylinder	Material	Magnesium	Aluminum	Aluminum	Magnesium	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (g)		65	112	114	66	97	104
Note							

Brake Lever (Hydraulic Disc Brake)

Series		DEORE XT	DEORE XT	SLX	DEORE	DEORE	SHIMANO
Model no.		BL-M8100	BL-M8000	BL-M7100	BL-M6200	BL-M6100	BL-MT620
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	Black color w/ SHIMANO logo
	2	-	-	-	-	Black (SHIMANO logo)	-
	3	-	-	-	-	-	-
Brake hose (kit)		SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SS	SM-BH90-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)		✓	✓	✓	✓	✓	✓
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.)		20	-	20	30	10	30
Recommended brake caliper		BR-M8100, BR-M8110-R, BR-M8120	BR-M8000	BR-M7100, BR-M7110-R, BR-M7120	BR-M6200, BR-M6220	BR-M6100, BR-M6120	BR-MT600, BR-MT620
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO low viscosity oil	SHIMANO Mineral	SHIMANO low viscosity oil
Funnel bleeding		✓	✓	✓	✓	✓	✓
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Painted	-	Painted	-	-	-
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)		105	104	107	-	-	-
Note							

Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BL-M4100	BL-M4100-ABS	BL-MT501	BL-MT401	BL-MT420	BL-MT420-3A
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	3
Color	1	Black (SHIMANO logo)	Black (SHIMANO logo)	Black	Black (metallic silver lever)	Black (metallic silver lever)	Black
	2	-	-	-	Black (black lever)	Black (black lever)	-
	3	-	-	-	-	-	-
Brake hose (kit)		SM-BH59-JK-SS (for BR-MT410), SM-BH90-SS (for BR-MT420)	SM-BH90-SS	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 (for BR-MT410), SM-BH90-SS (for BR-MT420)
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-MT410, BR-MT420	BR-MT420	BR-MT500, BR-MT520	BR-MT410, BR-MT420	BR-MT410, BR-MT420	BR-MT410, BR-MT420
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			Special J-kit for BOSCH ABS	-	-		

Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BL-MT420-3A-ABS	BL-MT402-3A	BL-MT402-ABS	BL-MT220	BL-MT220-ABS	BL-MT221
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		3	3	3	3	3	3
Color	1	Black	Black	Black	Black	Black (SHIMANO logo)	Black
	2	-	Silver *1	-	-	-	-
	3	-	-	-	-	-	-
Brake hose (kit)		SM-BH90-SS (for BR-MT420)	SM-BH59-JK-SS (for BR-MT410), SM-BH90-SS (for BR-MT420)	SM-BH90-SS (for BR-MT420)	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)		✓	✓	✓	✓	✓	✓
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-MT420	BR-MT410, BR-MT420	BR-MT420	BR-MT200, BR-UR300	BR-MT200	BR-MT200, BR-UR300
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓	✓	✓	✓	✓
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Brake lever	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Anodized
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (g)		-	-	-	-	-	-
Note		Special J-kit for BOSCH ABS	*1 The option color part is master cylinder	Special J-kit for BOSCH ABS		Special J-kit for BOSCH ABS	

Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		BL-MT201	BL-MT200-ABS	BL-MT200
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		3	3	3
Color	1	Black	Black	Black
	2	-	-	-
	3	-	-	-
Brake hose (kit)		SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black
	2	-	-	-
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	BR-MT200	BR-MT200, BR-UR300
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓	✓
Clamp screw	Material	Steel	Steel	Steel
	Finish	Plated	Plated	Plated
Brake lever	Material	Aluminum	Steel	Steel
	Finish	Anodized	Painted	Painted
Master cylinder	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Average weight (g)		-	-	-
Note		-	Special J-kit for BOSCH ABS	-

Rear Derailleur

Series			XTR	XTR	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.			RD-M9100-GS	RD-M9100-SGS	RD-M8200-GS	RD-M8200-SGS	RD-M8100-GS	RD-M8100-SGS
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	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
RD construction	SHIMANO SHADOW RD		-	-	-	-	-	-
	SHIMANO SHADOW RD+		✓	✓	-	-	✓	✓
	Double servo		-	-	-	-	-	-
	SHADOW ES		-	-	✓	✓	-	-
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	0T	0T	0T	0T
Total capacity			35T	41T	36T	41T	35T	41T
Low sprocket	Max.		45T	51T	45T	51T	45T	51T
	Min.		45T	51T	45T	51T	45T	51T
Top sprocket	Max.		10T	10T	9T	10T	10T	10T
	Min.		10T	10T	9T	10T	10T	10T
Fluoric coated link bushings			8	8	4	4	4	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	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Anodized	Anodized	Passivation	Passivation	-	-
B-axle 2	Hollow axle		-	-	-	-	-	-
	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	-	Plated	Plated	-	-
Plate body	Material		CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
	Finish		Painted	Painted	-	-	-	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Painted	Painted
Outer plate	Material		Carbon	Carbon	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Painted	Painted	Painted	Painted
Cable fixing screw	Material		Stainless steel	Stainless steel	Steel	Steel	Stainless steel	Stainless steel
	Finish		Black	Black	Plated	Plated	-	-
Stroke adjusting screw	Material		Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish		Anodized	Anodized	Plated	Plated	Plated	Plated
Average weight (g)			237	240	365	367	286	284
Note				w/Bumper on pully cage			w/Bumper on pully cage	w/Bumper on pully cage

Rear Derailleur

Series			DEORE XT	SLX	DEORE	DEORE	DEORE	DEORE XT
Model no.			RD-M8120-SGS	RD-M7100-SGS	RD-M7200-SGS	RD-M6200-SGS	RD-M6100-SGS	RD-M8230-SGS
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			12 (Front double)	12	12	12	12	11
Compatible chain			HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed
RD construction	SHIMANO SHADOW RD		-	-	-	-	-	-
	SHIMANO SHADOW RD+		✓	✓	-	✓	✓	-
	Double servo		-	-	-	-	-	-
	SHADOW ES		-	-	✓	-	-	✓
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	0T	0T	0T	0T	0T
Total capacity			45T	41T	41T	41T	41T	39T
Low sprocket	Max.		45T	51T	51T	51T	51T	50T
	Min.		45T	51T	51T	51T	51T	50T
Top sprocket	Max.		10T	10T	10T	10T	10T	11T
	Min.		10T	10T	10T	10T	10T	11T
Fluoric coated link bushings			7	7	4	7	7	4
Pulley	Guide pulley bearing		Sealed bearing	-	-	-	-	Sealed bearing
	Tension pulley 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		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	Passivation
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
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	Anodized	Painted	Painted	Anodized
Outer plate	Material		Aluminum	Steel	Steel	Steel	Steel	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Steel	Steel	Steel	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing screw	Material		Stainless steel	Stainless steel	Steel	Stainless steel	Stainless steel	Steel
	Finish		-	-	Plated	-	-	Plated
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)			287	313	439	-	-	367
Note				w/Bumper on pully cage				

Rear Derailleur

Series			DEORE XT	DEORE XT	DEORE	DEORE	DEORE	SAINT
Model no.			RD-M8130-SGS	RD-M8000-SGS	RD-M7230-SGS	RD-M5100-SGS	RD-M5120-SGS	RD-M820-SS
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			11	11	11	11	11/10	10
Compatible chain			LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG-X11 11-speed, HG-X 10-speed	HG-X 10-speed
RD construction	SHIMANO SHADOW RD		-	-	-	-	-	-
	SHIMANO SHADOW RD+		✓	✓	-	✓	✓	✓
	Double servo		-	-	-	-	-	-
	SHADOW ES		-	-	✓	-	-	-
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	18T	0T	0T	10T	Single
Total capacity			39T	47T	39T	40T	41T	25T
Low sprocket	Max.		50T	40T (3x11-speed), 42T (2x11-speed), 46T (1x11-speed)	50T	51T	46T (1x11/ 1x10-speed), 42T (2x11/2x10-speed)	28T, 36T
	Min.		50T	40T	50T	51T	42T	23T
Top sprocket	Max.		11T	11T	11T	11T	11T	12T
	Min.		11T	11T	11T	11T	11T	11T
Fluoric coated link bushings			7	4	4	7	4	5
Pulley	Guide pulley bearing		Sealed bearing	Sealed bearing	-	-	-	-
	Tension pulley bearing		Sealed bearing	Sealed bearing	-	-	-	Sealed bearing
	Teeth		13T	11T	13T	13T	11T	11T
	Screws material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓	✓	✓	✓	✓
Bracket	Material		-	Aluminum	-	-	Steel	Aluminum
	Finish		-	Painted	-	-	Painted	Painted
B-axle	Hollow axle		✓	✓	-	✓	✓	✓
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Aluminum
	Finish		-	-	-	-	-	Anodized
B-axle 2	Hollow axle		-	✓	-	-	✓	✓
	Material		-	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		-	-	Plated	-	-	-
Plate body	Material		GFRP	GFRP	GFRP	GFRP	Resin	Aluminum
	Finish		-	-	-	-	-	Painted
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Resin	Aluminum
	Finish		Painted	Painted	Anodized	Painted	-	Painted
Outer plate	Material		Aluminum	Aluminum	Steel	Steel	Steel	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Steel	Steel	Steel	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing screw	Material		Stainless steel	Stainless steel	Steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	Plated	-	-	Black
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)			308	275	439	-	-	280 (w/o mode converter)
Note			w/Bumper on pully cage					

Rear Derailleur

Series			SLX	SLX	SLX	DEORE	DEORE	DEORE
Model no.			RD-M7000-10-SGS	RD-M670-GS	RD-M670-SGS	RD-M6000-GS	RD-M6000-SGS	RD-M5130-GS
Color	1		Series color	Series color	Series color	Series black	Series black	Series color
	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	LINKGLIDE, HG 11-speed
RD construction	SHIMANO SHADOW RD		-	✓	✓	-	-	-
	SHIMANO SHADOW RD+		✓	-	-	✓	✓	✓
	Double servo		-	-	-	-	-	-
	SHADOW ES		-	-	-	-	-	-
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	18T	22T	10T	22T	0T
Total capacity			43T	35T	43T	41T	43T	32T
Low sprocket	Max.		36T	36T	36T	42T	36T	43T
	Min.		32T	32T	32T	42T	32T	43T
Top sprocket	Max.		11T	11T	11T	11T	11T	11T
	Min.		11T	11T	11T	11T	11T	11T
Fluoric coated link bushings			2	3	3	4	3	7
Pulley	Guide pulley bearing		-	-	-	-	-	Bush
	Tension pulley bearing		-	-	-	-	-	Bush
	Teeth		11T	11T	11T	11T	11T	13T
	Screws material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓	✓	✓	✓	✓
Bracket	Material		Steel	Steel	Steel	Steel	Steel	-
	Finish		Painted	Painted	Painted	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	Stainless steel	Stainless steel	Stainless steel	-
	Finish		-	-	-	-	-	-
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	-	-	Painted	-	-
Plate body	Material		Aluminum	Aluminum	Aluminum	GFRP	Aluminum	GFRP
	Finish		Painted	Painted	Painted	-	Painted	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Steel	Steel	Steel	Aluminum	Steel	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing screw	Material		Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Stainless steel
	Finish		-	-	-	Plated	Plated	-
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)			313	278	281	-	-	-
Note								-

Front Derailleur

Series			SLX	SLX	SLX	DEORE	DEORE	DEORE
Model no.			FD-M7025-11-D	FD-M7025-11-H	FD-M7025-11-L	FD-M6000-H	FD-M6000-M	FD-M6000-L
Color	1		Series color	Series color	Series color	Series black	Series black	Series black
	2		-	-	-	-	-	-
Front speeds			2	2	2	3	3	3
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
Action	TOP SWING		-	-	✓	-	-	-
	Down swing		✓	✓	-	-	-	-
	SIDE SWING		-	-	-	✓	✓	✓
Mount	Clamp band (mm)	28.6	-	- *1	- *1	✓ (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		✓	✓	-	-	-	-
	Top-pull exclusive		-	-	-	-	-	-
	Down-pull exclusive		-	-	✓	-	-	-
	Front-pull		-	-	-	✓	✓	✓
Chain line (mm)			48.8	48.8	48.8	50	50	50
Chainstay angle (deg.)			66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			34-38T	34-38T	34-38T	40-42T	40-42T	40-42T
Total capacity			10T	10T	10T	18T	18T	18T
Applicable top-mid tooth difference			-	-	-	10T	10T	10T
Multi access cable fixing screw			-	-	-	-	-	-
Angled stroke adjust screw			✓	✓	✓	✓	✓	✓
Angled clamp band design			-	✓	✓	✓	✓	✓
Link bushings			6	6	6	4	4	4
Front clamp band	Material		-	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		-	Painted	Painted	Painted	Painted	Painted
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	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	Aluminum	GFRP+Steel	GFRP+Steel	GFRP+Steel
	Finish		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		Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel
	Finish		-	-	-	Black	Black	Black
Average weight (g) (band type: L size, direct type w/ screw)			140	152	133	-	-	-
Note				*1 S-size adapter is available in OTC package only.	*1 S-size adapter is available in OTC package only.			

Front Derailleur

Series			DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.			FD-M6000-D	FD-M6000-E	FD-M6025-H	FD-M6025-L	FD-M6025-D	FD-M5100-D
Color	1		Series black	Series black	Series black	Series black	Series black	Series color
	2		-	-	-	-	-	-
Front speeds			3	3	2	2	2	2
Rear speeds			10	10	10	10	10	11
Compatible chain			HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	LINKGLIDE, HG 11-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		✓	-	-	-	✓	✓
Cable route type	Dual-pull		-	-	✓	-	✓	-
	Top-pull exclusive		-	-	-	-	-	-
	Down-pull exclusive		-	-	-	✓	-	-
	Front-pull		✓	✓	-	-	-	✓
Chain line (mm)			50	50	48.8	48.8	48.8/51.8 *1	48.8/51.8
Chainstay angle (deg.)			66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			40-42T	40-42T	34-38T	34-38T	34-38T	36T
Total capacity			18T	18T	10T	10T	10T	10T
Applicable top-mid tooth difference			10T	10T	-	-	-	-
Multi access cable fixing screw			-	-	-	-	-	-
Angled stroke adjust screw			✓	✓	✓	✓	✓	✓
Angled clamp band design			-	-	✓	✓	-	-
Link bushings			4	4	8	2	8	4
Front clamp band	Material		-	-	Aluminum	Aluminum	-	-
	Finish		-	-	Painted	Painted	-	-
Rear clamp band, base bracket	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material		-	-	Stainless steel	Stainless steel	Stainless steel	-
	Finish		-	-	-	-	-	-
Bottom bracket plate	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		GFRP+Steel	GFRP+Steel	Aluminum	Steel	Aluminum	GFRP+Steel
	Finish		-	-	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	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Black	Black	-	-	-	Black
Average weight (g) (band type: L size, direct type w/ screw)			-	-	-	-	-	-
Note							*1 Compatible with the special crankset which chain line is 3 mm outboard.	

Front Derailleur

Series			DEORE	DEORE	DEORE	DEORE	DEORE	DEORE
Model no.			FD-M5100-E	FD-M5100-M	FD-M4100-D	FD-M4100-E	FD-M4100-M	FD-M618-E
Color	1		Series color	Series color	Series color	Series color	Series color	Black
	2		-	-	-	-	-	-
Front speeds			2	2	2	2	2	2
Rear speeds			11	11	10	10	10	10
Compatible chain			LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-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	-	- *1	-	-	- *1	-
		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)			48.8/51.8	48.8/51.8	48.8/51.8	48.8/51.8	48.8/51.8	48.8 *1
Chainstay angle (deg.)			66-69	66-69	66-69	66-69	66-69	66-69
Top gear teeth			36T	36T	36T	36T	36T	36-38T
Total capacity			10T	10T	10T	10T	10T	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	-
	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	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	Plated	Plated	Plated	Plated	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		Black	Black	Black	Black	Black	-
Average weight (g) (band type: L size, direct type w/ screw)			-	-	-	-	-	-
Note				*1 S-size adapter is available in OTC package only.			*1 S-size adapter is available in OTC package only.	*1 Compatible with the special crankset which chain line is 3 mm outboard.

Brake (Hydraulic Disc Brake)

Series		XTR	XTR	DEORE XT	DEORE XT	DEORE	DEORE
Model no.		BR-M9200	BR-M9220	BR-M8200	BR-M8220	BR-M6200	BR-M6220
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-SBM	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SS	SM-BH90-SS
Hose joint		Straight	Banjo	Banjo	Banjo	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)	P03A-RF Resin (w/ fin)	G05A-RX Resin (w/o fin)	P03A-RF Resin (w/ fin)	G05S-RX Resin (w/o fin)	D03S-RX Resin (w/o fin)
	Standard 2	K04Ti-MX Metal (w/ o fin)	P04C-MF Metal (w/ fin)	G04S-MX Metal (w/o fin)	P04C-MF Metal (w/ fin)	G04S-MX Metal (w/o fin)	D02S-MX Metal (w/o fin)
	Option 1	-	D03S-RX Resin (w/o fin)	J05A-RF Resin (w/ fin)	D03S-RX Resin (w/o fin)	J05A-RF Resin (w/ fin)	-
	Option 2	-	D02S-MX Metal (w/o fin)	J04C-MF Metal (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	-	-	-	-	-	-
Recommended brake lever		BL-M9200	BL-M9220	BL-M8200	BL-M8200	BL-M6200	BL-M6200
Recommended disc brake rotor	w/ metal and resin pad	RT-CL900, RT-MT905	RT-CL900, RT-MT905, RT-CL750, RT-6B750	RT-CL800, SM-RT86	RT-CL800, SM-RT86, RT-CL750, RT-6B750	SM-RT64, SM-RT66	SM-RT64, SM-RT66, RT-CL750, RT-6B750
	w/ resin pad	-	-	-	-	-	-
Compatible rotor size	140 mm	✓	-	✓	-	-	-
	160 mm	✓	✓	✓	✓	✓	✓
	180 mm	✓	✓	✓	✓	✓	✓
	200 mm	-	✓	✓	✓	✓	✓
	203 mm	-	✓	✓	✓	✓	✓
	220 mm	-	✓	✓	✓	✓	✓
Oil		SHIMANO low viscosity oil	SHIMANO low viscosity oil	SHIMANO low viscosity oil	SHIMANO low viscosity oil	SHIMANO low viscosity oil	SHIMANO low viscosity oil
ONE WAY BLEEDING		✓	-	✓	-	✓	✓
Mount type		Post mount	Post mount	Post mount	Post mount	Post mount	Post mount
Piston		2	4	2	4	2	4
Piston material		Resin	Resin	Resin	Resin	Resin	Resin
Caliper	MONO-BODY	✓	✓	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Titanium	Steel	Steel	Steel	Steel	Steel
	Tool size	4 mm *1	5 mm	5 mm	5 mm	5 mm	5 mm
	Anti loosen method	Wiring	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Split pin (stainless steel)	Split pin (stainless steel)
Average weight (g)		91	134	113	148	-	-
Average weight (g) (kit for front 800 mm, w/ pad (Standard 1), w/o adapter, w/ 2 screws)		192 (BL-M9200 Front) 212 (BL-M9200 Rear) 240 (BL-M9220 Front) 260 (BL-M9220 Rear)	294 (Front) 314 (Rear)	276 (Front) 296 (Rear)	310 (Front) 330 (Rear)	-	-
Note		*1 Titanium					

Brake (Hydraulic Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	XTR	XTR	XTR
Model no.		BR-MT805	BR-MT600	BR-MT620	BR-M9100	BR-M9110	BR-M9120
Color	1	Black (SHIMANO logo)	Black (SHIMANO logo)	Black (SHIMANO logo)	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-SS	SM-BH90-SS	SM-BH90-SS	SM-BH90-SBM
Hose joint		Straight	Straight	Straight	Straight	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	K05S-RX Resin (w/o fin)	G05S-RX Resin (w/o fin)	D03S-RX Resin (w/o fin)	K05Ti-RX Resin (w/o fin)	K05Ti-RX Resin (w/o fin)	N03A-RF Resin (w/ fin)
	Standard 2	K04S-MX Metal (w/o fin)	G04S-MX Metal (w/o fin)	D02S-MX Metal (w/o fin)	K04Ti-MX Metal (w/ o fin)	K04Ti-MX Metal (w/ o fin)	N04C-MF Metal (w/ fin)
	Option 1	L05A-RF Resin (w/ fin)	J05A-RF Resin (w/ fin)	D05S-RX Resin (w/o fin)	-	-	-
	Option 2	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-M9200, BL-M9220, BL-M8200	BL-MT620	BL-MT620	BL-M9100	BL-M9100	BL-M9120
Recommended disc brake rotor	w/ metal and resin pad	RT-CL900, RT-MT905, RT-CL800, SM-RT86	SM-RT64, SM-RT66	SM-RT64, SM-RT66, RT-CL750, RT-6B750	RT-CL900	RT-CL900	RT-CL900
	w/ resin pad	-	-	-	-	-	-
Compatible rotor size	140 mm	✓	-	-	✓	✓	-
	160 mm	✓	✓	✓	✓	✓	✓
	180 mm	✓	✓	✓	✓	-	✓
	200 mm	-	✓	✓	-	-	✓
	203 mm	-	✓	✓	-	-	✓
	220 mm	-	✓	✓	-	-	✓
Oil		SHIMANO low viscosity oil	SHIMANO low viscosity oil	SHIMANO low viscosity oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓	-
Mount type		Flat mount	Post mount	Post mount	Post mount	Flat mount	Post mount
Piston		2	2	4	2	2	4
Piston material		Resin	Resin	Resin	Ceramic	Ceramic	Ceramic
Caliper	MONO-BODY	-	-	-	✓	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Anodized	Anodized	Painted
Caliper fixing screw	Material	Steel	Steel	Steel	Titanium	Steel	Titanium
	Tool size	4 mm	5 mm	5 mm	4 mm *1	4 mm	4 mm *1
	Anti loosen method	Screw fix pin+Snap ring	Snap ring	Snap ring	Wiring	Screw fix pin+Snap ring	Wiring
Pad mount		Pad axle	Split pin (stainless steel)	Split pin (stainless steel)	Pad axle	Pad axle	Pad axle
Average weight (g)		125	-	-	92	108	131
Average weight (g) (kit for front 800 mm, w/ pad (Standard 1), w/o adapter, w/ 2 screws)		Kit for rear 1700 mm 252 (BL-M9200) 300 (BL-M9220) 302 (BL-M8200)	-	-	193	203	262
Note		For rear only.			*1 Titanium	For rear only. 140 mm disc brake rotor direct mount	*1 Titanium

Brake (Hydraulic Disc Brake)

Series		SAINT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		BR-M820	BR-M8100	BR-M8110	BR-M8120	BR-M8000	BR-M8020
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-SBLS	SM-BH90-SBM	SM-BH90-SS	SM-BH90-SBM	SM-BH90-SB	SM-BH90-SBLS
Hose joint		Banjo	Banjo	Straight	Banjo	Banjo	Banjo
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	H03A-RF Resin (w/ fin)	G05A-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)	N03A-RF Resin (w/ fin)	G05A-RX Resin (w/o fin)	H03A-RF Resin (w/ fin)
	Standard 2	H03C-MF Metal (w/ fin)	G04S-MX Metal (w/o fin)	K04S-MX Metal (w/o fin)	N04C-MF Metal (w/ fin)	J05A-RF Resin (w/ fin)	-
	Option 1	-	J05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)	D03S-RX Resin (w/o fin)	G04S-MX Metal (w/o fin)	D03S-RX Resin (w/o fin)
	Option 2	-	J04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)	D02S-MX Metal (w/o fin)	J04C-MF Metal (w/ fin)	H03C-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-M820	BL-M8100, BL-T8100	BL-M8100	BL-M8100, BL-T8100	BL-M8000	BL-M8000
Recommended disc brake rotor	w/ metal and resin pad	SM-RT99, SM-RT86	RT-CL800	RT-CL800	RT-CL800	RT-CL800, SM-RT86	RT-CL800, SM-RT99, RT-EM810, RT-EM910
	w/ resin pad	-	-	-	-	-	-
Compatible rotor size	140 mm	✓	✓	✓	✓	✓	✓
	160 mm	✓	✓	✓	✓	✓	✓
	180 mm	✓	✓	✓	✓	✓	✓
	200 mm	✓	✓	-	✓	✓	✓
	203 mm	✓	✓	-	✓	✓	✓
	220 mm	✓	✓	-	✓	✓	✓
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	✓	-	✓	✓
Mount type		Post mount	Post mount	Flat mount	Post mount	Post mount	Post mount
Piston		4	2	2	4	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	4 mm	5 mm	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring	Screw fix pin+Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		153	121	126	141	118	153
Average weight (g) (kit for front 800 mm, w/ pad (Standard 1), w/o adapter, w/ 2 screws)		303	269	260	289	266	303
Note				For rear only.			

Brake (Hydraulic Disc Brake)

Series		SLX	SLX	SLX	DEORE	DEORE	SHIMANO
Model no.		BR-M7100	BR-M7110	BR-M7120	BR-M6100	BR-M6120	BR-MT520
Color	1	Series color	Series color	Series color	Series color	Series color	Black
	2	-	-	-	Black (SHIMANO logo)	Black (SHIMANO logo)	-
	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-BH90-SS	SM-BH90-SS	SM-BH90-SS
Hose joint		Banjo	Straight	Banjo	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)	K05S-RX Resin (w/o fin)	D03S-RX Resin (w/o fin)	G05S-RX Resin (w/o fin)	D03S-RX Resin (w/o fin)	D03S-RX Resin (w/o fin)
	Standard 2	G04S-MX Metal (w/o fin)	K04S-MX Metal (w/o fin)	N03A-RF Resin (w/ fin)	J05A-RF Resin (w/ fin)	-	D02S-MX Metal (w/o fin)
	Option 1	J05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)	D02S-MX Metal (w/o fin)	G04S-MX Metal (w/o fin)	D02S-MX Metal (w/o fin)	-
	Option 2	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-M7100	BL-M7100	BL-M7100	BL-M6100	BL-M6100	BL-MT501
Recommended disc brake rotor	w/ metal and resin pad	RT-CL700	RT-CL700	RT-CL700	SM-RT64, SM-RT66	SM-RT64, SM-RT66	RT-CL700
	w/ resin pad	-	-	-	SM-RT54, SM-RT56	SM-RT54, SM-RT56	-
Compatible rotor size	140 mm	✓	✓	✓	✓	✓	✓
	160 mm	✓	✓	✓	✓	✓	✓
	180 mm	✓	✓	✓	✓	✓	✓
	200 mm	✓	-	✓	✓	✓	✓
	203 mm	✓	-	✓	✓	✓	✓
	220 mm	✓	-	✓	✓	✓	✓
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	-	✓	✓	✓
Mount type		Post mount	Flat mount	Post mount	Post mount	Post mount	Post mount
Piston		2	2	4	2	4	4
Piston material		Ceramic	Ceramic	Ceramic	Resin	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	4 mm	5 mm	5 mm	5 mm	5 mm
	Anti loosen method	Snap ring	Screw fix pin+Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Split pin (stainless steel)	Split pin (stainless steel)	Split pin
Average weight (g)		121	125	142	-	-	-
Average weight (g) (kit for front 800 mm, w/ pad (Standard 1), w/o adapter, w/ 2 screws)		271	262	293	-	-	-
Note			For rear only.				

Brake (Hydraulic Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-MT500	BR-MT420	BR-MT410	BR-MT200
Color	1	Black	Black	Black (SHIMANO logo)	Black
	2	-	-	-	-
	3	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH59-JK-SS	SM-BH90-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black
	2	-	-	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		-	-	-	-
Pad	Standard 1	B05S-RX Resin (w/o fin)	D03S-RX Resin (w/o fin)	B05S-RX Resin (w/o fin)	B05S-RX Resin (w/o fin)
	Standard 2	-	D02S-MX Metal (w/o fin)	-	-
	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-MT401, BL-MT402-3A	BL-M4100, BL-MT401, BL-MT402-3A	BL-MT201, BL-MT200
Recommended disc brake rotor	w/ metal and resin pad	-	SM-RT64	-	-
	w/ resin pad	SM-RT54, SM-RT56	SM-RT30, SM-RT54, SM-RT56	SM-RT30, SM-RT54, SM-RT56	SM-RT10, SM-RT26
Compatible rotor size	140 mm	-	✓	✓	✓
	160 mm	✓	✓	✓	✓
	180 mm	✓	✓	✓	✓
	200 mm	-	✓	✓	-
	203 mm	-	✓	✓	-
	220 mm	-	✓	-	-
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	✓	✓
Mount type		Post mount	Post mount	Post mount	Post mount
Piston		2	4	2	2
Piston material		Resin	Resin	Resin	Resin
Caliper	MONO-BODY	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Steel	Steel	Steel
	Tool size	5 mm	5 mm	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		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					

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	BP-B05S-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, RT-CL300, SM-RT26
Mount type		Post mount
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			XTR	XTR	XTR	XTR	XTR	XTR
Model no.			FC-M9200	FC-M9220	FC-M9100-2	FC-M9120-B2	FC-M9100-1	FC-M9120-1
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			12	12	12 (Front double)	12 (Front double)	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)			55	55	48.8	51.8	52	52
O.L.D.	Thru (mm)	157	-	-	-	-	-	-
		150	-	-	-	-	-	-
		148	✓	✓	-	✓	✓	✓
		142	-	-	✓	-	✓	✓
	QR/Nut (mm)	141	✓	✓	-	✓	✓	✓
		135	-	-	✓	-	✓	✓
P.C.D. (mm)			Direct	Direct	Direct	Direct	Direct	Direct
Spider/gear arms			-	-	4	4	4	4
Chainring combination			30T, 32T, 34T, 36T, 38T	28T, 30T, 32T, 34T	38-28T	38-28T	30T, 32T, 34T, 36T, 38T	30T, 32T, 34T, 36T, 38T
Q-factor (mm)			170	176	162	168	162	168
Crank arm length (mm)	150		-	-	-	-	-	-
	157.5		-	-	-	-	-	-
	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		Anodized	Anodized	Plated	Plated	Plated	Plated
Middle ring	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Inner ring	Material		-	-	Aluminum	Aluminum	-	-
	Finish		-	-	Plated	Plated	-	-
Outer/middle ring fixing bolt	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Inner ring fixing screw	Material		-	-	Aluminum	Aluminum	-	-
	Finish		-	-	Anodized	Anodized	-	-
Stainless chain guard fixing screw			-	-	-	-	-	-
Crank fixing screw included			✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)			571 (30T) 572 (32T) 577 (34T) 586 (36T) 592 (38T)	582 (28T) 587 (30T) 588 (32T) 593 (34T)	606	627	527 (30T) 530 (32T) 543 (34T) 542 (36T) 550 (38T)	546 (30T) 549 (32T) 563 (34T) 562 (36T) 570 (38T)
Note					-	-	-	-

Crankset

Series			XTR	XTR	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.			FC-M9125-1	FC-M9130-1	FC-M8200	FC-M8100-2	FC-M8120-B2	FC-M8100-1
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			12	12	12	12 (Front double)	12 (Front double)	12
Compatible chain			HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
Chain line (mm)			55	56.5	55	48.8	51.8	52
O.L.D.	Thru (mm)	157	-	✓	-	-	-	-
		150	-	-	-	-	-	-
		148	✓	-	✓	-	✓	✓
		142	-	-	-	✓	-	✓
	QR/Nut (mm)	141	-	-	✓	-	✓	✓
		135	-	-	-	✓	-	✓
P.C.D. (mm)			Direct	Direct	Direct	Direct	Direct	Direct
Spider/gear arms			4	4	-	4	4	4
Chainring combination			32T, 34T	30T, 32T, 34T	28T, 30T, 32T, 34T, 36T	36-26T	36-26T	28T, 30T, 32T, 34T, 36T
Q-factor (mm)			174	171	176	172	178	172
Crank arm length (mm)	150		-	-	-	-	-	-
	157.5		-	-	-	-	-	-
	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	BB-MT801	BB-MT801	BB-MT801	BB-MT801
	Threaded (E-type)		-	-	-	-	-	-
	Threaded (chain case)		-	-	-	-	-	-
	Press-Fit		SM-BB94-41A	SM-BB94-41A	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	Aluminum	Aluminum	Aluminum	Steel (teeth), CFRP (body), Aluminum (arm)
	Finish		Plated	Plated	Anodized	Anodized	Anodized	Painted (teeth), Anodized (arm)
Middle ring	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Inner ring	Material		-	-	-	Steel	Steel	-
	Finish		-	-	-	Painted	Painted	-
Outer/middle ring fixing bolt	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Inner ring fixing screw	Material		-	-	-	Aluminum	Aluminum	-
	Finish		-	-	-	Anodized	Anodized	-
Stainless chain guard fixing screw			-	-	-	-	-	-
Crank fixing screw included			✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)			578 (32T) 592 (34T)	559 (30T) 562 (32T) 576 (34T)	580 (28T) 582 (30T) 591 (32T) 597 (34T) 607 (36T)	657	668	612 (28T) 626 (30T) 624 (32T) 637 (34T) 655 (36T)
Note								

Crankset

Series			DEORE XT	DEORE XT	SLX	SLX	SLX	SLX
Model no.			FC-M8120-1	FC-M8130-1	FC-M7100-2	FC-M7120-B2	FC-M7100-1	FC-M7120-1
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			12	12	12 (Front double)	12 (Front double)	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)			55	56.5	48.8	51.8	52	55
O.L.D.	Thru (mm)	157	-	✓	-	-	-	-
		150	-	-	-	-	-	-
		148	✓	-	-	✓	✓	✓
		142	-	-	✓	-	✓	-
	QR/Nut (mm)	141	✓	-	-	✓	✓	✓
		135	-	-	✓	-	✓	-
P.C.D. (mm)			Direct	Direct	Direct	Direct	Direct	Direct
Spider/gear arms			4	4	4	4	4	4
Chainring combination			28T, 30T, 32T, 34T, 36T	28T, 30T, 32T, 34T	36-26T	36-26T	30T, 32T, 34T	30T, 32T, 34T
Q-factor (mm)			178	181	172	178	172	178
Crank arm length (mm)	150		-	-	-	-	-	-
	157.5		-	-	-	-	-	-
	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		Steel (teeth), CFRP (body), Aluminum (arm)	Steel (teeth), CFRP (body), Aluminum (arm)	Aluminum	Aluminum	Steel (teeth), GFRP (body), Aluminum(arm)	Steel (teeth), GFRP (body), Aluminum(arm)
	Finish		Painted (teeth), Anodized (arm)	Painted (teeth), Anodized (arm)	Painted	Painted	Plated (teeth), Painted (body)	Plated (teeth), Painted (body)
Middle ring	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Inner ring	Material		-	-	Steel	Steel	-	-
	Finish		-	-	Painted	Painted	-	-
Outer/middle ring fixing bolt	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Inner ring fixing screw	Material		-	-	Aluminum	Stainless steel	-	-
	Finish		-	-	Anodized	-	-	-
Stainless chain guard fixing screw			-	-	-	-	-	-
Crank fixing screw included			✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)			620 (28T) 634 (30T) 632 (32T) 646 (34T) 664 (36T)	628 (28T) 643 (30T) 641 (32T) 654 (34T) 672 (36T)	663	674	623 (30T) 620 (32T) 635 (34T)	631 (30T) 628 (32T) 643 (34T)
Note								

Crankset

Series			DEORE	DEORE	DEORE	DEORE	SHIMANO	SHIMANO
Model no.			FC-M6200	FC-M6100-1	FC-M6120-1	FC-M6130-1	FC-MT620	FC-MT520
Color	1		Series color	Series color	Series color	Series color	Black color	Black color
	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)			55	52	55	56.5	55	55
O.L.D.	Thru (mm)	157	-	-	-	✓	-	-
		150	-	-	-	-	-	-
		148	✓	✓	✓	-	✓	✓
		142	-	✓	-	-	-	-
	QR/Nut (mm)	141	✓	✓	✓	-	✓	✓
		135	-	✓	-	-	-	-
P.C.D. (mm)			Direct	Direct	Direct	Direct	Direct	96
Spider/gear arms			-	4	4	4	-	4
Chainring combination			30T, 32T	30T, 32T	30T, 32T	30T, 32T	30T, 32T	30T, 32T, 34T
Q-factor (mm)			176	172	178	181	176	176
Crank arm length (mm)	150		-	-	-	-	-	-
	157.5		-	-	-	-	-	-
	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	Anodized	Anodized	Anodized	Anodized	Painted
Crank axle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Spider arm cover	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer ring	Material		Steel	Steel (teeth), GFRP (body), Aluminum(arm)	Steel (teeth), GFRP (body), Aluminum(arm)	Steel (teeth), GFRP (body), Aluminum(arm)	Steel	Steel
	Finish		Painted	Painted (teeth), Painted (arm)	Painted (teeth), Painted (arm)	Painted (teeth), Painted (arm)	Painted	Painted
Middle ring	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Inner ring	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer/middle ring fixing bolt	Material		-	-	-	-	-	Stainless steel
	Finish		-	-	-	-	-	Passivating
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	XTR	XTR	DEORE XT
Model no.			FC-MT510-1	FC-MT511-1	FC-MT512-1	FC-M9020-B1	FC-M9020-B2	FC-M8000-B1
Color	1		Black	Black	Black	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
Chain line (mm)			52	52	55	53.4	51.8	53.4
O.L.D.	Thru (mm)	157	-	-	-	-	-	-
		150	-	-	-	-	-	-
		148	✓	✓	✓	✓	✓	✓
		142	✓	✓	-	-	-	-
	QR/Nut (mm)	141	✓	✓	✓	✓	✓	✓
		135	✓	✓	-	-	-	-
P.C.D. (mm)			96	96	96	96	96/64	96
Spider/gear arms			4	4	4	4	4	4
Chainring combination			30T, 32T, 34T	30T, 32T	30T, 32T	30T, 32T	34-24T, 36-26T	30T, 32T (SM-CRM81)
Q-factor (mm)			177	178.5	178.5	174	174	176
Crank arm length (mm)	150		-	-	-	-	-	-
	157.5		-	-	-	-	-	-
	160		-	-	-	-	-	-
	165		-	✓	✓	-	-	-
	167.5		-	-	-	-	-	-
	170		✓	✓	✓	✓	✓	✓
	172.5		-	-	-	-	-	-
	175		✓	✓	✓	✓	✓	✓
	177.5		-	-	-	-	-	-
	180		-	-	-	-	-	- (30T), ✓ (32T)
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	SM-BB93	SM-BB93	BB-MT801
	Threaded (E-type)		-	-	-	-	-	-
	Threaded (chain case)		-	-	-	-	-	-
	Press-Fit		BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	SM-BB94-41A	SM-BB94-41A	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		Painted	Painted	Painted	Anodized	Anodized	Anodized
Crank axle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material		Aluminum	-	-	-	Aluminum	Aluminum
	Finish		Painted	-	-	-	Anodized	Painted
Spider arm cover	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer ring	Material		Steel (30T, 32T), Steel+GF composite (34T)	Steel	Steel	Aluminum	Titanium+Aluminum	Steel+CF composite
	Finish		Painted (30T, 32T), Plated (34T, teeth)	Painted	Painted	Anodized	-	Plated (teeth), Painted (body)
Middle ring	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Inner ring	Material		-	-	-	-	Aluminum	-
	Finish		-	-	-	-	Plated	-
Outer/middle ring fixing bolt	Material		Stainless steel	Stainless steel	Stainless steel	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	-	Anodized	Anodized
Inner ring fixing screw	Material		-	-	-	-	Aluminum	-
	Finish		-	-	-	-	Anodized	-
Stainless chain guard fixing screw			-	-	-	-	-	-
Crank fixing screw included			✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)			-	-	-	581 (30T) 589 (32T)	633 (34-24T) 652 (36-26T)	669 (30T) 682 (32T)
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.

Crankset

Series			DEORE XT	DEORE	DEORE	DEORE	SAINT	SAINT
Model no.			FC-M8000-B2	FC-M5100-1	FC-M5100-2	FC-M5100-B2	FC-M820	FC-M825
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			11	11/10	11	11	10	10
Compatible chain			LINKGLIDE, HG 11-speed	HG 11-speed, HG-X 10-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG-X 10-speed	HG-X 10-speed
Chain line (mm)			51.8	52	48.8	51.8	50.4	57.9
O.L.D.	Thru (mm)	157	-	-	-	-	-	✓
		150	-	-	-	-	-	✓
		148	✓	✓	-	✓	-	-
		142	-	✓	✓	-	✓	-
	QR/Nut (mm)	141	✓	✓	-	✓	-	-
		135	-	✓	✓	-	✓	-
P.C.D. (mm)			96/64	96	96/64	96/64	104	104
Spider/gear arms			4	4	4	4	4	4
Chainring combination			34-24T, 36-26T	30T, 32T	36-26T	36-26T	34T, 36T, 38T (SM-CR82)	34T, 36T, 38T (SM-CR82)
Q-factor (mm)			176	178.5	178.5	178.5	178	193
Crank arm length (mm)	150		-	-	-	-	-	-
	157.5		-	-	-	-	-	-
	160		-	-	-	-	-	-
	165		-	-	-	-	✓	✓
	167.5		-	-	-	-	-	-
	170		✓	✓	✓	✓	✓	✓
	172.5		-	-	-	-	-	-
	175		✓	✓	✓	✓	✓	✓
	177.5		-	-	-	-	-	-
	180		- (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)		BB-MT801	BB-MT501	BB-MT501	BB-MT501	SM-BB80	SM-BB80
	Threaded (E-type)		-	-	-	-	-	-
	Threaded (chain case)		-	-	-	-	-	-
	Press-Fit		BB-MT800-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	SM-BB71-41A	SM-BB71-41C
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	Anodized	Anodized
Crank axle	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material		Aluminum	-	-	-	Aluminum	Aluminum
	Finish		Painted	-	-	-	Painted	Painted
Spider arm cover	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer ring	Material		Aluminum+CF composite	Steel	Steel	Steel	-	-
	Finish		Plated (teeth), Painted (body)	Painted	Painted	Painted	-	-
Middle ring	Material		-	-	-	-	Aluminum	Aluminum
	Finish		-	-	-	-	Anodized	Anodized
Inner ring	Material		Aluminum	-	Steel	Steel	-	-
	Finish		Plated	-	Painted	Painted	-	-
Outer/middle ring fixing bolt	Material		Aluminum	Stainless steel	Stainless steel	Stainless steel	Aluminum	Aluminum
	Finish		Anodized	Painted	Painted	Painted	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)			688 (34-24T) 711 (36-26T)	-	-	-	814 (34T) 824 (36T) 834 (38T)	825 (34T) 836 (36T) 845 (38T)
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.					For 83 mm bottom bracket shell width

Crankset

Series			ZEE	ZEE	DEORE	DEORE	DEORE	SHIMANO
Model no.			FC-M640	FC-M645	FC-M6000-2	FC-M4100-2	FC-M4100-B2	FC-MT500-2
Color	1		Series color	Series color	Series black	Series color	Series color	Black
	2		-	-	-	-	-	-
Rear speeds			10	10	10	10	10	10
Compatible chain			HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Chain line (mm)			50.4	57.9	48.8	48.8	51.8	48.8
O.L.D.	Thru (mm)	157	-	✓	-	-	-	-
		150	-	✓	-	-	-	-
		148	-	-	-	-	✓	-
		142	✓	-	✓	✓	-	✓
	QR/Nut (mm)	141	-	-	-	-	✓	-
		135	✓	-	✓	✓	-	✓
P.C.D. (mm)			104	104	96/64	96/64	96/64	96/64
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	36-26T
Q-factor (mm)			174.7	189.7	176	178.5	178.5	177
Crank arm length (mm)	150		-	-	-	-	-	-
	157.5		-	-	-	-	-	-
	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	-	-	-	-
	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+GF composite
	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) (170 mm, w/o bottom bracket)			797 (34T) 807 (36T) 818 (38T)	827 (34T) 837 (36T) 848 (38T)	-	-	-	-
Note				For 83 mm bottom bracket shell width				

Crankset

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			FC-MT500-3	FC-MT210-3	FC-MT210-2	FC-MT210-B2	FC-M371	FC-M315-2
Color	1		Black	Black	Black	Black	Black	Black
	2		-	-	-	-	-	-
Rear speeds			10	9	9	9	9	8/7
Compatible chain			HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 8/7/6-speed
Chain line (mm)			50	50	48.8	51.8	50	48.8
O.L.D.	Thru (mm)	157	-	-	-	-	-	-
		150	-	-	-	-	-	-
		148	-	-	-	✓	-	-
		142	✓	✓	✓	-	✓	✓
	QR/Nut (mm)	141	-	-	-	✓	-	-
		135	✓	✓	✓	-	✓	✓
P.C.D. (mm)			96/64	Riveted	Riveted	Riveted	Riveted	Riveted
Spider/gear arms			4	4	4	4	4	4
Chainring combination			40-30-22T	40-30-22T, 44-32-22T	36-22T, 46-30T	36-22T	44-32-22T, 48-36-26T	36-22T
Q-factor (mm)			177	176	176	176	180.5	179.4
Crank arm length (mm)	150		-	-	-	-	-	-
	157.5		-	-	-	-	-	-
	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-UN300	BB-UN101
	Threaded (E-type)		SM-BB52	-	-	-	-	-
	Threaded (chain case)		-	-	-	-	BB-UN300-K	-
	Press-Fit		BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	-	-
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	Aluminum	Aluminum	Aluminum
	Finish		Painted	Anodized	Anodized	Anodized	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	Resin	Resin	Resin	Resin
	Finish		-	Resin	Resin	Resin	Resin	Resin
Outer ring	Material		Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish		Anodized	Painted	Painted	Painted	Painted	Painted
Middle ring	Material		Steel	Steel	-	-	Steel	-
	Finish		Plated	Painted	-	-	Painted	-
Inner ring	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material		Stainless steel *1	-	-	-	-	-
	Finish		-	-	-	-	-	-
Inner ring fixing screw	Material		Stainless steel	-	-	-	-	-
	Finish		-	-	-	-	-	-
Stainless chain guard fixing screw			-	✓	-	-	-	-
Crank fixing screw included			✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)			-	-	-	-	-	-
Note			*1 It is fixed on the threaded middle ring.	SHIMANO logo	-	Chain line 3 mm outboard	SHIMANO logo	SHIMANO logo

Crankset

Series			SHIMANO
Model no.			FC-M315-B2
Color	1		Black
	2		-
Rear speeds			8/7
Compatible chain			HG 8/7/6-speed
Chain line (mm)			51.8
O.L.D.	Thru (mm)	157	-
		150	-
		148	✓
		142	-
	QR/Nut (mm)	141	✓
		135	-
P.C.D. (mm)			Riveted
Spider/gear arms			4
Chainring combination			36-22T
Q-factor (mm)			179.4
Crank arm length (mm)	150		-
	157.5		-
	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
	Threaded (E-type)		-
	Threaded (chain case)		-
	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		Resin
	Finish		Resin
Outer ring	Material		Steel
	Finish		Painted
Middle ring	Material		-
	Finish		-
Inner ring	Material		Steel
	Finish		Painted
Outer/middle ring fixing bolt	Material		-
	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			SHIMANO logo, Chain line 3 mm outboard

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	Material	Resin	Resin	Aluminum	Aluminum
	Guide unit	Material	Resin	Resin	Resin	Aluminum
Bash guard	Compatible FC		-	-	-	FC-M820, FC-M825
	Top gear teeth		-	-	-	34T, 36T, 38T
Average weight (g)			28	25	33	-
Note						

Chainring

Series		XTR	XTR	DEORE XT	DEORE XT	SLX	DEORE XT
Model no.		SM-CRM96	SM-CRM95	SM-CRM86	SM-CRM85	SM-CRM75	SM-CRM81
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	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
Chainring	Material	Aluminum	Aluminum	Aluminum	Steel (teeth)/CFRP (body)/Aluminum (arm)	Steel (teeth)/GFRP (body)/Aluminum (arm)	Steel (teeth)/CFRP (body)
	Finish	Anodized	Plated	Anodized	Painted (teeth)/Anodized (arm)	Painted (teeth)/Painted (arm)	Plated (teeth)/Painted (body)
Note							

Chainring

Series		SLX	DEORE	SHIMANO
Model no.		SM-CRM70	SM-CRM66	SM-CR82
Color	1	Series color	Series color	Black
	2	-	-	-
	3	-	-	-
Gear speed		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	✓	✓	✓ *1
P.C.D. (mm)		96	-	104
Chainring	Material	Steel (teeth)/GFRP (body)	Steel	Aluminum
	Finish	Plated (teeth)	Painted	Anodized
Note				*1 SM-CD50 bash guard is compatible

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	XTR	DEORE XT
Model no.		CS-M9200-12	CS-M9101-12	CS-M8200-12
Type		HYPERGLIDE+	HYPERGLIDE+	HYPERGLIDE+
Rear speeds		12	12	12
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed
Combination name (Group name)		9-45T, 10-51T	10-45T, 10-51T	9-45T, 10-51T
Combination * Titanium gear	1	9-11-13-15-17-19*-21*-24*-28*-33*-39-45T	10-12-14-16-18-21-24-28-32-36-40-45T	9-11-13-15-17-19-21-24-28-33-39-45T
	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	Anodized	Painted
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	5 (9-45T), 4 (10-51T)	5	-
	Finish	Shot	Shot	-
Aluminum gear	QTY (pcs)	2 (9-45T), 3 (10-51T)	3	1 (9-45T), 2 (10-51T)
	Finish	Anodized	Painted	Anodized
Steel gear	QTY (pcs)	5	4	11 (9-45T), 10 (10-51T)
	Finish	Plated	Plated	Plated
Lock ring	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Average weight (g)		327 (9-45T) 369 (10-51T)	357 (10-45T) 367 (10-51T)	426 (9-45T) 463 (10-51T)
Note		TL-LR021, Lock ring tool for 9-45T is compatible with 12mm E-THRU.		TL-LR021, Lock ring tool for 9-45T is compatible with 12mm E-THRU.

Series		DEORE XT	DEORE	SLX
Model no.		CS-M8100-12	CS-M7200-12	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	10-51T	10-45T, 10-51T
Combination * Titanium gear	1	10-12-14-16-18-21-24-28-32-36-40-45T	10-12-14-16-18-21-24-28-33-39-45-51T	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
	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	Painted	Anodized	Painted
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	2	1	1
	Finish	Anodized	Anodized	Anodized
Steel gear	QTY (pcs)	10	11	11
	Finish	Plated	Plated	Plated
Lock ring	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Average weight (g)		461 (10-45T) 470 (10-51T)	509	513 (10-45T) 534 (10-51T)
Note				

Cassette

Series		DEORE	DEORE	DEORE XT
Model no.		CS-M6200-12	CS-M6100-12	CS-M8000
Type		HYPERGLIDE+	HYPERGLIDE+	HG
Rear speeds		12	12	11
Compatible chain		HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed
Combination name (Group name)		10-51T	10-51T	11-40T (bs), 11-42T (bt), 11-46T (bu)
Combination * Titanium gear	1	10-12-14-16-18-21-24-28-33-39-45-51T	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)
	2	-	-	11-13-15-17-19-21-24-28-32-37-42**T (bt)
	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	1	2
	Finish	Anodized	Painted	Anodized
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	2
	Finish	-	-	-
Steel gear	QTY (pcs)	12	12	9
	Finish	Plated	Plated	Shot-Ni
Lock ring	Material	Aluminum	Steel	Aluminum
	Finish	Anodized	Plated	Anodized
Average weight (g)		-	-	411 (11-40T), 434 (11-42T), 437 (11-46T)
Note				** Aluminum gear

Series		DEORE	DEORE XT	DEORE
Model no.		CS-M5100-11	CS-M771-10	CS-M4100-10
Type		HG	HG	HG
Rear speeds		11	10	10
Compatible chain		LINKGLIDE, HG 11-speed	HG-X 10-speed	HG-X 10-speed
Combination name (Group name)		11-42T, 11-51T	11-32T (bL), 11-34T (bJ), 11-36T (bk)	11-42T, 11-46T
Combination * Titanium gear	1	11-13-15-17-19-21-24-28-32-37-42T	11-12-14-16-18-20-22-25-28-32T (bL)	11-13-15-18-21-24-28-32-37-42T
	2	11-13-15-18-21-24-28-33-39-45-51T	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)	1	2	-
	Finish	Painted	Anodized	-
Steel spider arm	QTY (pcs)	-	-	1
	Finish	-	-	Plated
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	11	10	10
	Finish	Plated	Shot-Cr	Plated
Lock ring	Material	Steel	Aluminum	Steel
	Finish	Plated	Anodized	Plated
Average weight (g)		-	294 (11-32T) 323 (11-34T) 343 (11-36T)	-
Note				

Cassette

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG50-10	CS-HG201-9	CS-HG200-9
Type		HG	HG	HG
Rear speeds		10	9	9
Compatible chain		HG-X 10-speed	HG 9-speed	HG 9-speed
Combination name (Group name)		11-36T (bk)	11-32T (bo), 11-34T (bn), 11-36T (bw)	11-32T (bo), 11-34T (bn), 11-36T (bw)
Combination * Titanium gear	1	11-13-15-17-19-21-24-28-32-36T (bk)	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)	1	-	-
	Finish	Nickel plated	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	10	9	9
	Finish	Nickel plated	Ni-Ni plated (Top gear: Phosphate coated)	Phosphate coated
Lock ring	Material	Steel	Steel	Steel
	Finish	Chrome plated	Phosphate coated	Phosphate coated
Average weight (g)		-	-	-
Note				

Front Hub (Disc Brake)

Series		XTR	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		HB-M9210-B	HB-M8210-B	HB-M8110	HB-M8110-B	HB-M8110-BS	HB-M8000
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	110	100	110	110	100
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	15 mm E-THRU	15 mm E-THRU	Quick release
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	-	-	-	-	-	✓
	158	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	✓	-	-	-
	110 x 15	✓	✓	-	✓	✓	-
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		70.2	70.2	60.2	70.2	62.8	60.2
Offset (mm)		5.4	5.4	5.7	5.7	3.7	6
P.C.D. left / right (mm)		44	44	44/44	44/44	45/45	44/41
Flange diameter left / right (mm)		52.8	52.8	52.8	52.8	51	52.8/51.4
Seal		Labyrinth+Contact	Labyrinth+Contact	-	-	-	Labyrinth+Contact
Internal grease sleeve		-	-	✓	✓	✓	✓
Bearing	Stainless ball	-	-	✓	✓	✓	-
	Cup	-	-	Polished	Polished	Polished	-
	Cone	-	-	CBN	CBN	CBN	CBN
	Cartridge	Stainless steel radial	SUJ2 radial	-	-	-	-
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)		121	130	142	147	158	167
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	-

Front Hub (Disc Brake)

Series		DEORE XT	DEORE XT	SLX	SLX	DEORE	DEORE
Model no.		HB-M8010	HB-M8010-B	HB-M7110	HB-M7110-B	HB-M6010	HB-M5100
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series black	Series black
	1 Quick release	-	-	-	-	-	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
O.L.D. (mm)		100	110	100	110	100	100
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	15 mm E-THRU	15 mm E-THRU	Quick release
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	-	-	-	-	-	✓
	158	-	-	-	-	-	✓
Thru axle (length x inner diameter ; mm)	100 x 15	✓	-	✓	-	✓	-
	110 x 15	-	✓	-	✓	-	-
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		60.2	70.2	60.2	70.2	60.2	60.2
Offset (mm)		5.4	5.4	5.7	5.7	5.3	5.6
P.C.D. left / right (mm)		44/44	44/44	44/44	44/44	44	44
Flange diameter left / right (mm)		52.8	52.8	52.8	52.8	52.8	52.8
Seal		Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
Internal grease sleeve		✓	✓	✓	✓	✓	-
Bearing	Stainless ball	-	-	✓	✓	-	-
	Cup	-	-	Polished	Polished	-	-
	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	Steel
	Finish	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	-	-	Steel	-
	Finish	Anodized	Anodized	-	-	-	-
Average weight (g)		148	158	142	147	-	-
Note		Axle is supplied with front fork.	-			-	

Front Hub (Disc Brake)

Series		SHIMANO
Model no.		HB-MT200
Color	1 Hub shell	Black
	1 Quick release	Black
	2 Hub shell	-
	2 Quick release	-
Brake type		CENTER LOCK disc brake
O.L.D. (mm)		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 skewer length (mm)	129	-
	133	✓
	158	-
Thru axle (length x inner diameter ; mm)	100 x 15	-
	110 x 15	-
	110 x 20	-
Flange distance (mm)		60.2
Offset (mm)		5.3
P.C.D. left / right (mm)		44/44
Flange diameter left / right (mm)		52.8 (32H/36H), 53.8 (28H)
Seal		Contact
Internal grease sleeve		-
Bearing	Stainless ball	-
	Cup	-
	Cone	-
	Cartridge	-
Hub shell	Material	Aluminum
	Finish	Painted
Axle	Material	Steel
	Finish	-
Quick release lever	Material	Steel
	Finish	Plated
Quick release housing	Material	Steel
	Finish	Plated
Quick release nut	Material	Steel+Resin
	Finish	-
Disc brake rotor lock ring	Material	-
	Finish	-
Average weight (g)		-
Note		-

FREEHUB (Disc Brake)

Series		XTR	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		FH-M9210-B	FH-M8210-B	FH-M8110	FH-M8110-B	FH-M8110-BS	FH-M8130-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)		148	148	142	148	148	157
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	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)		63.0	62.2	55.17	62.16	55.95	72.69
Offset (mm)		7	6.6	6.72	6.6	6.78	6.43
P.C.D. left / right (mm)		47.25/61	60/61	61/61	60/61	45/61	58/61
Flange diameter left / right (mm)		68.8/69.8	68.8/69.8	69.8/69.8	68.8/69.8	51/68.4	66.8/69.8
Spline type	MICRO SPLINE (12-speed)	✓	✓	✓	✓	✓	✓
	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	DIRECT ENGAGEMENT	DIRECT ENGAGEMENT	DIRECT ENGAGEMENT
Quick engagement		✓ (max 3.5 deg.)	✓ (max 3.5 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	Labyrinth+Contact	Labyrinth+Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	Polished	Polished	Polished	Polished
	Cone	-	-	CBN+Polish	CBN+Polish	CBN+Polish	CBN+Polish
	Cartridge	Stainless steel radial	SUJ2 radial	-	-	-	-
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	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	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	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		231	251	305	307	306	310
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		DEORE XT	DEORE XT	DEORE XT	SLX	SLX	DEORE
Model no.		FH-M8000	FH-M8010	FH-M8010-B	FH-M7110	FH-M7110-B	FH-M6010
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series black
	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)		135	142	148	142	148	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		Quick release	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)		57.4	57.4	63.4	55.17	62.16	57.4
Offset (mm)		6.9	6.4	6.4	6.72	6.6	6.4
P.C.D. left / right (mm)		44/45	44/45	44/45	61/61	60/61	44/45
Flange diameter left / right (mm)		52.8/53.8	52.8/53.8	52.8/53.8	69.8/69.8	68.8/69.8	52.8/53.8
Spline type	MICRO SPLINE (12-speed)	-	-	-	✓	✓	-
	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	DIRECT ENGAGEMENT	DIRECT ENGAGEMENT	Pawl ratchet
Quick engagement		✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 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	-	-	-	Polished	Polished	-
	Cone	CBN	CBN	CBN	CBN+Polish	CBN+Polish	CBN
	Cartridge	-	-	-	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Aluminum	Aluminum	Steel
	Finish	-	-	-	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	Steel
	Finish	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)		331	359	367	350	354	-
Note							

FREEHUB (Disc Brake)

Series		DEORE
Model no.		FH-M5100
Color	1 Hub shell	Series black
	1 Quick release	Series black
	2 Hub shell	-
	2 Quick release	-
Brake type		CENTER LOCK disc brake
O.L.D. (mm)		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		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
Offset (mm)		7.6
P.C.D. left / right (mm)		45
Flange diameter left / right (mm)		53.8
Spline type	MICRO SPLINE (12-speed)	-
	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
Quick engagement		-
Seal	Hub	Labyrinth+Contact
	FREEHUB body	Contact
Internal grease sleeve		✓
Bearing	Stainless ball	-
	Cup	-
	Cone	CBN
	Cartridge	-
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	Aluminum
	Finish	Painted
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)		-
Note		

Wheel (Disc Brake)

Series		XTR	XTR	XTR	XTR	DEORE XT	DEORE XT
Model no.		WH-M9200-TL-F15-B-29	WH-M9200-TL-R12-B-29	WH-M9220-TL-F15-B-29	WH-M9220-TL-R12-B-29	WH-M8200-TL-F15-B-29	WH-M8200-TL-F15-B-275
Model name		WH-M9200-TL	WH-M9200-TL	WH-M9220-TL	WH-M9220-TL	WH-M8200-TL	WH-M8200-TL
Specification		F15-B-29	R12-B-29	F15-B-29	R12-B-29	F15-B-29	F15-B-275
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	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
O.L.D. (mm)		110	148	110	148	110	110
Wheel size		622 x 29.6TC (29 inch)	622 x 29.6TC (29 inch)	622 x 30TSS (29 inch)	622 x 30TSS (29 inch)	622 x 30TC (29 inch)	584 x 30TC (27.5 inch)
Tire	Type	Tubeless ready	Tubeless ready	Tubeless ready	Tubeless ready	Tubeless ready	Tubeless ready
	Recommended size	29 x 2.20 - 2.60	29 x 2.20 - 2.60	29 x 2.30 - 2.60	29 x 2.30 - 2.60	29 x 2.30 - 2.60	27.5 x 2.30 - 2.60
Rim	Height (mm)	19.2	19.2	19.7	19.7	19.8	19.8
	Internal width (mm)	29.6	29.6	30	30	30	30
	External width (mm)	35	35	38	38	34.7	34.7
	Rim joint	-	-	-	-	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	✓	✓	✓	✓	✓	✓
	Requires rim tape	✓ (30-622)	✓ (30-622)	✓ (30-622)	✓ (30-622)	✓ (30-622)	✓ (30-584)
Spokes	Number	24	24	28	28	28	28
	Straight pull	✓	✓	-	-	-	-
	J-bend	-	-	✓	✓	✓	✓
	Diameter (mm)	2.2-2.0-1.7-2.0	2.2-2.0-1.7-2.0	2.0-1.6	2.0-1.6	2.0-1.8	2.0-1.8
Axle fixing method		15 mm E-THRU	12 mm E-THRU	15 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 (12-speed)	-	✓	-	✓	-	-
	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 3.5 deg.)	-	✓ (max 3.5 deg.)	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	-	-
	Cartridge	Stainless steel radial	Stainless steel radial	Stainless steel radial	Stainless steel radial	SUJ2 radial	SUJ2 radial
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	-	Labyrinth+Contact	-	Labyrinth+Contact	-	-
Internal grease sleeve		-	-	-	-	-	-
Rim	Material	Carbon	Carbon	Carbon	Carbon	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Titanium	Titanium	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	-	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	-	-	-	-	-	-
	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)		517	640	840	951	931	877
Note							

Wheel (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		WH-M8200-TL-R12-B-29	WH-M8200-TL-R12-B-275	WH-M8100-TL-F15-B-29	WH-M8100-TL-F15-B-275	WH-M8100-TL-R12-B-29	WH-M8100-TL-R12-B-275
Model name		WH-M8200-TL	WH-M8200-TL	WH-M8100-TL	WH-M8100-TL	WH-M8100-TL	WH-M8100-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
O.L.D. (mm)		148	148	110	110	148	148
Wheel size		622 x 30TC (29 inch)	584 x 30TC (27.5 inch)	622 x 24C (29 inch)	584 x 24C (27.5 inch)	622 x 24C (29 inch)	584 x 24C (27.5 inch)
Tire	Type	Tubeless ready	Tubeless ready	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	29 x 2.30 - 2.60	27.5 x 2.30 - 2.60	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
Rim	Height (mm)	19.8	19.8	18.8	18.8	18.8	18.8
	Internal width (mm)	30	30	23.8	23.8	23.8	23.8
	External width (mm)	34.7	34.7	27.9	27.9	27.9	27.9
	Rim joint	Welded	Welded	Welded	Welded	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	✓	✓	✓	✓	✓	✓
	Requires rim tape	✓ (30-622)	✓ (30-584)	✓ (24-622)	✓ (24-584)	✓ (24-622)	✓ (24-584)
Spokes	Number	28	28	28	28	28	28
	Straight pull	-	-	✓	✓	✓	✓
	J-bend	✓	✓	-	-	-	-
	Diameter (mm)	2.0-1.8	2.0-1.8	2-1.5	2-1.5	2-1.5	2-1.5
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 (12-speed)	✓	✓	-	-	✓	✓
	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	DIRECT ENGAGEMENT
Quick engagement		✓ (max 3.5 deg.)	✓ (max 3.5 deg.)	-	-	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)
Bearing	Stainless ball	-	-	✓	✓	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	CBN	CBN	CBN+Polish	CBN+Polish
	Cartridge	SUJ2 radial	SUJ2 radial	-	-	-	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	Labyrinth+Contact	Labyrinth+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	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black	Black	Black	Black	Black	Black
FREEHUB body	Material	Aluminum	Aluminum	-	-	Aluminum	Aluminum
	Finish	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	-	-	-	-	-	-
	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)		1052	997	846	808	994	956
Note							

Wheel (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	SHIMANO	SHIMANO
Model no.		WH-M8120-TL-F15-B-29	WH-M8120-TL-F15-B-275	WH-M8120-TL-R12-B-29	WH-M8120-TL-R12-B-275	WH-MT620-TL-F15-B-29	WH-MT620-TL-F15-B-275
Model name		WH-M8120-TL	WH-M8120-TL	WH-M8120-TL	WH-M8120-TL	WH-MT620-TL	WH-MT620-TL
Specification		F15-B-29	F15-B-275	R12-B-29	R12-B-275	F15-B-29	F15-B-275
Color	1 Hub shell	Series color	Series color	Series color	Series color	Black	Black
	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
O.L.D. (mm)		110	110	148	148	110	110
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	✓ (30-584)	✓ (30-584)	✓ (30-622)	✓ (30-584)	✓ (30-584)	✓ (30-584)
Spokes	Number	28	28	28	28	24	24
	Straight pull	-	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓	✓
	Diameter (mm)	2.0-1.8	2.0-1.8	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 (12-speed)	-	-	✓	✓	-	-
	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	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Brass	Brass
	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	Painted	Painted
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	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 RR317-WUA SW	CATEYE RR317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		941	875	1061	1016	990	940
Note							

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-MT620-TL-R12-B-29	WH-MT620-TL-R12-B-275	WH-MT601-TL-F15-29	WH-MT601-TL-R12-29	WH-MT601-TL-F15-275	WH-MT601-TL-R12-275
Model name		WH-MT620-TL	WH-MT620-TL	WH-MT601-TL	WH-MT601-TL	WH-MT601-TL	WH-MT601-TL
Specification		R12-B-29	R12-B-275	F15-29	R12-29	F15-275	R12-275
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		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	CENTER LOCK disc brake
O.L.D. (mm)		148	148	100	142	100	142
Wheel size		622 x 30C (29 inch)	584 x 30C (27.5 inch)	622 x 25C (29 inch)	622 x 25C (29 inch)	584 x 25C (27.5 inch)	584 x 25C (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 2.00 - 2.40	29 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40
Rim	Height (mm)	19.8	19.8	20.8	20.8	20.8	20.8
	Internal width (mm)	30	30	25	25	25	25
	External width (mm)	34.7	34.7	29.7	29.7	29.7	29.7
	Rim joint	Welded	Welded	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	✓	✓	-	-	-	-
	Requires rim tape	✓ (30-584)	✓ (30-584)	✓ (25-622)	✓ (25-622)	✓ (25-584)	✓ (25-584)
Spokes	Number	24	24	24	24	24	24
	Straight pull	-	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓	✓
	Diameter (mm)	-	-	2.3	2.3	2.3	2.3
Axle fixing method		12 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 (12-speed)	✓	✓	-	✓	-	✓
	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.)	-	✓ (36 times/360 deg.)
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	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	Brass	Brass	Brass	Brass	Brass	Brass
	Finish	Black	Black	Plated	Plated	Plated	Plated
FREEHUB body	Material	Steel	Steel	-	Steel	-	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Axle	Material	Steel	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 RR317-WUA SW	CATEYE RR317-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)		1255	1206	931	1238	884	1189
Note							

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-MT601-TL-F15-B-29	WH-MT601-TL-R12-B-29	WH-MT601-TL-F15-B-275	WH-MT601-TL-R12-B-275	WH-MT501-CL-R12-B-29	WH-MT501-CL-R12-B-275
Model name		WH-MT601-TL	WH-MT601-TL	WH-MT601-TL	WH-MT601-TL	WH-MT501-CL	WH-MT501-CL
Specification		F15-B-29	R12-B-29	F15-B-275	R12-B-275	R12-B-29	R12-B-275
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	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
O.L.D. (mm)		110	148	110	148	148	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 24C (29 inch)	584 x 24C (27.5 inch)
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Clincher	Clincher
	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	27.5 x 2.00 - 2.40
Rim	Height (mm)	20.8	20.8	20.8	20.8	21	21
	Internal width (mm)	25	25	25	25	24	24
	External width (mm)	29.7	29.7	29.7	29.7	29.6	29.6
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓ (25-622)	✓ (25-622)	✓ (25-584)	✓ (25-584)	✓ (24-622)	✓ (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	15 mm E-THRU	12 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 (12-speed)	-	✓	-	✓	✓	✓
	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.)	-	✓ (36 times/360 deg.)	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	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	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	Plated	Plated	Black	Black
FREEHUB body	Material	-	Steel	-	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	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	-	-	-	-	-	-
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 RR317-WUA SW	CATEYE RR317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		935	1248	888	1199	1260	1208
Note							

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-MT500-CL-F-275	WH-MT500-CL-R-275	WH-MT500-CL-F15-275	WH-MT500-CL-R12-275	WH-MT500-CL-F15-B-275	WH-MT500-CL-R12-B-275
Model name		WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL
Specification		F-275	R-275	F15-275	R12-275	F15-B-275	R12-B-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	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
O.L.D. (mm)		100	135	100	142	110	148
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)	584 x 24C (27.5 inch)	584 x 24C (27.5 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	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40
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)	✓ (24-584)	✓ (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		Quick release	Quick release	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 (12-speed)	-	-	-	-	-	-
	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	Steel	Steel	Aluminum	Steel	Aluminum	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)		962	1147	936	1133	946	1145
Note		-	*** Spoke protector is available only for 9 & 10-speed	-	*** 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	SHIMANO	SHIMANO
Model no.		WH-MT500-CL-F-29	WH-MT500-CL-R-29	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	WH-MT500-CL	WH-MT500-CL
Specification		F-29	R-29	F15-29	R12-29	F15-B-29	R12-B-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
O.L.D. (mm)		100	135	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)	622 x 24C (29 inch)	622 x 24C (29 inch)
Tire	Type	Clincher	Clincher	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	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	✓ (24-622)	✓ (24-622)	✓ (24-622)	✓ (24-622)	✓ (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		Quick release	Quick release	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 (12-speed)	-	-	-	-	-	-
	HG spline J2 (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	Steel	Steel	Aluminum	Steel	Aluminum	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)		1013	1200	988	1186	998	1199
Note		-	-	-	-	-	-

TREKKING

TREKKING

		Page	
<Mechanical spec.>	Shifter	70	SL
	Brake Lever (Hydraulic Disc Brake)	71	BL
	Brake Lever	72	BL
	Rear Derailleur	73	RD
	Front Derailleur	74	FD
	Brake (V-BRAKE)	75	BR
	Crankset	76	FC

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
Model no.		BL-T8100	BL-T6000
Brake type		Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		3	3
Color	1	Series color	Series black
	2	-	Series silver
	3	-	Black (SHIMANO logo) *1
Brake hose (kit)		SM-BH90-SBM	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	✓	✓
	I-SPEC EV	-	-
Clamp band	Open clamp	✓	✓
Recommended brake caliper		BR-M8100, BR-M8120	BR-M6000
Oil		SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓
Clamp screw	Material	Stainless steel	Stainless steel
	Finish	Painted	-
Brake lever	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Average weight (g)		108	-
Note			*1 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	✓	✓ *1	✓	✓ *1
	Mechanical disc brake (MTB)	✓	✓ *1	✓	✓ *1
	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	✓ *1	✓ *2	-	-
	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 *1 I-SPEC B-type	For Trekking *1 POWER MODULATOR must be used for front brake *2 I-SPEC B-type		*1 POWER MODULATOR must be used for front brake

Rear Derailleur

Series			DEORE XT	DEORE
Model no.			RD-T8000-SGS	RD-T6000-SGS
Color	1		Series color	Series black
	2		-	-
Rear speeds			10	10
Compatible chain			HG-X 10-speed	HG-X 10-speed
RD construction	SHIMANO SHADOW RD		✓	✓
	SHIMANO SHADOW RD+		-	-
	Double servo		-	-
	SHADOW ES		-	-
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
Total capacity			47T	47T
Low sprocket	Max.		36T	36T
	Min.		32T	32T
Top sprocket	Max.		11T	11T
	Min.		11T	11T
Fluoric coated link bushings			4	3
Pulley	Guide pulley bearing		Sealed bearing	-
	Tension pulley bearing		Sealed bearing	-
	Teeth		11T	11T
	Screws material		Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓
Bracket	Material		Aluminum	Steel
	Finish		Painted	Painted
B-axle	Hollow axle		✓	✓
	Material		Stainless steel	Stainless steel
	Finish		-	-
B-axle 2	Hollow axle		✓	✓
	Material		Stainless steel	Stainless steel
	Finish		-	-
Bracket body	Material		Aluminum	Aluminum
	Finish		Painted	Painted
P-axle	Material		Steel	Steel
	Finish		-	-
Plate body	Material		Aluminum	GFRP
	Finish		Painted	-
Outer link	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Inner link	Material		Aluminum	Steel
	Finish		Painted	Painted
Outer plate	Material		Aluminum	Steel
	Finish		Painted	Painted
Inner plate	Material		Aluminum	Steel
	Finish		Painted	Painted
Cable fixing screw	Material		Stainless steel	Steel
	Finish		Plated	Plated
Stroke adjusting screw	Material		Steel	Steel
	Finish		Plated	Plated
Average weight (g)			253	-
Note				

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	✓ *1	✓ *1	✓ *1	✓ (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			*1 w/ S-size adapter which is available only OTC package	*1 w/ S-size adapter which is available only OTC package	*1 w/ S-size adapter which 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	SHIMANO
Model no.			FC-T6010	FC-T521
Color	1		Series black	Black
	2		-	Silver
Rear speeds			10	10
Compatible chain			HG-X 10-speed	HG-X 10-speed
Chain line (mm)			50	50
O.L.D.	Thru (mm)	157	-	-
		150	-	-
		148	-	-
		142	✓	✓
	QR/Nut (mm)	141	-	-
		135	✓	✓
P.C.D. (mm)			104/64	104/64
Spider/gear arms			4	4
Chainring combination			48-36-26T	44-32-24T, 48-36-26T
Q-factor (mm)			181.5	185.8
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-MT501	BB-ES300
	Threaded (E-type)		-	-
	Threaded (chain case)		BB-MT501	-
	Press-Fit		BB-MT500-PA	-
Axle length of BB-UN/ES (mm)			-	121-AK
Threaded bottom bracket shell width (mm)	68		✓	✓
	73		✓	✓
	83		-	-
Chain case compatible			✓	✓
Crank arm	Material		Aluminum	Aluminum
	Finish		Anodized	Painted
Crank axle	Material		Steel	-
	Finish		Plated	-
Spider arm	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Spider arm cover	Material		-	-
	Finish		-	-
Outer ring	Material		Aluminum	Aluminum
	Finish		Anodized	Anodized
Middle ring	Material		Steel	Steel+GF composite (44-32-24T), Steel (48-36-26T)
	Finish		Painted	Painted
Inner ring	Material		Steel	Steel
	Finish		Painted	Painted
Outer/middle ring fixing bolt	Material		Stainless steel	Stainless steel
	Finish		-	-
Inner ring fixing screw	Material		Stainless steel	Stainless steel
	Finish		-	-
Stainless chain guard fixing screw			✓	✓
Crank fixing screw included			✓	✓
Average weight (g) (175 mm, w/o bottom bracket)			-	-
Note				

GRAVEL

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Shift/Brake Lever (Hydraulic Disc Brake)

Series			GRX	GRX	GRX	GRX	GRX
Model no.			ST-RX825-R	ST-RX825-L	ST-RX815-R	ST-RX815-L	ST-RX715-R
Color	1		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
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
	Hose joint		Straight	Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black	Black
		2	-	-	-	-	-
	Recommended brake caliper		BR-RX820	BR-RX820	BR-RX810, BR-RX820	BR-RX810, BR-RX820	BR-RX410
	Oil		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
	Funnel bleeding		✓	✓	✓	✓	✓
	Free stroke adjust		✓	✓	✓	✓	✓
	SERVO WAVE		✓	✓	✓	✓	-
	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Anodized
Bracket	Material		CFRP	CFRP	CFRP	CFRP	GFRP
	Finish		-	-	-	-	-
Electric button	Material		GFRP	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	0
SD300 port (pcs)			1	1	0	0	1
SD50 connector (pcs)			0	0	0	0	0
SD300 connector (pcs)			0	0	0	0	0
Port for SD50 remote sprinter shifter (pcs)			0	0	0	0	0
Port for SD300 satellite shifter (pcs)			1	1	0	0	0
Battery			CR1632 x 2	CR1632 x 2	-	-	CR1632 x 2
Average weight (g)			415 (/pair)	415 (/pair)	373 (/pair)	373 (/pair)	210 (/pcs)
Note							

Rear Derailleur

Series			GRX	GRX	GRX	GRX	GRX	GRX
Model no.			RD-RX825	RD-RX827-SGS	RD-RX829	RD-RX815	RD-RX817	RD-RX717-SGS
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			12	12	12	11	11	12
RD construction	SHIMANO SHADOW RD		-	-	-	-	-	-
	SHIMANO SHADOW RD+		✓	-	-	✓	✓	-
	Double servo		-	-	-	-	-	-
	SHADOW ES		-	✓	✓	-	-	✓
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	0T	0T	17T	-	0T
Total capacity			40T	41T	41T	38T	31T	41T
Low sprocket	Max.		36T	51T	51T	34T	42T	51T
	Min.		34T	51T	51T	30T	40T	51T
Top sprocket	Max.		11T	10T	10T	11T	11T	10T
	Min.		11T	10T	10T	11T	11T	10T
Fluoric coated link bushings			4	8	8	4	4	8
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		11/13T	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	-	-	Aluminum	Aluminum	-
	Finish		Painted	-	-	Anodized	Anodized	-
B-axle	Hollow axle		✓	✓	✓	✓	✓	✓
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	Coloring	Coloring	-	-	Coloring
B-axle 2	Hollow axle		✓	-	-	-	-	-
	Material		Aluminum	-	-	Aluminum	Aluminum	-
	Finish		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		-	Plated	Plated	Plated	Plated	Plated
Plate body	Material		GFRP	GFRP	GFRP	GFRP	Aluminum	GFRP
	Finish		-	-	-	Painted	Painted	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Anodized	Painted	Painted
Inner link	Material		GFRP	Aluminum	Aluminum	GFRP	Steel	Aluminum
	Finish		-	Painted	Painted	-	GFRP	Painted
Outer plate	Material		Aluminum	Aluminum	Aluminum	Aluminum	-	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Di2 connectivity wired	Di2 shifting		✓	-	✓	✓	✓	-
Di2 connectivity wireless	Di2 shifting		✓	✓	✓	-	-	✓
	Bluetooth® LE	Cycling power	-	-	-	-	-	-
	ANT+	Bicycle power	-	-	-	-	-	-
	Bluetooth® LE custom (*)	Adjust mode information	✓	✓	✓	-	-	✓
		Di2 battery level	✓	✓	-	-	-	✓
		Gear position	✓	✓	✓	-	-	✓
		SHIMANO E-BIKE SYSTEMS data items (***)	✓	✓	✓	-	-	✓
		Compatible with E-TUBE RIDE	✓	✓	✓	-	-	✓
		Compatible with E-TUBE PROJECT	✓	✓	✓	-	-	✓
	ANT private (**)	Adjust mode information	✓	✓	✓	-	-	✓
		Di2 battery level	✓	✓	-	-	-	✓
		Gear position	✓	✓	✓	-	-	✓
		SHIMANO E-BIKE SYSTEMS data items (***)	✓	✓	✓	-	-	✓
Firmware update by E-TUBE PROJECT			✓	✓	✓	✓	✓	✓
SD50 port (pcs)			0	0	0	1	1	0
SD300 port (pcs)			1	0	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			✓	✓	✓	-	-	✓
Power supply	Built-in battery		-	✓	-	-	-	✓
	Wired		✓	-	✓	✓	✓	-
Charging port			✓	-	-	-	-	-
Charging cable			EW-EC300	-	-	-	-	-
Average weight (g)			310	449	427	287	318	494
Note * Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. ** Compatible with ANT+ cycle computer but not freely open profile. *** Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.			w/o Bracket spec. available		*1 Compatible with EW-PS300			

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			

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 dropper 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		✓ *1
	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			*1 Pull: single Push: double

Brake Lever (Hydraulic Disc Brake, Drop Handlebar Type)

Series		GRX	GRX	GRX	GRX	GRX	GRX
Model no.		BL-RS717-L	BL-RX825-L	BL-RX820-L	BL-RX810-L	BL-RX810-L-LE	BL-RX610-L
Brake type		Hydraulic disc brake	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	Series color
	2	-	-	-	-	-	-
Bracket cover color	1	Standard	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-JK-SSR
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	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	23.8-24.2
Recommended brake caliper		BR-RX410	BR-RX820	BR-RX820	BR-RX810, BR-RX820	BR-RX820-LE	BR-RX400, BR-RX410
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓	✓	✓	✓	✓
Clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel
Bracket	Material	Engineering composite	Engineering composite	Engineering composite	Engineering composite	Engineering composite	Engineering composite
	Finish	-	-	-	-	-	-
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Master cylinder	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g)		188	188	222	222	222	543 (ST-RX610-R+BL-RX610-L)
Note							

Brake Lever (Hydraulic Disc Brake, Drop Handlebar Type)

Series		GRX
Model no.		BL-RX600-L
Brake type		Hydraulic disc brake
Lever size (finger)		-
Color	1	Series color
	2	-
Bracket cover color	1	Standard
	2	-
Brake hose (kit)		SM-BH90-JK-SSR SM-BH90-J-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-RX810, BR-RX410
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)		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-RX820	BR-RX820
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		-	-	-	-	-	-
	SHADOW ES		-	-	-	-	-	-
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		Stainless steel	Stainless steel	Stainless steel	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		-	-
	SHADOW ES		-	-
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
Model no.		BR-RX820	BR-RX820-LE	BR-RX410-F	BR-RX410-R
Color	1	Series color	Series color	Black	Black
	2	-	-	-	-
	3	-	-	-	-
Brake type		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
Hose joint		Straight	Straight	Straight	Straight
Brake hose color (kit)	1	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)
	Standard 2	L05A-RF Resin (w/ fin)	K05S-RX Resin (w/o fin)	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)
	Option 1	L04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)	L04C-MF Metal (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		ST-RX825, ST-RX820, ST-RX820-LA, BL-RX820-L	ST-RX810-LE, BL-RX810-L-LE, BL-T8100-LE	ST-RX610, ST-RX715, BL-RS717	ST-RX610, ST-RX715, BL-RS717
Recommended disc brake rotor	w/ metal and resin pad	RT-CL800	SM-RT800, RT-MT800	RT-CL700, SM-RT64	RT-CL700, SM-RT64
	w/ resin pad	-	-	-	-
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	✓	✓
Mount type		Flat mount	Flat mount	Flat mount	Flat mount
Piston		2	2	2	2
Piston material		Resin	Resin	Resin	Resin
Caliper	MONO-BODY	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Steel	Steel	Steel
	Tool size	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
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		139 (Front) 122 (Rear)	139 (Front) 122 (Rear)	-	-
Note			Front spec with adaptor	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, 44T, 46T	48-31T	40T, 42T	48-31T	40T
Q-factor (mm)		151	151	151	151	151	151
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-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)		718	646 (40T) 657 (42T) 658 (44T) 679 (46T)	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)	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-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
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 (12-speed)	-	-	-	✓	-	-
	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	Polished	Polished	Polished	Polished	Polished	Polished
	Cone	CBN+Polish	CBN+Polish	CBN+Polish	CBN+Polish	CBN	CBN
	Cartridge	-	-	-	-	-	-
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	-	-	-	-	-	-
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	SHIMANO	SHIMANO
Model no.		WH-RX570-TL-R12-700C	WH-RX570-TL-R12-650B	WH-RX180-TL-F12-700C	WH-RX180-TL-R12-700C
Model name		WH-RX570-TL	WH-RX570-TL	WH-RX180-TL	WH-RX180-TL
Specification		R12-700C	R12-650B	F12-700C	R12-700C
Color	1 Hub shell	Black	Black	Black	Black
	1 Quick release	-	-	-	-
	2 Hub shell	-	-	-	-
	2 Quick release	-	-	-	-
Front/Rear		Rear	Rear	Front	Rear
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		142	142	100	142
Wheel size		622 x 21C (700C)	584 x 21C (650B)	622 x 25C (700C)	622 x 25C (700C)
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	32-622 - 42-622	38-584 - 53-584	32-622 - 50-622	32-622 - 50-622
Rim	Height (mm)	22	22	21	21
	Internal width (mm)	21.6	21.6	25	25
	External width (mm)	26	26	28.8	28.8
	Rim joint	Welded	Welded	-	-
	Brazed reinforcement	-	-	-	-
	OFFSET RIM	✓	✓	✓	✓
	Requires rim tape	✓	✓	✓	✓
Spokes	Number	24	24	24	24
	Straight pull	✓	✓	-	-
	Bladed	✓	✓	-	-
	Butted	-	-	✓	✓
	Diameter (mm)	2	2	2.3-2.0-2.3	2.3-2.0-2.3
Axle fixing method		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 (12-speed)	-	-	-	✓
	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	Polished	Polished	-	-
	Cone	CBN	CBN	-	-
	Cartridge	-	-	✓	✓
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
	FREEHUB body	Contact	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	Aluminum	Aluminum	Brass	Brass
	Finish	Black	Black	Black	Black
FREEHUB body	Material	Steel	Steel	-	Steel
	Finish	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	-	Steel
	Finish	-	-	-	-
Quick release lever	Material	-	-	-	-
	Finish	-	-	-	-
Quick release housing	Material	-	-	-	-
	Finish	-	-	-	-
Quick release nut	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
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		951	920	917	1199 (HG spline L) 1206 (MICRO SPLINE)
Note					

ROAD

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	Shift/Brake Lever	101	ST
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<Mechanical spec.>	Shift/Brake Lever (Hydraulic Disc Brake)	105	ST
	Shift/Brake Lever	108	ST
	Shifter	111	SL
	Brake Lever (Hydraulic Disc Brake, Drop Handlebar Type)	113	BL
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	Brake Lever (Drop Handlebar Type)	115	BL
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	Brake (Hydraulic Disc Brake)	117	BR
	Brake (Mechanical Disc Brake)	119	BR
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	Bottom Bracket	136	BB
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	FREEHUB (Rim/Disc Brake)	141	FH
	Wheel (Disc Brake)	142	WH
	Wheel (Rim Brake)	149	WH
	Head Parts	154	HP

Shift/Brake Lever (Hydraulic Disc Brake)

Series			DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.			ST-R9271-R	ST-R9271-L	ST-R9270-R	ST-R9270-L	ST-R9171-R	ST-R9171-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-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-R9270	BR-R9270	BR-R9270	BR-R9270	BR-R9270	BR-R9270
	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	Carbon	Carbon	Carbon	Carbon
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Bracket	Material		CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
	Finish		-	-	-	-	-	-
Electric button	Material		CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
	Finish		Painted	Painted	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)			0	0	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	1	1
Battery			CR1632	CR1632	CR1632	CR1632	-	-
Average weight (g)			350 (/pair)	350 (/pair)	350 (/pair)	350 (/pair)	350 (/pair)	350 (/pair)
Note								

Shift/Brake Lever (Hydraulic Disc Brake)

Series			ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.			ST-R8171-R	ST-R8171-L	ST-R8170-R	ST-R8170-L	ST-R8071-R	ST-R8071-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-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-R8170	BR-R8170	BR-R8170	BR-R8170	BR-R8170	BR-R8170
	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		CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
	Finish		-	-	-	-	-	-
Electric button	Material		CFRP	CFRP	CFRP	CFRP	CFRP	CFRP
	Finish		Painted	Painted	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	-
SD300 port (pcs)			0	0	1	1	1	1
SD50 connector (pcs)			0	0	0	0	0	-
SD300 connector (pcs)			0	0	0	0	0	-
Port for SD50 remote sprinter shifter (pcs)			0	0	0	0	0	-
Port for SD300 satellite shifter (pcs)			1	1	1	1	1	1
Battery			CR1632	CR1632	CR1632	CR1632	-	-
Average weight (g)			391 (/pair)	391 (/pair)	391 (/pair)	391 (/pair)	391 (/pair)	391 (/pair)
Note								

Shift/Brake Lever (Hydraulic Disc Brake)

Series			SHIMANO 105	SHIMANO 105	DURA-ACE	DURA-ACE
Model no.			ST-R7170-R	ST-R7170-L	ST-R9180-R	ST-R9180-L
Color	1		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
Remote switch			-	-	-	-
Brake lever	Brake hose (kit)		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
	Brake hose color (kit)	1	Black	Black	Black	Black
		2	-	-	-	-
	Recommended brake caliper		BR-R7170	BR-R7170	BR-R9270	BR-R9270
	Oil		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
	Funnel bleeding		✓	✓	✓	✓
	Free stroke adjust		✓	✓	-	-
	SERVO WAVE		-	-	-	-
	Material		Aluminum	Aluminum	Carbon	Carbon
	Finish		Anodized	Anodized	Painted	Painted
Bracket	Material		GFRP	GFRP	Aluminum	Aluminum
	Finish		-	-	-	-
Electric button	Material		GFRP	GFRP	CFRP	CFRP
	Finish		-	-	-	-
Di2 connectivity wired	Di2 shifting		-	-	✓	✓
Di2 connectivity wireless	Di2 shifting		✓	✓	-	-
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
Port for SD50 remote sprinter shifter (pcs)			0	0	0	0
Port for SD300 satellite shifter (pcs)			0	0	0	0
Battery			CR1632 x 2	CR1632 x 2	-	-
Average weight (g)			423 (/pair)	423 (/pair)	99	99
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	✓	✓	✓	✓	✓	✓
Bracket	Material	CFRP	CFRP	GFRP	GFRP	CFRP	CFRP
	Finish	-	-	-	-	-	-
Electric button	Material	CFRP	CFRP	GFRP	GFRP	CFRP	CFRP
	Finish	Painted	Painted	-	-	-	-
Brake lever	Material	CFRP	CFRP	Aluminum	Aluminum	CFRP	CFRP
	Finish	Painted	Painted	Painted	Painted	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
Model no.		ST-R9160-R	ST-R9160-L	ST-R8060-R	ST-R8060-L
Shifter type		TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon 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	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5
	SLR-EV	✓	✓	✓	✓
Bracket	Material	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-
Electric button	Material	CFRP	CFRP	CFRP	CFRP
	Finish	-	-	-	-
Brake lever	Material	CFRP	CFRP	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized
Master unit		-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓
Di2 connectivity wired	Di2 shifting	✓	✓	✓	✓
Di2 connectivity wireless	Di2 shifting	-	-	-	-
SD50 port (pcs)		1	1	1	1
SD300 port (pcs)		0	0	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)		0	0	0	0
Battery		-	-	-	-
Average weight (g)		127 (/pair)	127 (/pair)	138 (/pair)	138 (/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 switch (pair)	Bar-end switch for TT (pair)	Remote Triathlon shifter Current 2 button design, pair
Position	Extension bar	On road handlebar	Top handlebar	On road handlebar	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
Model no.	SW-R610
Switch type	Remote sprinter shifter (pair)
Position	Anywhere
Compatible electric wire	-
Master unit	-
Firmware update by E-TUBE PROJECT	-
SD50 port (pcs)	0
SD300 port (pcs)	0
SD50 connector (pcs)	0
SD300 connector (pcs)	0
Connector for SD50 remote sprinter shifter (pcs)	2
Connector for SD300 satellite shifter (pcs)	0
Port for SD50 remote sprinter shifter (pcs)	0
Port for SD300 satellite shifter (pcs)	0
Wireless shifting	-
Average weight (g)	5.8 (/pair)
Note	

Rear Derailleur

Series			DURA-ACE	ULTEGRA	SHIMANO 105	ULTEGRA RX
Model no.			RD-R9250	RD-R8150	RD-R7150	RD-RX805-GS
Color	1		Series color	Series color	Series color	Series color
	2		-	-	-	-
Rear speeds			12	12	12	11
RD construction	SHIMANO SHADOW RD		✓	✓	✓	-
	SHIMANO SHADOW RD+		-	-	-	✓
	Double servo		-	-	-	-
	SHADOW ES		-	-	-	-
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
Total capacity			37T	39T	41T	39T
Low sprocket	Max.		34T	34T	36T	34T
	Min.		30T	30T	34T	28T
Top sprocket	Max.		11T	11T	11T	11T
	Min.		11T	11T	11T	11T
Fluoric coated link bushings			4	4	4	4
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		Aluminum	Aluminum	Steel	Aluminum
	Finish		Anodized	Painted	Plated	Anodized
B-axle	Hollow axle		✓	✓	✓	✓
	Material		Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish		Anodized	Painted	-	-
B-axle 2	Hollow axle		✓	✓	✓	✓
	Material		Aluminum	Aluminum	Stainless steel	Aluminum
	Finish		Anodized	Anodized	-	Anodized
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted
P-axle	Material		Aluminum	Steel	Steel	Steel
	Finish		Plated	Passivation	Plated	-
Plate body	Material		CFRP	GFRP	GFRP	Aluminum
	Finish		Painted	Painted	-	Painted
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Painted	Painted	Painted
Inner link	Material		CFRP	GFRP	Steel	GFRP
	Finish		-	-	Painted	-
Outer plate	Material		Carbon	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted
Inner plate	Material		Carbon	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted
Stroke adjusting screw	Material		Aluminum	Steel	Steel	Steel
	Finish		Anodized	Plated	Plated	Plated
Di2 connectivity wired	Di2 shifting		✓	✓	✓	✓
Di2 connectivity wireless	Di2 shifting		✓	✓	✓	-
	Bluetooth® LE	Cycling power	-	-	-	-
	ANT+	Bicycle power	-	-	-	-
	Bluetooth® LE custom (*)	Adjust mode information	✓	✓	✓	-
		Di2 battery level	✓	✓	✓	-
		Gear position	✓	✓	✓	-
		SHIMANO E-BIKE SYSTEMS data items (***)	✓	✓	✓	-
		Compatible with E-TUBE RIDE	✓	✓	✓	-
		Compatible with E-TUBE PROJECT	✓	✓	✓	-
	ANT private (**)	Adjust mode information	✓	✓	✓	-
		Di2 battery level	✓	✓	✓	-
		Gear position	✓	✓	✓	-
		SHIMANO E-BIKE SYSTEMS data items (***)	✓	✓	✓	-
Firmware update by E-TUBE PROJECT			✓	✓	✓	✓
SD50 port (pcs)			0	0	0	1
SD300 port (pcs)			1	1	1	0
SD50 connector (pcs)			0	0	0	0
SD300 connector (pcs)			0	0	0	0
LED for system status			✓	✓	✓	-
Power supply	Built-in battery		-	-	-	-
	Wired		✓	✓	✓	✓
Charging port			✓	✓	✓	-
Charging cable			EW-EC300	EW-EC300	EW-EC300	-
Average weight (g)			215	262	302	280
Note * Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. ** Compatible with ANT+ cycle computer but not freely open profile. *** 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	

Front Derailleur

Series		DURA-ACE	ULTEGRA	SHIMANO 105	DURA-ACE	ULTEGRA
Model no.		FD-R9250	FD-R8150	FD-R7150	FD-R9150	FD-R8050
Color	1	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-
Front speeds		2	2	2	2	2
Rear speeds		12	12	12	11	11
Compatible chain		HG 12-speed	HG 12-speed	HG 12-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
Chainstay angle (deg.)		61-66	61-66	61-66	61-66	61-66
Top gear teeth		46-54T	46-52T	50-52T	50-55T	46-53T
Total capacity		16T	16T	16T	16T	16T, 17T *1
Link bushings		4	4	2	4	2
Front clamp band	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Anodized	Painted
Outer link	Material	Aluminum	Aluminum	GFRP	CFRP	CFRP
	Finish	Anodized	Painted	-	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Titanium	Steel
	Finish	Plated	Painted	Plated	-	Plated
Chain guide	Material	Aluminum	Steel	Steel	Aluminum	Steel
	Finish	Plated	Plated	Chrome plated	Nickel plated	Chrome plated
Master unit		-	-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓
SD50 port (pcs)		0	0	0	1	1
SD300 port (pcs)		1	1	1	0	0
SD50 connector (pcs)		0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0
Average weight (g) (band type: L size, direct type w/ screw)		96	110	142	104	132
Note						*1 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	-	✓ *1
	31.8	-	✓
	34.9	✓	-
Note			*1 w/ Multi Clamp Band

Shift/Brake Lever (Hydraulic Disc Brake)

Series			ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	SHIMANO 105	SHIMANO 105
Model no.			ST-R8020-R	ST-R8020-L	ST-R8025-R	ST-R8025-L	ST-R7120-R	ST-R7120-L
Color	1		Series color	Series color	Black	Black	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		11	-	11	-	12	-
	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-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-R8070	BR-R8070	BR-R8070	BR-R8070	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		Engineering composite	Engineering composite	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)			554 (/pair)	554 (/pair)	568 (/pair)	568 (/pair)	612 (/pair)	612 (/pair)
Note					For small hand.	For small hand.	-	-

Shift/Brake Lever (Hydraulic Disc Brake)

Series			SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	TIAGRA	TIAGRA
Model no.			ST-R7020-R	ST-R7020-L	ST-R7025-R	ST-R7025-L	ST-R4020-R	ST-R4020-L
Color	1		Silky black	Silky black	Silky black	Silky black	Black	Black
	2		-	-	-	-	-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds		-	2	-	2	-	2
	Rear speeds		11	-	11	-	11	-
	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-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-BH59-JK-SSR	SM-BH59-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-R7070, BR-R7170	BR-R7070, BR-R7170	BR-R7070, BR-R7170	BR-R7070, BR-R7170	BR-RS405	BR-RS405
	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)			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
Model no.			ST-4720-R	ST-4720-L	ST-4725-R	ST-4725-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
Shift lever	Front speeds		-	2	-	2
	Rear speeds		10	-	10	-
	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
		Rear derailleur side	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
	Hose joint		Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black
		2	-	-	-	-
	Recommended brake caliper		BR-4770	BR-4770	BR-4770	BR-4770
	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		Engineering composite	Engineering composite	Engineering composite	Engineering composite
	Finish		-	-	-	-
Clamp band	Material		Steel	Steel	Steel	Steel
Average weight (g)			-	-	-	-
Note					For small hand.	For small hand.

Shift/Brake Lever

Series			ULTEGRA	ULTEGRA	SHIMANO 105	SHIMANO 105	TIAGRA	TIAGRA
Model no.			ST-R8000-R	ST-R8000-L	ST-R7000-R	ST-R7000-L	ST-4700-R	ST-4700-L
Color	1		Series color	Series color	Silky black	Silky black	Series color	Series color
	2		-	-	Spark silver	Spark 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
	Rear speeds		11	-	11	-	10	-
	Multi-bearing construction		- *1	- *1	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-RS900	OT-RS900	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		CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Bracket	Material		CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
	Finish		CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
Average weight (g)			220	218	251	249	-	-
Note			*1 Use bush	*1 Use bush	-	-		

Shift/Brake Lever

Series			TIAGRA	SORA	SORA	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS
Model no.			ST-4703-L	ST-R3000-R	ST-R3000-L	ST-R2000-R	ST-R2000-L	ST-RS200-R
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	RAPIDFIRE PLUS
Shift lever	Front speeds		3	-	2	-	2	-
	Rear speeds		-	9	-	8	-	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	✓
	Clamp band (mm)		23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	22.2
	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	Aluminum
	Finish		GFRP	GFRP	GFRP	GFRP	GFRP	Painted
Average weight (g)			-	-	-	-	-	-
Note								

Shift/Brake Lever

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

Shifter

Series			DURA-ACE	SHIMANO	SHIMANO	TIAGRA	TIAGRA	DURA-ACE
Model no.			SL-BSR1	SL-RS700	SL-RS700-I	SL-4700	SL-4703	SL-7700
Color	1		Series color	Black	Black	Series color	Series color	Series color
	2		-	-	-	-	-	-
Shifter type			Bar end shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Down tube shifter
Front speeds			2	2	2	2	3	2/3
Rear speeds			11	11	11	10	-	9
Compatible rear derailleur type			ROAD 11-speed	ROAD 11-speed	ROAD 11-speed	RD-4700	RD-4700	ROAD 9-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	4	4	-	-
Release function	MULTI RELEASE		-	✓ *1	✓ * (right) / - (left)	-	-	-
	INSTANT RELEASE		-	✓	✓	✓ (right) / - (left)	-	-
	2-WAY RELEASE		-	✓	✓	✓	✓	-
OPTICAL GEAR DISPLAY	With		-	-	-	✓	✓	-
	With (removable)		-	-	-	-	-	-
	Without		✓	✓	✓	-	-	✓
Multi-bearing construction			-	2 (right) / 2 (left)	2 (right) / 2 (left)	2 (right) / 2 (left)	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	Painted	Painted	Clear coated
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)	-	-	-
Note				*1 (right only) Pull: single Push: double	* Pull: single Push: double			

Shifter

Series			SORA	SORA	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO
Model no.			SL-R3000-R	SL-R3000-L	SL-R2000-R	SL-R2000-L	SL-R400
Color	1		Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-
Shifter type			RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Down tube shifter
Front speeds			-	2	-	2	2/3
Rear speeds			9	-	8	-	8
Compatible rear derailleur type			RD-R3000	FD-R3000	ROAD 8-speed	-	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			-	-	-	-	-
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	Aluminum	Steel+Resin	Steel+Resin	Aluminum
	Finish		Painted	Painted	-	-	Painted
Release lever body	Material		Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	-
	Finish		-	-	-	-	-
Recommended shift lever outer casing			OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)			-	-	-	-	-
Note							

Brake Lever (Hydraulic Disc Brake, Drop Handlebar Type)

Series		SHIMANO
Model no.		BL-RS717-LS
Brake type		Hydraulic disc brake
Lever size (finger)		-
Color	1	Black
	2	-
Bracket cover color	1	Standard
	2	-
Brake hose (kit)		SM-BH90-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-R9270, BR-R8170, BR-R7170
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)		188
Note		

Brake Lever (Hydraulic Disc Brake, Flat Handlebar Type)

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 (Drop Handlebar Type)

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 Lever (Flat Handlebar Type)

Series		TIAGRA	SORA	SHIMANO CLARIS	SHIMANO
Model no.		BL-4700	BL-R3000	BL-R2000	BL-R780
Color	1	Series color	Series color	Series color	Silver
	2	-	-	-	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
Internal bumper stop		✓	✓	✓	✓
Lever size (finger)		2.5	2.5	2.5	2.5
Brake cable type		T-type	T-type	T-type	T-type
Power adjuster		-	-	-	-
SERVO WAVE		-	-	-	-
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
Average weight (g)		-	-	-	170 (/pair)
Note					

Brake (Hydraulic Disc Brake)

Series		DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	SHIMANO 105	TIAGRA
Model no.		BR-R9270	BR-R8170	BR-R8070-F	BR-R8070-R	BR-R7170	BR-4770-F
Color	1	Series color	Series color	Series color	Series color	Black	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-J-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	-	-	-	-	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	✓	✓	✓	✓	-
Pad	Standard 1	K05Ti-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)	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)	K04S-MX Metal (w/o fin)
	Option 1	K04Ti-MX Metal (w/ o fin)	L04C-MF Metal (w/ fin)	K04S-MX Metal (w/o fin)	K04S-MX Metal (w/o fin)	L04C-MF Metal (w/ fin)	L03A-RF Resin (w/ fin)
	Option 2	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-R8170	ST-R8070, ST-R8020	ST-R8070, ST-R8020	ST-R7170	ST-4720, ST-4725
Recommended disc brake rotor	w/ metal and resin pad	RT-MT900, RT-CL900	RT-MT800, RT-CL800	SM-RT800	SM-RT800	RT-CL700, SM-RT64	SM-RT64
	w/ resin pad	-	-	-	-	-	-
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	Anodized	Painted	Anodized	Anodized	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	Screw fix pin	Screw fix pin+Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		97	123	141	124	123	-
Note							

Brake (Hydraulic Disc Brake)

Series		TIAGRA	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-4770-R	BR-RS785	BR-RS405-F	BR-RS405-R
Color	1	Series color	Series color (ULTEGRA)	Dark gray	Dark gray
	2	-	-	-	-
	3	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH59-JK-SS, SM-BH59-J-SS	SM-BH59-JK-SS, SM-BH59-J-SS
Hose joint		Straight	Straight	Straight	Straight
Brake hose color (kit)	1	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)	J05A-RF Resin (w/ fin)	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)
	Standard 2	K04S-MX Metal (w/o fin)	J04C-MF Metal (w/ fin)	-	-
	Option 1	L03A-RF Resin (w/ fin)	G03A-RX Resin (w/o fin)	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-4720, ST-4725	-	ST-U6030, ST-R4020, BL-U6030, BL-RS600	ST-U6030, ST-R4020, BL-U6030, BL-RS600
Recommended disc brake rotor	w/ metal and resin pad	SM-RT64	SM-RT99	RT-CL700	RT-CL700
	w/ resin pad	-	-	-	-
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	✓	✓
Mount type		Flat mount	Post mount	Flat mount	Flat mount
Piston		2	2	2	2
Piston material		Resin	Ceramic	Resin	Resin
Caliper	MONO-BODY	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Steel	Steel	Steel
	Tool size	4 mm	5 mm	4 mm	4 mm
	Anti loosen method	Screw fix pin	Snap ring	Screw fix pin+Snap ring	Screw fix pin
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		-	271 (/pair)	-	-
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	BP-G05A-RX Resin (w/o fin)	BP-K05S-RX Resin (w/o fin)	BP-K05S-RX Resin (w/o fin)
	Standard 2	-	-	-
	Option 1	-	BP-L05A-RF Resin (w/ fin)	BP-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), RT-CL700 (140 mm)	SM-RT54/RT56 (160 mm), RT-CL700 (140 mm/160 mm)	SM-RT54/RT56 (160 mm), RT-CL700 (140 mm/160 mm)
Mount type		Post mount	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	ULTEGRA	ULTEGRA	ULTEGRA
Model no.			BR-R9200	BR-R9210-F	BR-R9210-RS	BR-R8100	BR-R8110-F	BR-R8110-RS
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		R50T5	R55C4	R55C4	R55C3	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	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Material		Aluminum	-	-	Aluminum	-	-
	Finish		Anodized	-	-	Anodized	-	-
Quick release lever	Material		Resin	Resin	Resin	Resin	Resin	Resin
	Finish		Painted	Painted	Painted	-	-	-
Titanium cable fixing screw			✓	✓	✓	-	-	-
Titanium pivot bolt			✓	✓ (fixing screw)	✓ (fixing screw)	-	-	-
Average weight (g)			327 (/pair)	156 (/pc)	154 (/pc)	182 (Front) 180 (Rear)	180 (/pc)	178 (/pc)
Note								

Brake (Caliper Brake)

Series			SHIMANO	ULTEGRA	ULTEGRA	ULTEGRA	SHIMANO 105	TIAGRA
Model no.			BR-RS811-R	BR-6800	BR-6810-F	BR-6810-RS	BR-R7000	BR-4700
Color	1		Black	Series color	Series color	Series color	Silky black	Series color
	2		-	-	-	-	Spark silver	-
Type			Direct mount type	SLR-EV Dual Pivot	Direct mount type	Direct mount type	SLR-EV Dual Pivot	NEW SUPER SLR 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	R55C4 carbon, R55C4-A carbon, R55CT4	R55C4 carbon, R55C4-A carbon, R55CT4	R55C4 carbon, R55C4-A carbon, R55CT4	R50T4
Compatibility			SLR-EV	SLR-EV	SLR-EV	SLR-EV	SLR-EV	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	25C	28C	28C	28C	28C
Rim width (mm)			20.8-28	19-28	19-28	19-28	20.8-28	19-26
Cartridge shoe holder	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	-
	Finish		Painted	Painted	Painted	Painted	Painted	-
C-arm	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Material		-	Aluminum	-	-	Aluminum	Aluminum
	Finish		-	Anodized	-	-	Anodized	Anodized
Quick release lever	Material		-	Aluminum	Aluminum	Aluminum	Resin	Resin
	Finish		-	Painted	Painted	Painted	-	Painted
Titanium cable fixing screw			-	-	-	-	-	-
Titanium pivot bolt			-	-	-	-	-	-
Average weight (g)			-	335 (/pair)	173 (/pc)	168 (/pc)	379 (/pair)	-
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			SORA	SHIMANO CLARIS	SHIMANO	SHIMANO
Model no.			BR-R3000	BR-R2000	BR-R561	BR-R451
Color	1		Series color	Series color	Silver	Black
	2		-	-	Black	Silver
Type			NEW SUPER SLR Dual pivot	NEW SUPER SLR Dual pivot	NEW SUPER SLR Dual pivot	SUPER SLR Dual Pivot
Reach (mm)			51	51	49	57
Brake shoe	Standard		R55C4	R55C4	R55C4	R55C4
	Optional choice		R50T4	R50T4	R55C for ceramic rim, R55C3 for carbon rim	-
Compatibility			NEW SUPER SLR	NEW SUPER SLR	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	28C	28C	32C
Rim width (mm)			19-28	19-26	19-26	19-26
Cartridge shoe holder	Material		-	-	Aluminum	-
	Finish		-	-	Painted	-
C-arm	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Anodized	Painted
Y-arm	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Anodized	Painted
Gate	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Anodized	Anodized	Anodized	Painted
Quick release lever	Material		Resin	Resin	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 Cable

Series		SHIMANO	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			ULTEGRA	ULTEGRA	SHIMANO 105	SHIMANO 105	SHIMANO 105	TIAGRA
Model no.			RD-R8000-SS	RD-R8000-GS	RD-R7100	RD-R7000-SS	RD-R7000-GS	RD-R4000
Color	1		Series color	Series color	Series color	Silky black	Silky black	Black
	2		-	-	-	Spark silver	Spark silver	-
Rear speeds			11	11	12	11	11	11
Compatible chain			LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-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		-	-	-	-	-	-
	SHADOW ES		-	-	-	-	-	-
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	39T	41T	35T	39T	41T
Low sprocket	Max.		30T	34T	36T	30T	34T	36T
	Min.		25T	28T	34T	25T	28T	36T
Top sprocket	Max.		14T	12T	11T	14T	12T	11T
	Min.		11T	11T	11T	11T	11T	11T
Fluoric coated link bushings			4	4	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		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
B-axle	Hollow axle		✓	✓	-	-	-	-
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		-	-	-	-	-	-
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		Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	-
Plate body	Material		GFRP	GFRP	GFRP	GFRP	GFRP	PA+GF
	Finish		Painted	Painted	Painted	Painted	Painted	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	PA+GF
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		GFRP	GFRP	GFRP	GFRP	GFRP	PA+GF
	Finish		-	-	-	-	-	-
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	Stainless steel	Steel	Steel	Steel	Stainless steel
	Finish		Black coated	Black coated	Plated	Plated	Plated	-
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)			200	210	249	225	232	-
Note								

Rear Derailleur

Series			TIAGRA	TIAGRA	SORA	SORA	SHIMANO CLARIS	SHIMANO CLARIS
Model no.			RD-4700-SS	RD-4700-GS	RD-R3000-SS	RD-R3000-GS	RD-R2000-SS	RD-R2000-GS
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			10	10	9	9	8	8
Compatible chain			HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 8/7/6-speed	HG 8/7/6-speed
RD construction	SHIMANO SHADOW RD		-	-	-	-	-	-
	SHIMANO SHADOW RD+		-	-	-	-	-	-
	Double servo		✓	✓	✓	✓	✓	✓
	SHADOW ES		-	-	-	-	-	-
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	16T	20T
Total capacity			33T	41T	37T	43T	37T	43T
Low sprocket	Max.		28T	32T (front triple), 34T (front double)	32T	34T	32T	34T
	Min.		25T	28T (front double), 25T (front triple)	25T	28T	25T	28T
Top sprocket	Max.		14T	12T	14T	14T	13T	13T
	Min.		11T	11T	11T	11T	11T	11T
Fluoric coated link bushings			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	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	Steel	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								

Front Derailleur

Series			DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	SHIMANO 105	SHIMANO 105
Model no.			FD-R9100-F	FD-R9100-B	FD-R8000-F	FD-R8000-B	FD-R7100-F	FD-R7100-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	12	12
Compatible chain			LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG 12-speed	HG 12-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	44.5	44.5
Chainstay angle (deg.)			61-66	61-66	61-66	61-66	61-66	61-66
Top gear teeth			50-55T	50-55T	46-53T	46-53T	50-52T	50-52T
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	8	8	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		CFRF	CFRF	GFRP	GFRP	GFRP	GFRP
	Finish		Plated/Painted	Plated/Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish		Anodized	Anodized	Painted	Painted	Plated	Plated
Chain guide	Material		Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish		Nickel plated	Nickel 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	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Black	Black	Black	Black	Black	Black
Average weight (g) (band type: L size, direct type w/ screw)			70	85	92	106	96	111
Note							-	-

Front Derailleur

Series			SHIMANO 105	SHIMANO 105	TIAGRA	TIAGRA	TIAGRA	TIAGRA
Model no.			FD-R7000-F	FD-R7000-B	FD-R4000-F	FD-R4000-B	FD-4700-F	FD-4700-B
Color	1		Silky black	Silky black	Black	Black	Series color	Series color
	2		Spark silver	Spark silver	-	-	-	-
Front speeds			2	2	2	2	2	2
Rear speeds			11	11	11	11	10	10
Compatible chain			LINKGLIDE, HG 11-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		✓	✓	✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-	✓ *1
		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			46-53T	46-53T	50-52T	50-52T	46-52T	46-52T
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	-	-
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		GFRP	GFRP	GFRP	GFRP	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Steel	Steel	Steel	Steel	Aluminum	Aluminum
	Finish		Plated	Plated	Plated	Plated	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		Black	Black	Black	Black	-	-
Average weight (g) (band type: L size, direct type w/ screw)			96	111	-	-	-	-
Note			-	-				*1 28.6 mm Clamp band: 31.8 mm w/ Adapter

Front Derailleur

Series			TIAGRA	TIAGRA	SORA	SORA	SHIMANO CLARIS	SHIMANO CLARIS
Model no.			FD-4703-F	FD-4703-B	FD-R3000-F	FD-R3000-B	FD-R2000-F	FD-R2000-B
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
Front speeds			3	3	2	2	2	2
Rear speeds			10	10	9	9	8	8
Compatible chain			HG-X 10-speed	HG-X 10-speed	-	-	HG 8/7/6-speed	HG 8/7/6-speed
Action	TOP SWING		-	-	-	-	-	-
	Down swing		✓	✓	✓	✓	✓	✓
Mount	Clamp band (mm)	28.6	-	✓ *1	-	✓ (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)			45	45	43.5	43.5	43.5	43.5
Chainstay angle (deg.)			63-66	63-66	61-66	61-66	61-66	61-66
Top gear teeth			50T	50T	46-52T	46-52T	46-52T	46-52T
Total capacity			20T	20T	16T	16T	16T	16T
Applicable top-mid tooth difference			11T	11T	-	-	-	-
Angled clamp band design			-	-	✓	✓	✓	✓
Multi-bearing construction			-	-	-	-	-	-
Link bushings			-	-	-	-	-	-
Front clamp band	Material		Aluminum	Aluminum	-	Aluminum	-	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		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material		Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
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)			-	-	-	-	-	-
Note				*1 28.6 mm Clamp band: 31.8 mm w/ Adapter				

Front Derailleur

Series			SHIMANO CLARIS	SHIMANO CLARIS
Model no.			FD-R2030-F	FD-R2030-B
Color	1		Series color	Series color
	2		-	-
Front speeds			3	3
Rear speeds			8	8
Compatible chain			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)
		31.8	-	✓ (w/ M size adapter)
		34.9	-	✓
	Brazed-on		✓	
Cable adjust			-	-
Cable route type	Top-pull exclusive		-	-
Chain line (mm)			45	45
Chainstay angle (deg.)			63-66	63-66
Top gear teeth			50T	50T
Total capacity			20T	20T
Applicable top-mid tooth difference			11T	11T
Angled clamp band design			✓	✓
Multi-bearing construction			-	-
Link bushings			-	-
Front clamp band	Material		-	Steel
	Finish		-	Painted
Rear clamp band, base bracket	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Clamp screw	Material		-	-
	Finish		-	-
Outer link	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Inner link	Material		Steel	Steel
	Finish		Painted	Painted
Chain guide	Material		Steel	Steel
	Finish		Chrome plated	Chrome plated
Cable fixing screw	Material		Steel	Steel
	Finish		Nickel plated	Nickel plated
Stroke adjusting screw	Material		Steel	Steel
	Finish		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	ULTEGRA
Model no.		FC-R9200	FC-R8100	FC-R7100	FC-RS520	FC-09	FC-08
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	44.5
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	46-36T, 50-34T, 52-36T
Q-factor (mm)		148	148	148	150	148	148
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	SM-BBR60
	Press-Fit	SM-BB92-41B	SM-BB72-41B	SM-BB72-41B	BB-RS500-PB	SM-BB92-41B	SM-BB72-41B
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
	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)	702 (46-36T) 700 (50-34T) 711 (52-36T)
Note							*46T chairing color is black. Fixed with dedicated nuts.

Crankset

Series		SHIMANO 105	SHIMANO	DURA-ACE	TIAGRA	TIAGRA	TIAGRA
Model no.		FC-R7000	FC-RS510	FC-7710	FC-R4000	FC-4700	FC-4703
Color	1	Silky black	Black	Series color	Black	Series color	Series color
	2	Spark silver	-	-	-	-	-
Rear speeds		11	11	Single	11	10	10
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	1/2 x 1/8, 1/2 x 3/32	LINKGLIDE, HG 11-speed	HG-X 10-speed	HG-X 10-speed
Chain line (mm)		43.5	43.5	42.5	43.5	43.5	45
P.C.D. (mm)		110	110	144	110	110	110/74
Spider/gear arms		4	4	5	4	4	4
Chainring combination		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)	50-34T, 52-36T	48-34T, 50-34T, 52-36T	50-39-30T
Q-factor (mm)		146	150	136.3	150	150	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)	SM-BBR60	BB-RS501	BB-7710, BB-7700	BB-RS501	BB-RS501	BB-RS501
	Press-Fit	SM-BB72-41B	BB-RS500-PB	-	BB-RS500-PB	BB-RS500-PB	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+GFRP	Aluminum+Resin	Aluminum	Aluminum+Resin	Aluminum/Resin (48-34T), Aluminum/GFRP (50-34T, 52-36T)	Aluminum+GFRP
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized+Painted (48-34T), Anodized (50-34T, 52-36T)	Anodized
Middle ring	Material	-	-	-	-	-	Aluminum
	Finish	-	-	-	-	-	Anodized
Inner ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Plated
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
	Finish	-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		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							

Crankset

Series		SHIMANO	SORA	SORA	SHIMANO	SHIMANO CLARIS	SHIMANO CLARIS
Model no.		FC-RS400	FC-R3000	FC-R3000-CG	FC-R345	FC-R2000	FC-R2000-CG
Color	1	Black	Series color	Series color	Silver	Series color	Series color
	2	-	-	-	Black	-	-
Rear speeds		10	9	9	9	8	8
Compatible chain		HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 8/7/6-speed	HG 8/7/6-speed
Chain line (mm)		43.5	43.5	43.5	43.5	43.5	43.5
P.C.D. (mm)		110	110	110	110	110	110
Spider/gear arms		5	4	5	5	4	4
Chainring combination		50-34T	50-34T	50-34T	50-34T	50-34T	50-34T
Q-factor (mm)		150.3	150	150	152.2	150	150
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-ES300	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)		-	-	-	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
	Finish	-	Plated	Plated	-	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum+Resin	Aluminum+Resin	Aluminum	Steel+Resin	Steel+Resin
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Anodized	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
	Finish	-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		-	-	-	-	-	-
Note				w/ Chain guard spec.			

Crankset

Series		SHIMANO
Model no.		FC-RS200
Color	1	Black
	2	-
Rear speeds		8
Compatible chain		HG 8/7/6-speed
Chain line (mm)		43.5
P.C.D. (mm)		110
Spider/gear arms		5
Chainring combination		46-34T, 50-34T
Q-factor (mm)		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-UN300
	Press-Fit	-
Axle length of BB-UN/ES (mm)		MM110
Threaded bottom bracket shell width (mm)	68	✓
	70	✓
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	-
	Finish	-
Inner ring	Material	Steel
	Finish	Painted
Outer/middle ring fixing bolt	Material	Stainless steel
	Finish	-
Inner ring fixing screw	Material	-
	Finish	-
Crank fixing screw included		✓
Average weight (g) (170 mm, w/o bottom bracket)		-
Note		

Crankset (Power Meter)

Series			DURA-ACE	DURA-ACE	ULTEGRA
Model no.			FC-R9200-P	FC-R9200-PX	FC-R8100-P
Chainring combination			50-34T, 52-36T, 54-40T, w/o chainrings	50-34T, 52-36T, 54-40T	50-34T, 52-36T, w/o chainrings
Crank arm length (mm)	160		✓	-	✓ *1
	165		✓	✓	✓
	167.5		✓ *1	-	-
	170		✓	✓	✓
	172.5		✓	✓	✓
	175		✓	✓	✓
	177.5		✓ *1	-	-
	180		-	-	-
Force measurement	Right side		✓	✓	✓
	Left side		✓	✓	✓
	Number of strain sensor		24	24	24
Cadence measurement	Magnet		✓	✓	✓
	Accelerometer		-	-	-
Accuracy (%)			±1.5	±1.5	±2
LED for system status			✓	✓	✓
Number of control button			1	1	1
Zero offset	By control button		✓	✓	✓
	By device		✓	✓	✓
Active temperature compensation			✓	✓	✓
Battery	Type	Lithium ion	✓	✓	✓
		Coin cell	-	-	-
	Life		226 h	226 h	226 h
	Charging port		✓	✓	✓
	Charging cable		EW-EC300	EW-EC300	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 (*)	Adjust mode information	-	-	-
		Di2 battery level	-	-	-
		Gear position	-	-	-
		SHIMANO E-BIKE SYSTEMS data items (***)	-	-	-
		Compatible with E-TUBE RIDE	✓	✓	✓
		Compatible with E-TUBE PROJECT	✓	✓	✓
	ANT private (**)	Adjust mode information	-	-	-
		Di2 battery level	-	-	-
		Gear position	-	-	-
		SHIMANO E-BIKE SYSTEMS data items (***)	-	-	-
SD50 port (pcs)			0	0	0
SD300 port (pcs)			0	0	0
SD50 connector (pcs)			0	0	0
SD300 connector (pcs)			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)	758 (50-34T) 769 (52-36T)
Note * Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. ** Compatible with ANT+ cycle computer but not freely open profile. *** Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.			Crankset specifications not listed here are the same as FC-R9200 *1 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 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 *1 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	SHIMANO 105
Model no.		CS-R9200-12	CS-R8101-12	CS-R7101-12
Type		HYPERGLIDE+	HYPERGLIDE+	HG
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	11-34T
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	11-12-13-14-15-17-19-21-24-27-30-34T
	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	-
	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	1
	Finish	Anodized	-	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	Steel
	Finish	Anodized	Anodized	Nickel plated
Average weight (g)		223 (11-30T) 253 (11-34T)	291 (11-30T) 345 (11-34T)	361
Note				

Series		SHIMANO	ULTEGRA	SHIMANO
Model no.		CS-HG710-12	CS-R8000	CS-HG800-11
Type		HG	HG-EV	HG-EV
Rear speeds		12	11	11
Compatible chain		HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Combination name (Group name)		11-36T	11-25T, 11-28T, 11-30T, 11-32T, 12-25T, 14-28T	11-34T
Combination * Titanium gear	1	11-12-13-14-15-17-19-21-24-28-32-36T	11-12-13-14-15-16-17-19-21-23-25T	11-13-15-17-19-21-23-25-27-30-34T
	2	-	11-12-13-14-15-17-19-21-23-25-28T	-
	3	-	11-12-13-14-15-17-19-21-24-27-30T	-
	4	-	12-13-14-15-16-17-18-19-21-23-25T	-
	5	-	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	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	1	1	2
	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	11	11
	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Aluminum	Aluminum
	Finish	Nickel plated	Anodized	Anodized
Average weight (g)		391	232 (11-25T) 251 (11-28T) 269 (11-30T) 243 (12-25T) 300 (14-28T) 292 (11-32T)	335
Note				

Cassette

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				

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	SHIMANO 105	SHIMANO 105	SHIMANO	SHIMANO
Model no.		HB-7710	HB-7600	HB-R7000	HB-R7070	HB-RS770	HB-RS400
Color	1 Hub shell	Silver	Silver	Silky black	Silky black	Black/Silver	Black
	1 Quick release	Silver	Silver	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
O.L.D. (mm)		100 (front), 120 (rear)	100 (front), 120 (rear)	100	100	100	100
Spoke hole	24H	-	-	-	-	-	-
	28H	✓	✓	-	-	✓	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
Axle fixing method		Nut	Nut	Quick release	12 mm E-THRU	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)		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	59.6	59.6	71.6
Offset (mm)		0 (front), 2.75 (single thread/rear), 0 (double thread/ rear)	0 (front), 5.25 (rear)	0	6	6	0
P.C.D. left / right (mm)		38 (Front), 44 (Rear)	67	38	44	44	38
Flange diameter (mm)		46 (Front), 52 (Rear)	75	48.4	52.8	52.8	48.4
Seal		Dust cap	Dust cap	Contact	Contact	Labyrinth+Contact	Contact
Internal grease sleeve		-	-	✓	✓	-	✓
Digital adjustment system		-	-	-	-	-	-
Bearing	Stainless ball	✓	✓	-	-	-	-
	Cup	Polished	CBN+Polish	Polished	Polished	CBN	Polished
	Cone	CBN+Polish	CBN+Polish	CBN+Polish	CBN+Polish	CBN	CBN
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Aluminum	Aluminum	Steel
	Finish	Plating	Plating	-	Anodized	Anodized	-
Quick release lever	Material	-	-	Aluminum	-	-	Aluminum
	Finish	-	-	Anodized	-	-	Painted
Quick release housing	Material	-	-	Aluminum	-	-	Aluminum
	Finish	-	-	Anodized	-	-	Painted
Quick release nut	Material	-	-	Resin	-	-	Resin
	Finish	-	-	Black	-	-	Black
Radial lacing		-	-	✓	-	-	✓
Average weight (g) (w/o axle and lock ring)		298 (rear w/ lock ring), 203 (front)	313 (rear LF w/ lock ring) 241 (front LF)	155	165	125	-
Note		For Track * Dishing Distance R (Single Thread): 2.75 mm / (Double Thread): 0		-	-	-	

Front Hub (Rim/Disc Brake)

Series		SHIMANO	SHIMANO
Model no.		HB-RS470	HB-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
O.L.D. (mm)		100	100
Spoke hole	24H	-	-
	28H	✓	✓
	32H	✓	✓
	36H	-	✓
Axle fixing method		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
Offset (mm)		6.3	0
P.C.D. left / right (mm)		44	38
Flange diameter (mm)		52.8	48.4
Seal		Contact	Contact
Internal grease sleeve		✓	-
Digital adjustment system		-	-
Bearing	Stainless ball	-	-
	Cup	Polished	-
	Cone	CBN+Polish	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Axle	Material	Aluminum	Steel
	Finish	-	-
Quick release lever	Material	-	Aluminum
	Finish	-	Painted
Quick release housing	Material	-	Steel
	Finish	-	Painted
Quick release nut	Material	-	Resin
	Finish	-	Black
Radial lacing		✓	✓
Average weight (g) (w/o axle and lock ring)			-
Note		-	

FREEHUB (Rim/Disc Brake)

Series		SHIMANO 105	SHIMANO 105	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-R7000	FH-R7070	FH-RS770	FH-RS400	FH-RS470	FH-RS300
Color	1 Hub shell	Silky black	Silky black	Black/Silver	Black	Black	Silver
	1 Quick release	Black	Black	-	Black	-	Silver
	2 Hub shell	Spark silver	-	-	Silver	-	Black
	2 Quick release	Black	-	-	Black	-	Black
Brake type		Rim brake	CENTER LOCK disc brake	CENTER LOCK disc brake	Rim brake	CENTER LOCK disc brake	Rim brake
O.L.D. (mm)		130	142	142	130	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	12 mm E-THRU	12 mm E-THRU	Quick release	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	55.7	55.7	56.9	55.7	57.9
Offset (mm)		9.75	7.45	7.5	9.75	7.45	8.4
P.C.D. left / right (mm)		44/45	44/45	44/45	44/45	44/45	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	53.8
Spline type	MICRO SPLINE (12-speed)	-	-	-	-	-	-
	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	Polished	Polished	CBN	Polished	Polished	-
	Cone	CBN	CBN	CBN	CBN	CBN	-
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Aluminum	Steel	Steel	Steel
	Finish	-	-	Anodized	-	-	-
Quick release lever	Material	Aluminum	-	-	Aluminum	-	Aluminum
	Finish	Anodized	-	-	Painted	-	Painted
	Color	Black	-	-	Black	-	Black
Quick release housing	Material	Aluminum	-	-	Aluminum	-	Steel
	Finish	Anodized	-	-	Painted	-	Painted
Quick release nut	Material	Resin	-	-	Resin	-	Resin
	Finish	Black	-	-	Black	-	Black
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Radial lacing		-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		368	361	302	-	-	-
Note		*1 Can be used for 10-speed with an additional spacer	*1 Can be used for 10-speed with an additional spacer.	*1 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	*1 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-R9370-C99-TL-F	WH-R9370-D-TL-R	WH-R9370-C60-TL-F	WH-R9370-C60-TL-R	WH-R9370-C50-TL-F	WH-R9370-C50-TL-R
Model name		WH-R9370-C99-TL	WH-R9370-D-TL	WH-R9370-C60-TL	WH-R9370-C60-TL	WH-R9370-C50-TL	WH-R9370-C50-TL
Specification		F12-700C	R12-700C	F12-700C	R12-700C	F12-700C	R12-700C
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
O.L.D. (mm)		100	142	100	142	100	142
Wheel size		622 x 23TC (700C)	622 x 23TC (700C)	622 x 23TC (700C)	622 x 23TC (700C)	622 x 23TC (700C)	622 x 23TC (700C)
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	25-622 - 32-622	28-622 - 32-622	28-622 - 45-622	28-622 - 45-622	28-622 - 45-622	28-622 - 45-622
Rim	Height (mm)	99	-	60	60	50	50
	Internal width (mm)	23	23	23	23	23	23
	External width (mm)	35.2	-	31.5	32.3	31	32
	Rim joint	-	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓	-	✓	✓	✓	✓
Spokes	Number	16	-	21	24	21	21
	Straight pull	✓	-	✓	✓	✓	✓
	Bladed	✓	-	✓	✓	✓	✓
	Butted	-	-	-	-	-	-
	Diameter (mm)	-	-	-	-	-	-
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 8	-	-	-	-	-	-
	100 x 12	✓	-	✓	-	✓	-
	142 x 12	-	✓	-	✓	-	✓
Spline type	MICRO SPLINE (12-speed)	-	-	-	-	-	-
	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	Polished	Polished	Polished	Polished	Polished	Polished
	Cone	CBN+Polish	CBN+Polish	CBN+Polish	CBN+Polish	CBN+Polish	CBN+Polish
	Cartridge	-	-	-	-	-	-
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	Carbon	-	Carbon	Carbon	Carbon	Carbon
	Finish	-	-	-	-	-	-
Nipple	Material	Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	-	Anodized	Anodized	Anodized	Anodized
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	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	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
	AS	-	-	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	-	-	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		788	987	632	759	593	709
Note		-	-				

Wheel (Disc Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.		WH-R9370-C36-TL-F	WH-R9370-C36-TL-R	WH-R9270-C60-HR-TU-F	WH-R9270-C60-HR-TU-R	WH-R9270-C60-HR-TL-F	WH-R9270-C60-HR-TL-R
Model name		WH-R9370-C36-TL	WH-R9370-C36-TL	WH-R9270-C60-HR-TU	WH-R9270-C60-HR-TU	WH-R9270-C60-HR-TL	WH-R9270-C60-HR-TL
Specification		F12-700C	R12-700C	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
O.L.D. (mm)		100	142	100	142	100	142
Wheel size		622 x 23TC (700C)	622 x 23TC (700C)	700C	700C	622 x 21C (700C)	622 x 21C (700C)
Tire	Type	Tubeless	Tubeless	Tubular	Tubular	Tubeless	Tubeless
	Recommended size	28-622 - 45-622	28-622 - 45-622	25-28" - 32-28"	25-28" - 32-28"	25-622 - 32-622	25-622 - 32-622
Rim	Height (mm)	36	36	60	60	60	60
	Internal width (mm)	23	23	-	-	21	21
	External width (mm)	29.4	29.4	28	28	28	28
	Rim joint	-	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓	✓	-	-	✓	✓
Spokes	Number	18	21	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
Axle fixing method		E-THRU	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 (12-speed)	-	-	-	-	-	-
	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	Polished	Polished	CBN	CBN	CBN	CBN
	Cone	CBN+Polish	CBN+Polish	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
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	Carbon	Carbon	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	Series color	Series color	Series color	Series color
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Series color	Series color	Series color	Series color
FREEHUB body	Material	-	Aluminum	-	Aluminum	-	Aluminum
	Finish	-	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	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	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)		523	649	667	770	751	858
Note							

Wheel (Disc Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.		WH-R9270-C50-TU-F	WH-R9270-C50-TU-R	WH-R9270-C50-TL-F	WH-R9270-C50-TL-R	WH-R9270-C36-TU-F	WH-R9270-C36-TU-R
Model name		WH-R9270-C50-TU	WH-R9270-C50-TU	WH-R9270-C50-TL	WH-R9270-C50-TL	WH-R9270-C36-TU	WH-R9270-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	-	-	-	-	-	-
	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
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)	50	50	50	50	36	36
	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)	2.0-1.5-2.0	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 (12-speed)	-	-	-	-	-	-
	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
	Cartridge	-	-	-	-	-	-
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	-	-	-	-	-	-
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)		610	723	674	787	522	632
Note							

Wheel (Disc Brake)

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		WH-R9270-C36-TL-F	WH-R9270-C36-TL-R	WH-R8170-C60-TL-F	WH-R8170-C60-TL-R	WH-R8170-C50-TL-F	WH-R8170-C50-TL-R
Model name		WH-R9270-C36-TL	WH-R9270-C36-TL	WH-R8170-C60-TL	WH-R8170-C60-TL	WH-R8170-C50-TL	WH-R8170-C50-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
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)	36	36	60	60	50	50
	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)	2.0-1.5-2.0	2.0-1.5-2.0	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 (12-speed)	-	-	-	-	-	-
	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	-	Pawl ratchet	-	Pawl ratchet
Bearing	Stainless ball	✓	✓	-	-	-	-
	Cup	CBN	CBN	Polished	Polished	Polished	Polished
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
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	-	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	-	-	-	-	-	-
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)		620	730	738	911	698	872
Note							

Wheel (Disc Brake)

Series		ULTEGRA	ULTEGRA	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-R8170-C36-TL-F	WH-R8170-C36-TL-R	WH-RS710-C32-TL-F	WH-RS710-C32-TL-R	WH-RS710-C46-TL-F	WH-RS710-C46-TL-R
Model name		WH-R8170-C36-TL	WH-R8170-C36-TL	WH-RS710	WH-RS710	WH-RS710	WH-RS710
Specification		F	R	C32-TL-F	C32-TL-R	C46-TL-F	C46-TL-R
Color	1 Hub shell	Series color	Series color	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
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)	36	36	32	32	46	46
	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 (12-speed)	-	-	-	-	-	-
	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	Polished	Polished	Polished	Polished	Polished	Polished
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
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	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Series color	Series color	Black	Black	Black	Black
FREEHUB body	Material	-	Steel	-	Steel	-	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	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	-	-	-	-	-	-
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)		657	831	665	839	719	893
Note							

Wheel (Disc Brake)

Series		DURA-ACE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-R9170-C60-TU-F12	WH-RS370-TL-F12	WH-RS370-TL-R12	WH-RS171-CL-F12-700C	WH-RS171-CL-R12-700C	WH-RX010-CL-F
Model name		WH-R9170-C60-TU	WH-RS370-TL	WH-RS370-TL	WH-RS171-CL	WH-RS171-CL	WH-RX010-CL
Specification		F12	F12	R12	F12-700C	F12-700C	F
Color	1 Hub shell	Series color	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	-	Black
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Front	Rear	Front	Rear	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
O.L.D. (mm)		100	100	142	100	142	100
Wheel size		700C	622 x 19C (700C)	622 x 19C (700C)	622 x 19C (700C)	622 x 19C (700C)	622 x 17C (700C)
Tire	Type	Tubular	Tubeless	Tubeless	Clincher	Clincher	Clincher
	Recommended size	23-28" - 28-28"	28-622 - 45-622	28-622 - 45-622	28-622 - 42-622	28-622 - 42-622	25-622 - 38-622
Rim	Height (mm)	60	19	19	19	19	24
	Internal width (mm)	-	19	19	19	19	-
	External width (mm)	28	23.4	23.4	24.6	24.6	23
	Rim joint	-	Welded	Welded	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	-	✓	✓	✓	✓	✓
Spokes	Number	24	24	24	28	28	28
	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	2	2
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	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 (12-speed)	-	-	-	-	-	-
	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	CBN	Polished	Polished	Polished	Polished	Polished
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
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	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Anodized	Anodized	Anodized (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	Brass	Brass	Brass
	Finish	Silver	Black	Black	Silver	Silver	Silver
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	Steel	Aluminum	Aluminum	Steel
	Finish	Anodized	-	-	-	-	-
Quick release lever	Material	-	-	-	-	-	Aluminum
	Finish	-	-	-	-	-	Painted
Quick release housing	Material	-	-	-	-	-	Steel
	Finish	-	-	-	-	-	Painted
Quick release nut	Material	-	-	-	-	-	Resin
	Finish	-	-	-	-	-	Black
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		678	890	1090	897	1098	982
Note			-	*1 The adapter is needed to use 10-speed cassette		*1 The adapter is needed to use 10-speed cassette	

Wheel (Disc Brake)

Series		SHIMANO
Model no.		WH-RX010-CL-R
Model name		WH-RX010-CL
Specification		R
Color	1 Hub shell	Black
	1 Quick release	Black
	2 Hub shell	-
	2 Quick release	-
Front/Rear		Rear
Brake type		CENTER LOCK disc brake
O.L.D. (mm)		135
Wheel size		622 x 17C (700C)
Tire	Type	Clincher
	Recommended size	25-622 - 38-622
Rim	Height (mm)	24
	Internal width (mm)	-
	External width (mm)	23
	Rim joint	Sleeve
	Brazed reinforcement	-
	OFFSET RIM	-
	Requires rim tape	✓
Spokes	Number	28
	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 8	-
	100 x 12	-
	142 x 12	-
Spline type	MICRO SPLINE (12-speed)	-
	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	Polished
	Cone	CBN
	Cartridge	-
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 (black)
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
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)		1177
Note		*1 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
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 (12-speed)	-	-	-	-	-	-
	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
	Cartridge	-	-	-	-	-	-
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
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	WH-R9100-C40-TU	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
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 (12-speed)	-	-	-	-	-	-
	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	Polished
	Cone	CBN	CBN	CBN	CBN	CBN	CBN+Polish
	Cartridge	-	-	-	-	-	-
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	Carbon+Aluminum	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
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		-	-	*1 The adapter is needed to use 10-speed cassette		*1 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
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 (12-speed)	-	-	-	-	-	-
	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	Polished	Polished	Polished	Polished	Polished	Polished
	Cone	CBN+Polish	CBN	CBN	CBN+Polish	CBN+Polish	CBN
	Cartridge	-	-	-	-	-	-
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
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		*1 The adapter is needed to use 10-speed cassette	-	*1 The adapter is needed to use 10-speed cassette		*1 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
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 (12-speed)	-	-	-	-	-	-
	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	Polished	Polished	Polished	Polished	Polished	Polished
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
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
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		*1 The adapter is needed to use 10-speed cassette		*1 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
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 (12-speed)	-
	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	Polished
	Cone	CBN
	Cartridge	-
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
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		

LIFESTYLE Active

LIFESTYLE Active

		Page	
<Mechanical spec.>	Shifter	156	SL
	Brake Lever (Hydraulic Disc Brake, Flat Handlebar Type)	165	BL
	Brake Lever (Hydraulic Disc Brake, Drop Handlebar Type)	166	BL
	Brake Lever (Drop Handlebar Type)	167	BL
	Shift/Brake Lever (Hydraulic Disc Brake, Flat Handlebar type)	168	ST
	Shift/Brake Lever (Flat Handlebar type)	170	ST
	Shift/Brake Lever (Hydraulic Disc Brake, Drop Handlebar type)	173	ST
	Shift/Brake Lever (Drop Handlebar type)	174	ST
	Rear Derailleur	175	RD
	Front Derailleur	180	FD
	Brake (Hydraulic Disc Brake)	186	BR
	Brake (Mechanical Disc Brake)	187	BL
	Crankset	188	FC
	Bottom Bracket (HOLLOWTECH II)	192	BB
	Bottom Bracket	193	BB
	Cassette	195	CS
	Multiple Freewheel	199	MF
	Front Hub (Disc Brake)	200	HB
	Front Hub (Rim Brake)	201	HB
	FREEHUB (Disc Brake)	202	FH
	FREEHUB (Rim Brake)	205	FH
<Di2 spec.>	Shift Switch	206	SW
	Rear Derailleur	207	RD
	AUTO SHIFT Dynamo FREEHUB	208	FH

Shifter

Series			CUES	CUES	CUES	CUES	CUES	CUES
Model no.			SL-U8000-11R	SL-U8000-11IR	SL-U8000-L	SL-U8000-IL	SL-U6001-11R	SL-U6001-10R
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	-	-
Rear speeds			11	11	-	-	11	10
Compatible rear derailleur type			LINKGLIDE 11-speed	LINKGLIDE 11-speed	-	-	LINKGLIDE 11-speed	LINKGLIDE 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)			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								

Shifter

Series			CUES	CUES	CUES	CUES	CUES	CUES
Model no.			SL-U6001-L	SL-U6000-11R	SL-U6050-11R	SL-U6000-10R	SL-U6000-L	SL-U6050-10R
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
	3		-	-	-	-	-	-
Shifter type			RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	RAPIDFIRE
Front speeds			2	-	-	-	2	-
Rear speeds			-	11	11	10	-	10
Compatible rear derailleur type			-	LINKGLIDE 11-speed	LINKGLIDE 11-speed	LINKGLIDE 10-speed	-	LINKGLIDE 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)			-	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	Stainless steel	Stainless steel	Stainless steel
	Finish		Black	Black	Black	Black	Black	Black
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
	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	CUES	CUES	CUES	CUES	CUES
Model no.			SL-U4001-9R	SL-U4001-L	SL-U4011-9R	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 PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE
Front speeds			-	2	-	-	-	-
Rear speeds			9	-	9	9	9	9
Compatible rear derailleur type			LINKGLIDE 9-speed	-	LINKGLIDE 9-speed	LINKGLIDE 9-speed	LINKGLIDE 9-speed	LINKGLIDE 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		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		plated	plated	plated	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

Shifter

Series			CUES	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO	SHIMANO
Model no.			SL-U4000-L	SL-M3100-R	SL-M3100-L	SL-M3100-2L	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 MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds			2	-	3	2	-	-
Rear speeds			-	9	-	-	8	7
Compatible rear derailleur type			-	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
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	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								

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	SHIMANO	SHIMANO
Model no.			SL-TX50-LN	SL-TX30-7R	SL-TX30-6R	SL-TX30-LN	SL-RV400-8R	SL-RV400-7R
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	-	8	7
Compatible rear derailleur type			-	MTB 7-speed	MTB 6-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)			-	6	5	-	7	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	Resin	Resin
	Finish		Painted	Painted	Painted	Painted	Resin	Resin
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								

Shifter

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			SL-RV400-6R	SL-RV400-L	SL-RV400-LN	SL-RV300-7R	SL-RV300-6R	SL-RV300-L
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
	3		-	-	-	-	-	-
Shifter type			REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front speeds			-	3	3 (friction)	-	-	3
Rear speeds			6	-	-	7	6	-
Compatible rear derailleur type			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)			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	TOURNEY TZ
Model no.			SL-RV300-LN	SL-RV200-7R	SL-RV200-6R	SL-RV200-L	SL-RV200-LN	SL-TZ500-7R
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-	-
	3		-	-	-	-	-	-
Shifter type			REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	Thumb shifter
Front speeds			3 (friction)	-	-	3	3 (friction)	-
Rear speeds			-	7	6	-	-	7
Compatible rear derailleur type			-	MTB 7-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	-	-	6
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		-	-	-	-	-	-
	Adjustable lever			-	-	-	-	-
OPTICAL GEAR DISPLAY	With		✓	✓	✓	✓	-	✓ *1
	With (removable)		-	-	-	-	-	-
	Without		-	-	-	-	-	-
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Resin	Resin	Resin	Resin	Resin	Steel
	Finish		Resin	Resin	Resin	Resin	Resin	Painted
Clamp screw	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		-	-	-	-	-	Zinc plated
Main lever body	Material		-	-	-	-	-	Resin
	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								*1 Gear Position Indicator

Shifter

Series			TOURNEY TZ	TOURNEY TZ	SHIMANO A050	SHIMANO A050
Model no.			SL-TZ500-6R	SL-TZ500-LN	SL-A050-7R	SL-A050-LN
Color	1		Series color	Series color	Series color	Series color
	2		-	-	-	-
	3		-	-	-	-
Shifter type			Thumb shifter	Thumb shifter	Handlebar mount shifter	Handlebar mount shifter
Front speeds			-	3 (friction)	-	2 (friction)
Rear speeds			6	-	7	-
Compatible rear derailleur type			MTB 6-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)			5	-	-	-
Release function	MULTI RELEASE		-	-	-	-
	INSTANT RELEASE		-	-	-	-
	2-WAY RELEASE		-	-	-	-
	Adjustable lever		-	-	-	-
OPTICAL GEAR DISPLAY	With		✓ *1	✓ *1	-	-
	With (removable)		-	-	-	-
	Without		-	-	✓	✓
Multi-bearing construction			-	-	-	-
Shift lever bracket	Material		Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Zinc plated	Zinc plated
Clamp screw	Material		Steel	Steel	-	-
	Finish		Zinc plated	Zinc plated	-	-
Main lever body	Material		Resin	Resin	Resin	Resin
	Finish		-	-	-	-
Release lever body	Material		-	-	Resin	Resin
	Finish		-	-	-	-
Base cover	Material		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
Average weight (g)			-	-	-	-
Note			*1 Gear Position Indicator	*1 Gear Position Indicator		

Brake Lever (Hydraulic Disc Brake, Flat Handlebar Type)

Series		CUES	CUES	SHIMANO
Model no.		BL-U8000	BL-U8000-ABS	BL-UR405
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		3	3	3
Color	1	Series color	Series color	Black
	2	-	-	-
	3	-	-	-
Brake hose (kit)		SM-BH90	SM-BH90	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	✓	✓	-
Clamp band	Open clamp	✓	✓	-
Recommended brake caliper		BR-U8000, BR-U8020	BR-U8020	BR-MT410
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓	✓
Clamp screw	Material	Stainless steel	Stainless steel	Steel
	Finish	Painted	Painted	Plated
Brake lever	Material	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Painted
Master cylinder	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Average weight (g)		110	110	-
Note			Special J-kit for BOSCH ABS	SHORT REACH

Brake Lever (Hydraulic Disc Brake, Drop Handlebar Type)

Series		CUES	CUES
Model no.		BL-U6030-L	BL-U4030-L
Brake type		Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		-	-
Color	1	Series color	Series color
	2	Polished silver	-
Bracket cover color	1	Standard	Standard
	2	-	-
Brake hose (kit)		SM-BH59-JK-SSR	SM-BH59-JK-SSR
Hose joint		Straight	Straight
Brake hose color (kit)	1	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
Recommended brake caliper		BR-U6030, BR-RS405	BR-U6030
Oil		SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	SHIMANO Mineral
Clamp band	Material	Steel	Steel
Bracket	Material	Engineering composite	Engineering composite
	Finish	-	-
Brake lever	Material	Aluminum	Aluminum
	Finish	Painted	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	Polished 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	-	-
	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 *1	✓	✓
		Mechanical disc brake (MTB)	✓	✓	✓	✓ with switch *1	✓	✓
		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						*1 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 *1	✓	✓ with switch *1	✓	✓ with switch *1
		Mechanical disc brake (MTB)	✓	✓ with switch *1	✓	✓ with switch *1	✓	✓ with switch *1
		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				*1 POWER MODULATOR must be used for front brake		*1 POWER MODULATOR must be used for front brake		*1 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	CUES	CUES
Model no.			ST-U6030-R	ST-U6030-L	ST-U4030-R	ST-U4030-L
Color	1		Series color	Series color	Series color	Series color
	2		Polished silver	-	-	-
Shifter type			DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds		-	2	-	2
	Rear speeds		11/10	-	9	-
	Max. multiple shifts (main lever/rear)		2	-	2	-
	Multi-bearing construction		-	-	-	-
Brake lever	Brake hose (kit)		SM-BH59-JK-SSR	SM-BH59-JK-SSR	SM-BH59-JK-SSR	SM-BH59-JK-SSR
	Hose joint		Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black
		2	-	-	-	-
	Recommended brake caliper		BR-U6030, BR-RS405	BR-U6030, BR-RS405	BR-U6030	BR-U6030
	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		-	-	-	-
Bracket	Material		Engineering composite	Engineering composite	Engineering composite	Engineering composite
	Finish		-	-	-	-
Brake lever	Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted
Clamp band	Material		Steel	Steel	Steel	Steel
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	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		-	Polished 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	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	-	-	-	-	✓ *1	✓ *1
		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							*1 Option	*1 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-U6040
Color	1		Series color	Series color	Series color	Series color	Series color	Series color
	2		-	-	Polished silver	-	-	-
Rear speeds			11	11	11/10	11	10	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		-	-	-	-	-	-
	SHADOW ES		-	-	-	-	-	-
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	16T
Total capacity			39T	48T	39T	48T	44T	41T
Low sprocket	Max.		50T	45T	50T	45T	39T	36T
	Min.		50T	45T	48T	45T	39T	36T
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	2
Pulley	Guide pulley bearing		Sealed bearing	Sealed bearing	-	-	-	-
	Tension pulley bearing		Sealed bearing	-	-	-	-	-
	Teeth		13/13T	11/13T	13/13T	11/13T	11/13T	11/13T
	Screws material		Steel	Steel	Steel	Steel	Steel	Stainless 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	Aluminum
	Finish		Painted	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	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Plated
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	

Rear Derailleur

Series			CUES	CUES	CUES	CUES	SHIMANO ALIVIO	SHIMANO ALTUS
Model no.			RD-U4000	RD-U4010	RD-U4020	RD-U3020	RD-M3100-SGS	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	LINKGLIDE, HG 11-speed	HG 9-speed	HG 9-speed
RD construction	SHIMANO SHADOW RD		✓	✓	✓	✓	✓	-
	SHIMANO SHADOW RD+		-	-	-	-	-	-
	Double servo		-	-	-	-	-	✓
	SHADOW ES		-	-	-	-	-	-
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	16T	16T	22T	22T
Total capacity			35T	28T	41T	41T	45T	45T
Low sprocket	Max.		46T	39T	36T	36T	36T	34T
	Min.		41T	36T	36T	36T	32T	28T
Top sprocket	Max.		11T	11T	11T	11T	12T	11T
	Min.		11T	11T	11T	11T	11T	11T
Fluoric coated link bushings			1	-	1	-	1	-
Pulley	Guide pulley bearing		-	-	-	-	-	-
	Tension pulley bearing		-	-	-	-	-	-
	Teeth		13/13T	11/11T	11/11T	11/11T	11T	11/11T
	Screws material		Steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley screw		✓	✓	✓	✓	✓	✓ (guide pulley), - (tension pulley)
Bracket	Material		-	-	-	-	Steel	-
	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		-	-	-	-	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
Inner link	Material		Aluminum	PA+GF	PA+GF	PA+GF	Steel	Steel
	Finish		Painted	-	-	-	Painted	Painted
Outer plate	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing 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	Plated	Zinc plated
Average weight (g)			-	-	-	-	-	-
Note			E-bike rated	E-bike rated	E-bike rated			

Rear Derailleur

Series			SHIMANO ESSA	ACERA	SHIMANO 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		-	✓	✓	✓	-	✓
	SHADOW ES		-	-	-	-	-	-
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		✓	-	-	-	-	-
	SHADOW ES		-	-	-	-	-	-
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		-
	SHADOW ES		-
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	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
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			11/10/9	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 ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO 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 *1	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							*1 Boost spec.	

Front Derailleur

Series			SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO 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	-	-	-	Polished silver	Polished silver	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SBM	SM-BH90-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) *1	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) *2	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-U4030, BL-U4030-L	ST-U6030, BL-U6030-L, ST-U4030, BL-U4030-L	BL-MT201, BL-MT200
Recommended disc brake rotor	w/ metal and resin pad	RT-CL800	RT-CL800	RT-CL800	SM-RT54 SM-RT30	SM-RT54 SM-RT30	-
	w/ resin pad	-	-	-	-	-	SM-RT10, SM-RT26
Compatible rotor size	140 mm	✓	✓	✓	-	-	-
	160 mm	✓	✓	✓	✓	✓	✓
	180 mm	✓	✓	✓	✓	✓	✓
	200 mm	✓	-	✓	-	-	-
	203 mm	✓	-	✓	-	-	-
	220 mm	✓	-	✓	-	-	-
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	-	✓	✓	✓
Mount type		Post mount	Flat mount	Post mount	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)		-	146 (Front) 137 (Rear)	-	-	-	-
Note			*1 Available in OEM package only *2 Available in OTC package only				

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	BP-B05S-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 mount
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)	157	-	-	-	-	-	-
		150	-	-	-	-	-	-
		148	-	-	-	✓	-	✓ *1
		142	✓	✓	✓	-	✓	✓
	QR/Nut (mm)	141	-	-	-	✓	-	✓ *1
		135	✓	✓	✓	-	✓	✓
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								*1 Chain line 55 mm spec. only

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		-	-	Polished silver	-	-	-
Rear speeds			11/10/9	11/10/9	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)	157	-	-	-	-	-	-
		150	-	-	-	-	-	-
		148	-	-	-	-	-	✓
		142	✓	✓	✓	✓	✓	-
	QR/Nut (mm)	141	-	-	-	-	-	✓
		135	✓	✓	✓	✓	✓	-
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		-	-	✓ (40T, Polished silver only)	-	✓ (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	SHIMANO ESSA
Model no.			FC-U4010-2	FC-U4010-2B	FC-U4000-1	FC-UT400-1	FC-U2000-1	FC-U2001-1
Color	1		Series color	Series color	Series color	Black	Series color	Series color
	2		-	-	-	-	-	-
Rear speeds			11/10/9 (36-22T, 40-26T), 10/9 (46-30T)	11/10/9	11/10/9	11/10/9	8	8
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)	157	-	-	-	-	-	-
		150	-	-	-	-	-	-
		148	-	✓	✓ *1	✓	✓ *1	-
		142	✓	-	✓	✓	✓	✓
	QR/Nut (mm)	141	-	✓	✓ *1	✓	✓ *1	-
		135	✓	-	✓	✓	✓	✓
P.C.D. (mm)			Riveted	Riveted	Riveted	Riveted	Riveted	Riveted
Spider/gear arms			4	4	4	4	4	-
Chainring combination			36-22T, 40-26T, 46-30T	36-22T	30T, 32T, 40T, 42T	32T	32T, 40T	40T
Q-factor (mm)			180	180	178	178	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, 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		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Outer ring	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Middle ring	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Inner ring	Material		Steel	Steel	-	-	-	-
	Finish		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					*1 with 30T, 32T		*1 with 32T	

Crankset

Series			TOURNEY TX	SHIMANO	SHIMANO	SHIMANO	TOURNEY A070	TOURNEY
Model no.			FC-TX801	FC-TY501-2	FC-TY501	FC-TY301	FC-A070	FC-A073
Color	1		Black	Black	Black	Black	Series color	Series color
	2		Silver	-	Silver	-	-	-
Rear speeds			8/7/6	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	HG 8/7/6-speed
Chain line (mm)			50	48.8	47.5/47.5 + t/50	47.5/47.5 + t/50	43.5	45
O.L.D.	Thru (mm)	157	-	-	-	-	-	-
		150	-	-	-	-	-	-
		148	-	-	-	-	-	-
		142	✓	✓	✓	✓	✓	✓
	QR/Nut (mm)	141	-	-	-	-	-	-
		135	✓	✓	✓	✓	✓	✓
P.C.D. (mm)			Riveted	Riveted	Riveted	Riveted	Riveted	Riveted
Spider/gear arms			4	4	4	4	5	5
Chainring combination			42-32-22T, 48-38-28T	46-30T	42-34-24T, 48-38-28T	42-34-24T, 48-38-28T	50-34T	50-39-30T
Q-factor (mm)			187.9	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-UN101, BB-UN300	BB-UN101, BB-UN300	BB-UN300	BB-UN300
	Threaded (E-type)		-	-	-	-	-	-
	Threaded (chain case)		BB-UN101-K	-	BB-UN101-K, BB-UN300K	BB-UN101-K, BB-UN300K	-	-
	Press-Fit		-	-	-	-	-	-
Axle length of BB-UN/ES (mm)			LL123	LL123	D-NL, D-EL *1	D-NL, D-EL *1	MM110	LL113
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		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Spider arm	Material		-	-	-	-	-	-
	Finish		-	-	-	-	-	-
Spider arm cover	Material		Resin	Resin	Resin	Resin	-	-
	Finish		Resin	Resin	- (black), Painted (silver)	-	-	-
Outer ring	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Middle ring	Material		Steel	-	Steel	Steel	-	Steel
	Finish		Painted	-	Painted	Painted	-	Painted
Inner ring	Material		Steel	Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material		-	-	-	-	-	-
	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					*1 Bottom bracket spec. for chain line 50 mm	150 mm spec. available for 42-34-22T (Black) *1 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-AK	BB-ES300-E	BB-ES300-K	BB-UN300	BB-UN300-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)	-	-	-	-	✓ *2	✓
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	LL113	68 (BC1.37)	-	-	-	-	✓ *2	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	✓	-
	113	68 (BC1.37)	✓	-	✓	-	-	-
		70 (M36)	✓	-	-	-	-	-
		73 (BC1.37)	✓	-	-	-	-	-
	D-H	68 (BC1.37)	-	-	-	-	✓ *1	-
		70 (M36)	-	-	-	-	-	-
	YL117	68 (BC1.37)	-	-	-	-	-	-
	117.5	68 (BC1.37)	-	-	-	-	✓ *2	✓
	118	68 (BC1.37)	✓	-	✓	-	-	-
		70 (M36)	✓	-	-	-	-	-
		73 (BC1.37)	✓	-	-	-	-	-
	XL118	68 (BC1.37)	-	-	-	-	✓ *2	✓ *1
		70 (M36)	-	-	-	-	-	-
		73 mm	-	-	-	-	✓	-
	121	68 (BC1.37)	✓	✓	✓	✓	-	-
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	✓	-	✓	-	-	-
	126	68 (BC1.37)	✓	-	✓	✓ *1	-	-
		70 (M36)	-		-	-	-	-
		73 (BC1.37)	✓	-	✓	-	-	-
	D-NL 122	68 (BC1.37)	-	-	-	-	✓ *2	✓ *2
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	✓ *1	-
	D-EL 127	68 (BC1.37)	-	-	-	-	✓ *1	✓
		70 (M36)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
	LL123	68 (BC1.37)	-	-	-	-	✓	✓ *3
		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	Bonderlube	Bonderlube	Bonderlube
Left hand adapter	Material		Resin	Resin	Resin	Resin	Aluminum	Aluminum
	Finish		-	-	-	-	-	-
Right hand adapter/ shell	Material		Steel	Steel	Steel	Steel	Aluminum/Steel	Aluminum/Steel
	Finish		Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated	-	-
Note						*1 w/ 0.7 mm spacer	*1 w/ Crank arm fixing screws spec. only *2 w/ Crank arm fixing screws spec. is available	*1 w/ Crank arm fixing screws spec. only *2 w/ Crank arm fixing screws spec. is available *3 w/ 0.7mm spacer

Bottom Bracket

Series			SHIMANO	SHIMANO	SHIMANO
Model no.			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)	-	✓ *1	✓ *1
		70 (M36)	-	-	-
		73 (BC1.37)	-	-	-
	D-EL 127	68 (BC1.37)	-	-	-
		70 (M36)	-	-	-
		73 (BC1.37)	-	-	-
	LL123	68 (BC1.37)	✓	✓	✓ *2
		70 (M36)	-	-	-
		73 (BC1.37)	-	✓	-
	123SP	68 (BC1.37)	-	-	-
	130	68 (BC1.37)	-	-	-
Spindle	Material		Steel	Steel	Steel
	Finish		Bonderlube	-	-
Left hand adapter	Material		Aluminum	Resin	Resin
	Finish		-	-	-
Right hand adapter/ shell	Material		Aluminum/Steel	Resin/Steel	Resin/Steel
	Finish		-	-	-
Note			-	*1 w/ Crank arm fixing screws spec. is available	*1 w/ Crank arm fixing screws spec. is available *2 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 *2
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)	✓ *1	✓ *1	✓ *1
	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		*1 Follow compatibility chart	*1 Follow compatibility chart	*1 Follow compatibility chart *2 Silver color is available

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)	✓ *1	✓ *1	✓ *1
	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		*1 Follow compatibility chart	*1 Follow compatibility chart	*1 Follow compatibility chart

Cassette

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-RS400-11	CS-HG400-9	CS-HG51-8
Type		HG	HG	HG
Rear speeds		11	9	8
Compatible chain		LINKGLIDE, HG 11-speed	HG 9-speed	IG, HG 8/7/6-speed
Combination name (Group name)		11-36T	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)
Combination * Titanium gear	1	11-13-15-17-19-21-23-25-28-32-36T	11-12-13-15-17-19-21-23-25T (G)	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)
	3	-	11-12-14-16-18-21-24-28-32T (ar)	11-13-15-18-21-24-28-32T (aw)
	4	-	11-13-15-17-20-23-26-30-34T (au)	-
	5	-	11-13-15-17-20-23-26-30-36T (cb)	-
	6	-	12-14-16-18-21-24-28-32-36T (bh)	-
	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	Anodized	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	0	0	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	0	0	-
	Finish	-	-	-
Steel gear	QTY (pcs)	11	9	8
	Finish	Nickel plated	Ni-Ni plated	Chrome plated
Lock ring	Material	Steel	Steel	Steel
	Finish	Nickel plated	Nickel plated	Chrome plated
Average weight (g)		-	-	-
Note				

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG50-8	CS-HG400-8	CS-HG41-8
Type		HG	HG	HG
Rear speeds		8	8	8
Compatible chain		HG 8/7/6-speed	IG, HG 8/7/6-speed	IG, HG 8/7/6-speed
Combination name (Group name)		11-28T (bf), 11-30T (an), 11-32T (aw), 11-34T (Ca), 12-23T (U), 12-25T (W), 13-26T (V)	11-40T, 11-45T	11-30T (an), 11-32T (aw), 11-34T (ao)
Combination * Titanium gear	1	11-13-15-17-19-21-24-28T (bf)	11-13-15-18-22-27-33-40T	11-13-15-17-20-23-26-30T (an)
	2	11-13-15-17-20-23-26-30T (an)	11-13-15-18-22-27-35-45T	11-13-15-18-21-24-28-32T (aw)
	3	11-13-15-18-21-24-28-32T (aw)	-	11-13-15-17-20-23-26-34T (ao)
	4	11-13-15-18-21-24-28-34T (Ca)	-	-
	5	12-13-14-15-17-19-21-23T (U)	-	-
	6	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)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	8	8	8
	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel	Steel
	Finish	Nickel plated	Phosphate coated	Phosphate coated
Average weight (g)		-	-	-
Note				

Cassette

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG31-8	CS-HG200-8	CS-HG300-8
Type		HG	HG	HG
Rear speeds		8	8	8
Compatible chain		IG, HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed
Combination name (Group name)		11-30T (an), 11-32T (aw), 11-34T (ao)	12-32T (br)	11-45T
Combination * Titanium gear	1	11-13-15-17-20-23-26-30T (an)	12-14-16-18-21-24-28-32T (br)	11-13-15-18-22-27-35-45T
	2	11-13-15-18-21-24-28-32T (aw)	-	-
	3	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	Phosphate coated	Painted	Phosphate coated
Lock ring	Material	Steel	Steel	Steel
	Finish	Phosphate coated	Painted	Phosphate coated
Average weight (g)		-	-	-
Note				

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG400-7	CS-HG41-7	CS-HG20-7
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)	11-28T (ac)	12-28T (E)
Combination * Titanium gear	1	11-13-15-18-21-24-28T (ac)	11-13-15-18-21-24-28T (ac)	12-14-16-18-21-24-28T (E)
	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)	7	7	7
	Finish	Nickel plated	Nickel plated	Brown+Black
Lock ring	Material	Steel	Steel	Steel
	Finish	Phosphate coated	Phosphate coated	Phosphate coated
Average weight (g)		-	-	-
Note				

Cassette

Series		SHIMANO	SHIMANO
Model no.		CS-HG210-7	CS-HG200-7
Type		HG	HG
Rear speeds		7	7
Compatible chain		IG, HG 8/7/6-speed	IG, HG 8/7/6-speed
Combination name (Group name)		12-28T (bm), 12-32T (bp)	12-28T (bm), 12-32T (bp)
Combination * Titanium gear	1	12-14-16-18-21-24-28T (bm)	12-14-16-18-21-24-28T (bm)
	2	12-14-16-18-21-26-32T (bp)	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
	Finish	Painted	Painted
Lock ring	Material	Steel	Steel
	Finish	Painted	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	✓	✓	✓	-	-	-
	158	-	✓	✓	-	-	-
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 (Rim Brake)

Series		SHIMANO
Model no.		HB-NN300
Color	1 Hub shell	Black
	1 Quick release	-
	2 Hub shell	-
	2 Quick release	-
Brake type		Rim brake
O.L.D. (mm)		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 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
Offset (mm)		0
P.C.D. left / right (mm)		38
Flange diameter (mm)		46
Seal		Contact
Internal grease sleeve		-
Bearing	Stainless ball	-
	Cup	-
	Cone	-
Hub shell	Material	Aluminum
	Finish	Painted
Axle	Material	Steel
	Finish	-
Quick release lever	Material	-
	Finish	-
Quick release housing	Material	-
	Finish	-
Quick release nut	Material	-
	Finish	-
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	-	-	-	Silver	-	-
	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
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 (12-speed)	✓	✓	-	-	-	-
	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	Painted	Plated	Painted	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
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 (12-speed)	-	✓	-	-	-	✓
	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
Model no.		FH-TC500-MS-B	FH-TX505-8	FH-TX506	FH-TY505-7
Color	1 Hub shell	Black	Black	Black	Black
	1 Quick release	-	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
O.L.D. (mm)		148	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 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	57.4	56.0	59.5
Offset (mm)		7.6	6.6	6.1	5.6
P.C.D. left / right (mm)		50.5/51.5	45/45	61/61	45/45
Flange diameter left / right (mm)		59.3/60.3	53.8	70.6	53.8
Spline type	MICRO SPLINE (12-speed)	✓	-	-	-
	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		-	-	-	-
Seal	Hub	Labyrinth+Contact	Contact	Contact	-
	FREEHUB body	Contact	-	-	-
Internal grease sleeve		-	-	-	-
Digital adjustment system		-	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	-	-	-	-
	Cone	-	-	-	-
	Cartridge	✓	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
Quick release lever	Material	-	Steel	Steel	Steel
	Finish	-	Plated	Plated	Plated
	Color	-	-	-	-
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					

FREEHUB (Rim Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-NN300-HM	FH-TY500-7-QR(135)	FH-TY500-7-QR(130)	FH-TY500-7-NT(135)	FH-TY500-7-NT(130)
Color	1 Hub shell	Black	Black	Black	Black	Black
	1 Quick release	-	Black	Black	-	-
	2 Hub shell	-	-	-	-	-
	2 Quick release	-	-	-	-	-
Brake type		Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
O.L.D. (mm)		135	135	130	135	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	Quick release	Nut	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
Offset (mm)		7.6	4.6	7.1	4.6	7.1
P.C.D. left / right (mm)		45	45	45	45	45
Flange diameter left / right (mm)		53.8	53.8	53.8	53.8	53.8
Spline type	MICRO SPLINE (12-speed)	-	-	-	-	-
	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
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted (black)	Painted (black)	Painted (black)	Painted (black)
Axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-
Quick release lever	Material	-	Steel	Steel	-	-
	Finish	-	Painted	Painted	-	-
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	-	-	-	-	-
Note			O.L.D. 130 mm available	O.L.D. 135 mm available	O.L.D. 130 mm available	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	CUES
Model no.			RD-U8050-SGS	RD-U8050-GS	RD-U8090-SGS	RD-U6070	RD-U6050
Color	1		Series color	Series color	Series color	Series color	Series color
	2		-	-	-	-	-
Rear speeds			11/10	10	11/10	11	10
RD construction	SHIMANO SHADOW RD		✓	✓	✓	✓	✓
	SHIMANO SHADOW RD+		-	-	-	-	-
	Double servo		-	-	-	-	-
	SHADOW ES		-	-	-	-	-
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	Single
Total capacity			39T	32T	39T	39T	32T
Low sprocket	Max.		50T	43T	50T	50T	43T
	Min.		45T	43T	45T	50T	43T
Top sprocket	Max.		11T	11T	11T	11T	11T
	Min.		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
	Screws material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw		✓	✓	✓	✓	✓
Bracket	Material		Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted
B-axle	Hollow axle		✓	✓	✓	✓	✓
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Painted	Painted	Painted	Painted	Painted
B-axle 2	Hollow axle		-	-	-	-	-
	Material		Aluminum	Aluminum	Aluminum	Stainless steel	Stainless steel
	Finish		Anodized	Anodized	Anodized	Painted	Painted
Bracket body	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted
P-axle	Material		Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated
Plate body	Material		PA+GF	PA+GF	PA+GF	PA+GF	PA+GF
	Finish		-	-	-	-	-
Outer link	Material		PA+GF	PA+GF	PA+GF	PA+GF	PA+GF
	Finish		Painted	Painted	Painted	Painted	Painted
Inner link	Material		Steel	Steel	Steel	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted
Outer plate	Material		Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted
Inner plate	Material		Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted
Stroke adjusting screw	Material		Steel	Steel	Steel	Steel	Steel
	Finish		Plated	Plated	Plated	Plated	Plated
Di2 connectivity wired	Di2 shifting		✓	✓	✓	✓	✓
Di2 connectivity wireless	Di2 shifting		✓	✓	✓	-	-
	Bluetooth® LE	Cycling power	-	-	-	-	-
	ANT+	Bicycle power	-	-	-	-	-
	Bluetooth® LE custom (*)	Adjust mode information	✓	✓	✓	-	-
		Di2 battery level	✓	✓	✓	-	-
		Gear position	✓	✓	✓	-	-
		SHIMANO E-BIKE SYSTEMS data items (***)	-	-	-	-	-
		Compatible with E-TUBE RIDE	✓	✓	✓	-	-
		Compatible with E-TUBE PROJECT	✓	✓	✓	-	-
	ANT private (**)	Adjust mode information	✓	✓	✓	-	-
		Di2 battery level	✓	✓	✓	-	-
		Gear position	✓	✓	✓	-	-
		SHIMANO E-BIKE SYSTEMS data items (***)	-	-	-	-	-
Firmware update by E-TUBE PROJECT			✓	✓	✓	✓	✓
SD50 port (pcs)			0	0	0	0	0
SD300 port (pcs)			1 *1	1 *1	1 *1	1	1
SD50 connector (pcs)			0	0	0	0	0
SD300 connector (pcs)			0	0	0	0	0
LED for system status			✓	✓	✓	✓	✓
Power supply	Built-in battery		-	-	-	-	-
	Wired		✓	✓	✓	✓	✓
Charging port			-	-	-	-	-
Charging cable			-	-	-	-	-
Average weight (g)			-	-	-	454	449
Note * Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. ** Compatible with ANT+ cycle computer but not freely open profile. *** Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.			*1 Compatible with EW-PS300	*1 Compatible with EW-PS300	*1 Compatible with EW-PS300		

AUTO SHIFT Dynamo FREEHUB

Series		CUES
Model no.		FH-U6060
Color	1 Hub shell	Series color
	1 Quick release	-
	2 Hub shell	-
	2 Quick release	-
Brake type		CENTER LOCK disc brake
Rear speeds		11/10
O.L.D. (mm)		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
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)		52.5
Offset (mm)		7.7
P.C.D. left / right (mm)		71.6/71.6
Flange diameter left / right (mm)		80.3/80.3
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
Quick engagement		-
Seal	Hub	Contact
	FREEHUB body	Contact
Internal grease sleeve		-
Digital adjustment system		-
Bearing	Stainless ball	-
	Cup	-
	Cone	-
	Cartridge	✓
FREEHUB body	Material	Steel
	Finish	-
Hub shell	Material	Aluminum
	Finish	Painted
Axle	Material	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	-
Average weight (g) (w/o axle, quick release nor lock ring)		-
Note		Use EW-SD300 compatible cable

LIFESTYLE Comfort

LIFESTYLE Comfort

		Page	
<Mechanical spec.>	Internal Geared Hub	210	SG
	Chain Tensioner	215	CT
	Sprocket	216	CS
	Shifter	217	SL
	Brake Lever (Hydraulic Disc Brake)	221	BL
	Brake Lever	222	BL
	Brake (Hydraulic Disc Brake)	223	BR
	Brake (Roller Brake)	224	RB
	Crankset	226	FC
	Front Hub (Roller Brake)	227	HB
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<Di2 spec.>	Internal Geared Hub	230	SG
	Motor Unit	232	MU

Internal Geared Hub

Series		ALFINE	ALFINE	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-S7001-11	SG-S7001-8	SG-C7010-5D	SG-C7002-5CD	SG-C7000-5V	SG-C7000-5R
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	6-bolt disc brake	Coaster brake, Special disc brake mount for SM-RTC60	V-BRAKE	INTER-M
	Recommended model	-	BR-S7000	-	BR-M6200, BR-MT420	-	BR-C6000, BR-C3010, BR-C3000
Axle fixing method		Nut	Nut	Thru (bolt)	Nut	Nut	Nut
Sprocket fixing method		Snap ring	Snap ring	Lock ring	Snap ring	Snap ring	Snap ring
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	148	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	57.3	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	0.7	3.7	3.2	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	1690	2010	1670	1670
Note							

Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-C7000-5C	SG-C7000-5D	SG-C6011-8V	SG-C6011-8R	SG-C6001-8V	SG-C6001-8R
Function name		INTER-5E	INTER-5E	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	Coaster brake	CENTER LOCK disc brake	V-BRAKE	INTER-M	V-BRAKE	INTER-M
	Recommended model	-	-	-	BR-C6000, BR-C3010, BR-C3000	-	BR-C6000, BR-C3010, BR-C3000
Axle fixing method		Nut	Nut	Nut	Nut	Nut	Nut
Sprocket fixing method		Snap ring	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Rear speeds		5	5	8	8	8	8
Gear ratio	Total	263%	263%	307%	307%	307%	307%
	1	1	1	0.527	0.527	0.527	0.527
	2	1.277	1.277	0.644	0.644	0.644	0.644
	3	1.622	1.622	0.748	0.748	0.748	0.748
	4	2.07	2.07	0.851	0.851	0.851	0.851
	5	2.63	2.63	1	1	1	1
	6	-	-	1.223	1.223	1.223	1.223
	7	-	-	1.419	1.419	1.419	1.419
	8	-	-	1.615	1.615	1.615	1.615
	9	-	-	-	-	-	-
	10	-	-	-	-	-	-
	11	-	-	-	-	-	-
Shifting structure		Top-normal	Top-normal	Low-normal	Low-normal	Low-normal	Low-normal
Silent clutch		✓	✓	✓	✓	✓	✓
Gear change support mechanism		✓	✓	✓	✓	✓	✓
Shifting POWER MODULATOR		✓	✓	✓	✓	✓	✓
Driving efficiency		High	High	High	High	Standard	Standard
w/ Left hand dust cap		-	-	✓	-	✓	-
O.L.D. (mm)		135	135	132	132	132	132
Spoke size		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	-	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
	Others	-	-	-	40H	-	40H
Axle length (mm)	182	-	-	-	-	-	-
	184	-	-	✓	✓	✓	✓
	187	✓	✓	-	-	-	-
	193	-	-	-	-	-	-
	Others	-	-	-	-	203	203
Flange distance (mm)		58.3	57.3	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)		3.7	3.2	2.7	2.7	2.7	2.7
P.C.D. left / right (mm)		92.6	92.6	92.6	92.6	92.6	92.6
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (g)		1970	1650	1685	1660	1735	1710
Note							

Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-C6001-8C	SG-C6001-8D	SG-C6001-8CD	SG-C3001-7R	SG-C3001-7C	SG-C3001-7C-DX
Function name		INTER-8	INTER-8	INTER-8	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	Coaster brake	CENTER LOCK disc brake	Coaster brake, Special disc brake mount for SM-RTC60	INTER-M	Coaster brake	Coaster brake
	Recommended model	-	-	-	BR-C3010, BR-C3000	-	-
Axle fixing method		Nut	Nut	Nut	Nut	Nut	Nut
Sprocket fixing method		Snap ring	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Rear speeds		8	8	8	7	7	7
Gear ratio	Total	307%	307%	307%	244%	244%	244%
	1	0.527	0.527	0.527	0.632	0.632	0.632
	2	0.644	0.644	0.644	0.741	0.741	0.741
	3	0.748	0.748	0.748	0.843	0.843	0.843
	4	0.851	0.851	0.851	0.989	0.989	0.989
	5	1	1	1	1.145	1.145	1.145
	6	1.223	1.223	1.223	1.335	1.335	1.335
	7	1.419	1.419	1.419	1.545	1.545	1.545
	8	1.615	1.615	1.615	-	-	-
	9	-	-	-	-	-	-
	10	-	-	-	-	-	-
	11	-	-	-	-	-	-
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)		132	135	135	130	127	127
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)		58.3	57.3	58.3	54.6	56.2	56.2
Flange diameter (mm)		105.2	105.2	105.2	99.6	92.5	92.5
Flange width (mm)	Right	3.2	3.2	3.2	3.2	2.3	2.3
	Left	3.2	3.2	3.2	3.2	2.7	2.7
Offset (mm)		2.55	3.1	4	3.85	4.6	4.6
P.C.D. left / right (mm)		92.6	92.6	92.6	87	83.5	83.5
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Plated	Plated+Painted (clear)
Average weight (g)		2040	1730	2090	1495	1915	1915
Note					*European market only	*European market only	

Internal Geared Hub

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		SG-C3001-7D	SG-5R30	SG-5R30-VS	SG-3R75-B	SG-3R40	SG-3R42
Function name		INTER-7	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	CENTER LOCK disc brake	INTER-M	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
Axle fixing method		Nut	Nut	Nut	Nut	Nut	Nut
Sprocket fixing method		Snap ring	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Rear speeds		7	5	5	3	3	3
Gear ratio	Total	244%	206%	206%	158%	186%	186%
	1	0.632	0.750	0.750	0.632	0.733	0.733
	2	0.741	1.001	1.001	0.741	1.000	1.000
	3	0.843	1.159	1.159	1.000	1.364	1.364
	4	0.989	1.335	1.335	-	-	-
	5	1.145	1.545	1.545	-	-	-
	6	1.335	-	-	-	-	-
	7	1.545	-	-	-	-	-
	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)		135	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	53.0
Flange diameter (mm)		99.6	86	86	92.5	84	70
Flange width (mm)	Right	3.2	2.3	2.3	2.3	2.3	3.0
	Left	3.2	2.5	2.5	2.7	2.3	3.0
Offset (mm)		2.5	0.3	0.3	3.6	0.8 (120mm axle)/2.5	0.8
P.C.D. left / right (mm)		87	76	76	83.5	74	60
Hub shell	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Plated	Plated	Plated	Plated	Plated
Average weight (g)		1470	1305	1330	1315	885	872
Note		*European 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	-	-
Axle fixing method		Nut	Nut
Sprocket fixing method		Snap ring	Snap ring
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-C6001-8	SL-7S50	SL-C3001-7
Color	1		Silver	Silver	Silver	Black	Silver	Black
	2		Black	Black	Black	Silver	Black	Silver
	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, INTER-8	INTER-8	INTER-7	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/Paint (silver)	Painted	Resin/Paint (silver)
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		-	-	-	Resin/Paint (silver)	-	Resin/Paint (silver)
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	

Shifter

Series			NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.			SL-C3000-7	SL-C7000-5	SL-5S50	SL-5S30	SL-5S30-A	SL-3S42E
Color	1		Silver	Silver	Silver	Silver	Silver	-
	2		Black	Black	Black	Black	Black	Black
	3		-	-	-	White	White	-
Shifter type			REVOSHIFT	REVOSHIFT	RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT	REVOSHIFT
Top-normal			-	✓	-	-	-	-
Front speeds			-	-	-	-	-	-
Rear speeds			7	5	5	5	5	3
Compatible rear derailleur/internal geared hub type			INTER-7	INTER-5E	INTER-5	INTER-5	INTER-5	INTER-3
Compatible front derailleur type			-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever cable adjust			✓	✓	✓	✓	✓	-
Max. multiple shifts (main lever/rear)			6	4	1	4	4	2
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		Window	Window	Window	Window	Window	Window
	With (removable)		-	-	-	-	-	-
	Without		-	-	-	-	-	-
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Resin	Resin	Aluminum	Resin	Resin	Resin
	Finish		Resin	Resin	Painted	Resin	Resin	Resin
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-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP40
Clamping diameter (mm)			22.2	22.2	22.2	22.2	22.2	22.2
Average weight (g)			-	-	-	-	-	-
Note			*European market only	w/ Rubber bellows spec. is available	*Japan market only	*Japan market only	*Japan market only	

Shifter

Series			NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.			SL-C2010-3	SL-3S41E	SL-3S35E	SL-3S58	SL-3S42	SL-3S43
Color	1		Black	-	-	Silver	Silver	Silver
	2		-	Black	Black	Black	Black	Black
	3		-	-	-	White	-	White
Shifter type			RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Top-normal			-	-	-	-	-	-
Front speeds			-	-	-	-	-	-
Rear speeds			3	3	3	3	3	3
Compatible rear derailleur/internal geared hub type			INTER-3	INTER-3	INTER-3	INTER-3	INTER-3	INTER-3
Compatible front derailleur type			-	-	-	-	-	-
Shift lever position adjust			-	-	-	-	-	-
Shift lever cable adjust			✓	-	-	-	-	-
Max. multiple shifts (main lever/rear)			1	2	2	2	2	2
Release function	MULTI RELEASE		-	-	-	-	-	-
	INSTANT RELEASE		-	-	-	-	-	-
	2-WAY RELEASE		-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With		Below handlebar	Window	Dial	Window	Window	Window
	With (removable)		-	-	-	-	-	-
	Without		-	-	-	-	-	-
Multi-bearing construction			-	-	-	-	-	-
Shift lever bracket	Material		Aluminum	Resin	Aluminum	Resin	Resin	Resin
	Finish		Painted	Resin	Painted	Resin	Resin	Resin
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			SP outer for IHG	OT-SP40	OT-SP40	OT-SP40	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								

Shifter

Series			NEXUS
Model no.			SL-3S90
Color	1		Gray
	2		Black
	3		-
Shifter type			Piano-touch
Top-normal			-
Front speeds			-
Rear speeds			3
Compatible rear derailleur/internal geared hub type			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	Silver
	2	Black	Black
	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-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	w/ metal and resin pad	SM-RT64, SM-RT66
	w/ resin pad	-
Compatible rotor size	140 mm	✓
	160 mm	✓
	180 mm	✓
	200 mm	✓
	203 mm	✓
	220 mm	-
Oil		SHIMANO Mineral
ONE WAY BLEEDING		✓
Mount type		Post mount
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 (*)		1.5	1.5	1.5	1.5	1.5	1.2
Cooling fin diameter (mm)		138	138	138	138	150	150
Heat dissipation (*)		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 * 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 (*)		1.5	1.5	1.2	1.2	1.3	1
Cooling fin diameter (mm)		150	150	150	150	140	140
Heat dissipation (*)		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 * 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 (*)		1.3	1.0	1.3	1	1.3	1.3
Cooling fin diameter (mm)		140	140	122	122	122	122
Heat dissipation (*)		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 * 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 (*)		1.0	1.0	0.9
Cooling fin diameter (mm)		122	122	90
Heat dissipation (*)		1.0	1.0	Less than 1
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 * 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)	45
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		SHIMANO	SHIMANO
Model no.		FH-IM20	RH-IM11
Color	Hub shell	Silver	Silver
	Quick release	-	-
Spoke holes	28H	✓	✓
	32H	-	✓
	36H	✓	✓
	Others	-	-
	P.C.D. (mm)	45	74
FREEHUB body	Speeds	7	-
	11T compatible	✓	-
	Roller clutch	-	-
	Material	Steel	Steel
O.L.D. (mm)		134.7	132.7 (6-speed), 134.7 (7-speed)
Flange diameter (mm)		54	84
Flange distance (mm)		61.2	57.1
Dish (mm)		5.85	6.9 (6-speed), 7.9 (7-speed)
Axle fixing method		Nut	Nut
Axle (quick release type)	Quick release skewer length	-	-
	Length (mm)	-	-
	Material	-	-
Axle (nut type)	Length left / right (mm)	194, 202	180, 185, 192, 200, 204
	Material	Steel	Steel
Seal	Hub	-	-
	Freewheel	-	-
Hub shell	Material	Steel	Steel
	Finish	Chrome plated	Plated
Note			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
	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-C7060-5D	SG-C7050-5V
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	6-bolt disc brake	V-BRAKE
	Recommended model	-	-	-	-	-	-
Axle fixing method		Nut	Nut	Nut	Nut	Thru (bolt)	Nut
Sprocket fixing method		Snap ring	Snap ring	Snap ring	Snap ring	Lock ring	Snap ring
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	148	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	57.3	58.3
Flange diameter (mm)		104.3	104.3	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset (mm)		3.15	3.15	3.1	3.4	0.7	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	1685	1680	1690	1670
Note							

Internal Geared Hub

Series		NEXUS
Model no.		SG-C7050-5D
Function name		INTER-5E
Color	1	Silver
	2	Black
	3	-
Brake type	Mount type	CENTER LOCK disc brake
	Recommended model	-
Axle fixing method		Nut
Sprocket fixing method		Snap ring
Rear speeds		5
Gear ratio	Total	263%
	1	1
	2	1.277
	3	1.622
	4	2.07
	5	2.63
	6	-
	7	-
	8	-
	9	-
	10	-
	11	-
Shifting structure		Di2
Silent clutch		✓
Gear change support mechanism		✓
Shifting POWER MODULATOR		✓
Driving efficiency		High
w/ Left hand dust cap		-
O.L.D. (mm)		135
Spoke size		#13/#14
Spoke hole	28H	-
	32H	✓
	36H	✓
	Others	-
Axle length (mm)	182	-
	184	-
	187	✓
	193	-
	Others	-
Flange distance (mm)		57.3
Flange diameter (mm)		105.2
Flange width (mm)	Right	3.2
	Left	3.2
Offset (mm)		3.2
P.C.D. left / right (mm)		92.6
Hub shell	Material	Aluminum
	Finish	Painted
Average weight (g)		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-C7060-5	SG-S7051-11, SG-S7051-8, SG-C6061-8, SG-C7050-5, SG-C7060-5	SG-S7051-11, SG-S7051-8, SG-C6061-8, SG-C7050-5
Compatible speed		11/8/5	11/8/5	11/8/5
Master unit		-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓
SD50 port (pcs)		0	0	1
SD300 port (pcs)		1 *1	1	0
SD50 connector (pcs)		0	0	0
SD300 connector (pcs)		0	0	0
Charging port (pcs)		0	0	0
Note		*1 Compatible with EW-PS300	-	-

GENERAL Di2 spec.

GENERAL Di2 spec.

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Multi Purpose Switch

Series			SHIMANO
Model no.			SW-UT600-LR
Switch type			-
Position			Clamp band
Di2 connectivity wired	Di2 shifting		-
Di2 connectivity wireless	Di2 shifting		✓
	SHIMANO E-BIKE SYSTEMS		✓
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		Rear shift down
	Multiple input	2 step	-
		Hold	✓
	Adjustable lever position		-
Switch2	Default function		Rear shift up
	Multiple input	2 step	-
		Hold	✓
	Adjustable lever position		-
Switch3	Default function		Shifting mode
	Multiple input	2 step	-
		Hold	✓
Battery			CR1632 x 1
LED	Shimano system status		✓
Average weight (g)			-
Note			

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
Cable 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
Model no.		SM-EWC2
Specification		Long/Short
Color	1	Black
	2	White
	3	-
Length		Long: 300 mm, Short: 50 mm
Compatible electric wire		EW-SD50
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	✓ *1
	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		** Display function depends on the specification of cycle computer *1 ANT private has compatibility with ANT+ cycle computer but not freely open profile

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/ handlebar	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	SHIMANO
Model no.	BT-DN300	BT-DN320	BT-DN110-A	BT-DN110
Type	Internal battery	On-board battery	Internal battery	Internal battery
Chemistry	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Rated voltage (V)	7.4	7.6	7.4	7.4
Rated capacity (Ah)	0.5	0.305	0.5	0.5
Rated capacity (Wh)	3.7	2.32	3.7	3.7
Compatible charger	RD-R9250, RD-R8150, RD-R7150, RD-RX825	EC-DN100	SM-BCR2	SM-BCR2
Master unit	✓	-	✓	✓
Firmware update by E-TUBE PROJECT	✓	-	✓	✓
SD50 port (pcs)	0	0	1	1
SD300 port (pcs)	3	0	0	0
SD50 connector (pcs)	0	0	0	0
SD300 connector (pcs)	0	0	0	0
Average weight (g)	52	26.5	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 Charger

Series	SHIMANO	SHIMANO
Model no.	EC-DN100	SM-BCR2
Compatible battery	BT-DN320	BT-DN110, BT-DN110-A
Charging cord	Included	Included 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
Cable diameter	ø2.3
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			

Di2 Adapter

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

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 *1
Cable length (m)	1.0, 1.6
Cable diameter	-
Plug diameter	-
Note	*1 Different shaped connector based on SD300 connector

USB Unit

Series	SHIMANO
Model no.	EW-USB30-C
USB port (pcs)	Type-C: 1
SD50 port (pcs)	0
SD300 port (pcs)	1
SD50 connector (pcs)	0
SD300 connector (pcs)	0
Power supply	5 V DC / 1.5 A
PC linkage	✓
Note	Fixing position : Fixing on handle bar with clamp band or top tube integration with display.

GENERAL

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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	SIL-TEC	Gray	SIL-TEC	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

Rotor (CENTER LOCK)

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			RT-CL900	RT-CL800	RT-CL700	RT-CL750	RT-CL300	SM-RT900
ICE TECHNOLOGIES			✓	✓	✓	-	-	✓
ICE TECHNOLOGIES FREEZA			✓	✓	-	-	-	✓
ICE TECHNOLOGIES FREEZA w/ heat dissipation paint			✓	-	-	-	-	✓
Outside diameter (mm)	220		-	-	-	✓	-	-
	203		✓	✓	✓	-	✓	-
	200		-	-	-	✓	-	-
	180		✓	✓	✓	-	✓	-
	160		✓	✓	✓	-	✓	✓
	140		✓	✓	✓	-	-	✓
Adapter	Material		Aluminum	Aluminum	Aluminum	Aluminum	Stainless steel	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	Stainless steel	Stainless steel + Aluminum + Stainless steel
	Finish		Polished	Polished	Polished	Polished	Polished	Polished
Rotor thickness	Standard 1.75(mm)		✓	✓	✓	-	✓	✓
	Thick 2.2(mm)		-	-	-	✓	-	-
Pad material compatibility	Metal		✓	✓	✓	✓	-	✓
	Resin		✓	✓	✓	✓	✓	✓
Pad lining shape compatibility	Narrow		✓	✓	✓	✓	✓	✓
	Wide		-	-	-	-	✓	-
Lock ring	Internal type	Material	Aluminum	Aluminum	Steel	Steel	-	Aluminum
		Finish	Anodized	Anodized	Painted	Painted	-	Anodized
	External type	Material	Aluminum	Aluminum	Steel	Steel	-	-
		Finish	Anodized	Anodized	Painted	Painted	-	-
	Internal/ external type	Material	-	-	-	-	Steel	-
		Finish	-	-	-	-	Painted	-
	Internal type with magnet for EW-SS302	Material	Aluminum (except 140 mm)	Aluminum (except 140 mm)	-	Aluminum	Aluminum	-
		Finish	Anodized (except 140 mm)	Anodized (except 140 mm)	-	Anodized	Anodized	-
	External type with longer thread for SM-EWSS2	Material	-	-	-	Steel	-	-
		Finish	-	-	-	Painted	-	-
	Internal/ external type with longer thread for SM-EWSS2	Material	-	-	-	-	Steel	-
		Finish	-	-	-	-	Painted	-
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)	106 (140 mm), 127 (160 mm), 153 (180 mm), 188 (203 mm)	253 (200 mm), 283 (220 mm)	-	99 (140 mm), 117 (160 mm)
Note								

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			SM-RT800	SM-RT64	SM-RT54	SM-RT30	SM-RT10
ICE TECHNOLOGIES			✓	-	-	-	-
ICE TECHNOLOGIES FREEZA			✓	-	-	-	-
ICE TECHNOLOGIES FREEZA w/ heat dissipation paint			-	-	-	-	-
Outside diameter (mm)	220		-	✓	-	-	-
	203		-	✓	-	✓	-
	200		-	-	-	-	-
	180		-	✓	✓	✓	✓
	160		✓	✓	✓	✓	✓
	140		✓	✓	-	-	-
Adapter	Material		Aluminum	Aluminum	Aluminum	Stainless steel	Steel
	Finish		Painted	Painted	Painted	Painted	Painted
Rotor	Material		Stainless steel + Aluminum + Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish		Polished	Polished	Polished	Polished	Polished
Rotor thickness	Standard 1.75(mm)		✓	✓	✓	✓	✓
	Thick 2.2(mm)		-	-	-	-	-
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	-	-	-	Steel	Steel
		Finish	-	-	-	Painted	Painted
	Internal type with magnet for EW-SS302	Material	-	Aluminum	-	Aluminum	-
		Finish	-	Anodized	-	Anodized	-
	External type with longer thread for SM-EWSS2	Material	-	-	-	-	-
		Finish	-	-	-	-	-
	Internal/ external type with longer thread for SM-EWSS2	Material	-	-	-	-	-
		Finish	-	-	-	-	-
Average weight (g) (w/o lock ring)			108 (140 mm), 128 (160 mm)	-	-	-	-
Note							

Rotor (6-bolt)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		RT-6B750	RT-MT905	SM-RT86	SM-RT66	SM-RT56	SM-RT26
ICE TECHNOLOGIES		-	✓	✓	-	-	-
ICE TECHNOLOGIES FREEZA		-	✓	-	-	-	-
ICE TECHNOLOGIES FREEZA w/ heat dissipation paint		-	✓	-	-	-	-
Outside diameter (mm)	220	✓	-	-	✓	-	-
	203	-	✓	✓	✓	-	-
	200	✓	-	-	-	-	-
	180	-	✓	✓	✓	✓	✓
	160	-	-	✓	✓	✓	✓
	140	-	-	-	-	-	✓
Adapter	Material	-	Aluminum	Aluminum	-	-	-
	Finish	-	Painted	Painted	-	-	-
Rotor	Material	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
Rotor thickness	Standard 1.75(mm)	-	✓	✓	✓	✓	✓
	Thick 2.2(mm)	✓	-	-	-	-	-
Pad material compatibility	Metal	✓	✓	✓	✓	-	-
	Resin	✓	✓	✓	✓	✓	✓
Pad lining shape compatibility	Narrow	✓	✓	✓	✓	✓	✓
	Wide	-	-	-	-	✓	✓
SM-EWSS1	Compatibility	-	-	-	-	-	-
	Included spec.	-	-	-	-	-	-
Average weight (g) (w/o lock ring)		234 (200 mm), 267 (220 mm)	147 (180 mm), 187 (203 mm)	135 (160 mm), 154 (180 mm), 187 (203 mm)	-	-	-
Note		With anti loosen tightening plate	With anti loosen tightening plate	With anti loosen tightening plate	With anti loosen tightening plate	With anti loosen tightening plate	With anti loosen tightening plate

Rotor (5-bolt)

Series		SHIMANO
Model no.		SM-RTC60
ICE TECHNOLOGIES		-
ICE TECHNOLOGIES FREEZA		-
ICE TECHNOLOGIES FREEZA w/ heat dissipation paint		-
Outside diameter (mm)	220	-
	203	-
	200	-
	180	-
	160	✓
	140	-
Adapter	Material	Steel
	Finish	Painted
Rotor	Material	Stainless steel
	Finish	Polished
Rotor thickness	Standard 1.75(mm)	✓
	Thick 2.2(mm)	-
Pad material compatibility	Metal	✓
	Resin	✓
Pad lining shape compatibility	Narrow	✓
	Wide	-
Average weight (g) (w/o lock ring)		-
Note		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	High	High	High	High	High
Banjo	Material	-	Aluminum	Aluminum	Aluminum	Aluminum	-
	Length	-	Standard	Long	Standard	Standard	-
	Banjo screw length	-	Long	Short	Long *1	Short	-
	Banjo screw material	-	Steel	Steel	Steel	Steel	-
Flare nut	Material	Steel	Steel	Steel	Steel	Steel	Steel
Note					*1 Banjo screw is not included for BR-M9120 and BR-M8100 spec.		

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 Mount Adapter

Series			SHIMANO	SHIMANO	SHIMANO
Model no.			MA-P0020-N1	MA-P0020-N2	MA-P0040-N1
Spec			140mm direct mount to 160mm, 160mm direct mount to 180mm	180mm direct mount to 200mm, 200mm direct mount to 220mm	160mm direct mount to 200mm, 180mm direct mount to 220mm
Color	1		Black	Black	Black
	2		-	-	-
Brake caliper mount style	Post mount		✓	✓	✓
	International A-standard		-	-	-
	Flat mount		-	-	-
Fork and frame mount style	Post mount	140 mm direct	-	-	-
		140/160 mm direct	✓	-	-
		160 mm direct	-	-	-
		160/180 mm direct	-	-	✓
		180 mm direct	-	-	-
		180/200 mm direct	-	✓	-
		200 mm direct	-	-	-
		203 mm direct	-	-	-
	International A-standard		-	-	-
	Flat mount		-	-	-
	For Front/Rear		✓	✓	✓
Compatible rotor size (mm)	140		-	-	-
	140/160		-	-	-
	160		-	-	-
	160/180		✓	-	-
	180		-	-	-
	200		-	-	-
	200/220		-	✓	✓
	203		-	-	-
	220		-	-	-
Anti-loose type	Snap ring type		✓	✓	✓
	Wire type		-	-	-
Adapter	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted
Note					

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-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).

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	SHIMANO	SHIMANO
Model no.		SM-PM70	SM-PM60	SM-PM50	SM-PM40
Modulator level		Standard	High *1	Standard	Standard
Mount type		Lead pipe	Outer casing	Outer casing	Lead pipe
Available lead pipe angle	90 deg.	✓	-	-	✓
	135 deg.	✓	-	-	✓
Compatible brake	V-BRAKE	✓ *1	✓ *2	-	✓ *1
	Mechanical disc brake (MTB)	-	-	✓ *1	-
	Mechanical disc brake (Road)	-	-	-	-
	Caliper (NEW SUPER SLR)	-	-	-	-
	Caliper (SUPER SLR)	-	-	-	-
	Cantilever brake	-	-	-	-
	Roller brake	-	-	-	-
Compatible brake lever	V-BRAKE 4-finger	✓ *2	✓ *3	✓ *2	✓ *2
	V-BRAKE 3-finger	✓ *2	✓ *3	✓ *2	✓ *2
	V-BRAKE 2-finger	✓	✓	✓	✓
	Road	-	-	-	-
Body	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized+Laser marking	Barrel and Sticker	Barrel and Printed	Barrel and Sticker
Lead pipe	Material	Stainless steel	-	-	Stainless steel
Note		*1 Except brake integrated POWER MODULATOR *2 POWER MODULATOR should be used for front brake	*1 City use for Japan market *2 Except brake integrated POWER MODULATOR *3 POWER MODULATOR should be used for front brake	*1 Except brake integrated POWER MODULATOR *2 POWER MODULATOR should be used for front brake	*1 Except brake integrated POWER MODULATOR *2 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-3D72
Regulation	StVZO	✓	✓	✓	✓	✓	✓
	TPGBi	-	-	-	-	-	✓
	JIS	-	-	-	-	-	-
	Others	ISO	-	-	-	-	-
Color	1 Hub shell	Silver	Silver	Silver	Black	Silver	Silver
	1 Quick release	-	-	Silver	Black	-	Silver
	2 Hub shell	Black	Black	Black	-	Black	Black
	2 Quick release	-	-	Black	-	-	Black
Brake type		Disc brake	Disc brake	Disc brake	Disc brake	Regular	Disc brake
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	646-716
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	-	-	✓	✓	✓	✓
	158	-	-	-	-	-	-
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)		52.0	52.0	52.0	51.0	56.0	52.1
Offset (mm)		3.5	3.5	3.5	1.9	0	3.8
P.C.D. left / right (mm)		62	62	62	67	67	70
Axle length (mm)		100	100	108	108	108	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	Anodized	Anodized	Painted	Painted	Anodized+Painted/ Anodized
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	559
Note			Recommended E-THRU axle: SM-AX720		* For LED light use only	* For LED light use only	

Hub Dynamo

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	ALFINE	NEXUS
Model no.		DH-3D37-QR	DH-3D37-NT	DH-3D32-QR	DH-3D32-NT	DH-S501	DH-C6000-3R-NT
Regulation	StVZO	✓	✓	✓	✓	✓	✓
	TPGBi	✓	✓	✓	✓	-	✓
	JIS	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Color	1 Hub shell	Silver	Silver	Clear	Clear	Silver	Silver
	1 Quick release	-	-	-	-	Silver	Black
	2 Hub shell	Black	Black	Black	Black	Piano black	-
	2 Quick release	-	-	-	-	Silver	-
Brake type		Disc brake	Disc brake	Disc brake	Disc brake	Disc brake	Hub roller brake
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)	400-716	400-716	400-716	400-716	646-716	646-716
Axle fixing method		Quick release	Nut	Quick release	Nut	Quick release	Nut
Quick release type		✓	-	✓	-	✓	-
Nut type		-	✓	-	✓	-	✓
E-THRU type		-	-	-	-	-	-
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	✓	-	✓	-	✓	-
	158	✓	-	-	-	-	-
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)		51.0	51.0	51.1	51.1	52.1	58.1
Offset (mm)		4	4	4	3.6	3.8	4.7
P.C.D. left / right (mm)		74	74	74	74	70	76
Axle length (mm)		108	140	108	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	Painted	Painted	Painted	Painted	Anodized	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Phosphate coated	Zinc plated	Phosphate coated	Zinc plated	Phosphate coated
Quick release lever	Material	Steel	-	Steel	-	Aluminum	-
	Finish	Nickel plated	-	Nickel plated	-	Anodized	-
Quick release housing	Material	Steel	-	Steel	-	Aluminum	-
	Finish	Nickel plated	-	Nickel plated	-	Anodized	-
Quick release nut	Material	Steel+Resin	-	Steel+Resin	-	Steel+Resin	-
	Finish	-	-	-	-	-	-
Average weight (g)		650	680	685	705	564	960
Note							

Hub Dynamo

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		DH-C6000-2R	DH-C6000-1R	DH-C3000-3N-QR	DH-C3000-3N-NT	DH-C3000-2N-QR	DH-C3000-2N-NT
Regulation	StVZO	-	✓	✓	✓	-	-
	TPGBi	-	-	✓	✓	-	-
	JIS	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Color	1 Hub shell	Silver	Silver	Silver	Silver	Silver	Silver
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	Black	Black	Black	Black	Black	Black
	2 Quick release	-	-	-	-	-	-
Brake type		Hub roller brake	Hub roller brake	Regular	Regular	Regular	Regular
CENTER LOCK mount type		-	-	-	-	-	-
Voltage (V)		6	6	6	6	6	6
Output (W)		2.4	1.5	3.0	3.0	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)	646-716	646-716	400-716	400-716	400-716	400-716
Axle fixing method		Nut	Nut	Quick release	Nut	Quick release	Nut
Quick release type		-	-	✓	-	✓	-
Nut type		✓	✓	-	✓	-	✓
E-THRU type		-	-	-	-	-	-
Quick release skewer length (mm)	129	-	-	✓	-	✓	-
	133	-	-	✓	-	✓	-
	158	-	-	-	-	-	-
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)		58.1	58.1	60.0	60.0	60.0	60.0
Offset (mm)		4.7	4.7	0.6	1.0	0.6	1.0
P.C.D. left / right (mm)		76	76	74	74	74	74
Axle length (mm)		140	140	108	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	Painted	Painted	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated
Quick release lever	Material	-	-	Steel	-	Steel	-
	Finish	-	-	Nickel plated	-	Nickel plated	-
Quick release housing	Material	-	-	Steel	-	Steel	-
	Finish	-	-	Nickel plated	-	Nickel plated	-
Quick release nut	Material	-	-	Steel+Resin	-	Steel+Resin	-
	Finish	-	-	-	-	-	-
Average weight (g)		960	960	700	712	700	705
Note			* For LED light use only				

Hub Dynamo

Series		NEXUS
Model no.		DH-C3000-1N
Regulation	StVZO	✓
	TPGBi	-
	JIS	-
	Others	-
Color	1 Hub shell	Silver
	1 Quick release	-
	2 Hub shell	Black
	2 Quick release	-
Brake type		Regular
CENTER LOCK mount type		-
Voltage (V)		6
Output (W)		1.5
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)	448-716
Axle fixing method		Nut
Quick release type		-
Nut type		✓
E-THRU type		-
Quick release skewer length (mm)	129	-
	133	-
	158	-
Thru axle (length x inner diameter ; mm)	100 x 12	-
	100 x 15	-
O.L.D. (mm)		100
Flange distance (mm)		56.0
Offset (mm)		0
P.C.D. left / right (mm)		67
Axle length (mm)		140
Spoke size		#14
Spoke hole	24H	-
	28H	-
	32H	✓
	36H	✓
Seal		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
	Finish	Painted
Axle	Material	Steel
	Finish	Phosphate coated
Quick release lever	Material	-
	Finish	-
Quick release housing	Material	-
	Finish	-
Quick release nut	Material	-
	Finish	-
Average weight (g)		600
Note		* For LED light use only

E-THRU axle

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
Model no.		AX-MT500-148x12	AX-MT500-157x12	SM-AX80	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	M10 x 1.00 (10 mm), M12 x 1.75 (12 mm)	M12 x 1.5	M12 x 1.5
	Length (mm)	172	181	168/183	171	177
	Hollow axle	✓	✓	✓	✓	✓
	Material	Aluminum	Aluminum	Chromoly steel	Aluminum	Aluminum
	Finish	Silver anodized	Silver anodized	Plated	Silver anodized	Silver anodized
Lever	Material	Aluminum	Aluminum	-	Aluminum	Aluminum
	Finish	Painted (black)	Painted (black)	-	Painted (black)	Painted (black)
Housing	Material	Aluminum	Aluminum	-	Aluminum	Aluminum
	Finish	Painted (black)	Painted (black)	-	Painted (black)	Painted (black)
Fixing nut	Material	-	-	Steel	Aluminum	Aluminum
	Finish	-	-	Plated	Black anodized	Black anodized
Average weight (g)		80	83	133 (135 x 10 mm) 160 (135 x 12 mm) 169 (150 x 12 mm)	75	77
Note						

Pedals (SPD)

Series		XTR	XTR	XTR	DEORE XT	DEORE XT	GRX
Model no.		PD-M9200	PD-M9220	PD-M9120	PD-M8220	PD-M8100	PD-M8100-UG
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	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	-	-	-	-	-	-
	CL-MT001	-	✓	-	✓	-	-
Optional cleat	SM-SH51	-	✓	-	-	-	-
	SM-SH56	✓	✓	✓	✓	✓	✓
	CL-MT001	✓	-	✓	-	✓	✓
Reflector		SM-PD60, SM-PD22 (3 mm shorter axle type)	SM-PD60	SM-PD60	SM-PD60	SM-PD60	SM-PD60
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Cage	Material	-	-	-	-	-	-
Stack height (mm)		15.1	18.2	15.4	16.2	16.5	16.5
Pedal center (mm)		52/55	55	55	55	55	55
Average weight (g)		316 (/pair) (Short axle type) 318 (/pair) (Normal axle type)	439 (/pair)	398 (/pair)	472 (/pair)	342 (/pair)	342 (/pair)
Note		3 mm shorter axle available 1.0 mm cleat spacer included	1.0 mm cleat spacer included 4 pins per side	1.0 mm cleat spacer included	1.0 mm cleat spacer included 4 pins per side	1.0 mm cleat spacer included	United in Gravel limited edition, 1.0 mm cleat spacer included

Pedals (SPD)

Series		DEORE XT	SHIMANO	SHIMANO	SHIMANO	SAINT	DXR
Model no.		PD-M8120	PD-M540	PD-M520	PD-M505	PD-M821	PD-MX70
Color	1	Black	Silver	Silver	Silver	Black	Black
	2	-	Black	Black	Black	-	-
	3	-	-	White	-	-	-
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	-	-	-	-	-	-
	CL-MT001	-	-	-	-	-	-
Optional cleat	SM-SH51	-	-	-	-	-	-
	SM-SH56	✓	✓	✓	✓	✓	✓
	CL-MT001	✓	✓	✓	✓	✓	✓
Reflector		SM-PD60	SM-PD22	SM-PD22	SM-PD22	SM-PD60	SM-PD60
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized (silver)/Painted (bronze)	Polished (silver)/Painted (black)/Painted (white)	Polished (silver)/Painted (black)	Painted	Anodized
Cage	Material	-	-	-	-	-	-
Stack height (mm)		16.2	17.0	17.0	18.3	16.9	16.7
Pedal center (mm)		55	55	55	55	55	55
Average weight (g)		438 (/pair)	350 (/pair)	373 (/pair)	443 (/pair)	545 (/pair)	413 (/pair)
Note		1.0 mm cleat spacer included				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

Pedals (SPD)

Series		SHIMANO	SHIMANO	SHIMANO	DEORE XT	SHIMANO	SHIMANO
Model no.		PD-M324	PD-MT520	PD-ME700	PD-T8000	PD-ES600	PD-EH510
Color	1	Silver	Black	Black	Black	Dark gray	Black
	2	-	Silver	-	-	-	-
	3	-	-	-	-	-	-
Type		SPD/Flat Pedal	SPD	SPD	SPD/Flat Pedal	SPD	SPD/Flat Pedal
Binding		Single sided	Dual sided	Dual sided	Single sided	Single 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	✓	-	-	✓	-	-
	CL-MT001	-	-	-	-	-	-
Optional cleat	SM-SH51	✓	-	-	✓	-	-
	SM-SH56	-	✓	✓	-	✓	✓
	CL-MT001	✓	✓	✓	✓	✓	✓
Reflector		Y41B98010	SM-PD22	SM-PD60	Integrated	SM-PD62	SM-PD70B
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Resin
	Finish	Painted	Polished (silver)/Painted (black)/Painted (white)	Painted	Anodized	Painted	-
Cage	Material	Steel	-	-	-	-	-
Stack height (mm)		18	17.0	16.7	17.0	17.2	16.4
Pedal center (mm)		55	55	55	55	55	61
Average weight (g)		533 (/pair)	373 (/pair)	485 (/pair)	433 (/pair)	279 (/pair)	498 (/pair)
Note				1.0 mm cleat spacer included		1.0 mm cleat spacer included	

Pedals (SPD)

Series		SHIMANO	SHIMANO
Model no.		PD-EH500	PD-ED500
Color	1	Dark gray	Dark gray
	2	-	-
	3	-	-
Type		SPD/Flat Pedal	SPD
Binding		Single sided	Dual sided
Pedal axle material		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	✓	✓
	CL-MT001	-	-
Optional cleat	SM-SH51	✓	✓
	SM-SH56	-	-
	CL-MT001	✓	✓
Reflector		SM-PD68	SM-PD60
Pedal body	Material	Aluminum	Aluminum
	Finish	Painted	Painted (dark gray)
Cage	Material	-	-
Stack height (mm)		17.4	17.5
Pedal center (mm)		55	55
Average weight (g)		379 (/pair)	443 (/pair)
Note		Light action	Light action

Pedals (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	✓
	CL-MT001	-
Optional cleat	SM-SH51	✓
	SM-SH56	-
	CL-MT001	✓
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		

Pedals (Flat Pedal)

Series		SAINT	DEORE XT	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		PD-G8040	PD-M8240	PD-GR500	PD-GR400	PD-EF202	PD-EF205
Color	1	Series color	Black	Black	Black	Black	Black
	2	-	-	Silver	Blue	Silver	Silver
	3	-	-	-	Red	Red	Red
	4	-	-	-	Orange	Blue	Blue
	5	-	-	-	Purple	Gold	Gold
	6	-	-	-	Green	-	-
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-PD70	SM-PD70	SM-PD64A	SM-PD70	SM-PD69	SM-PD69
Pedal body	Material	Aluminum+Carbon composite	Aluminum	Aluminum	Resin	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	-	Painted	Painted
Cage	Material	-	-	-	-	-	-
Wide platform		-	-	-	-	-	-
Stack height (mm)		-	-	9.4	8	10.8	10.8
Average weight (g)		393 (/pair)	426 (/pair)	533 (/pair)	395 (/pair)	512 (/pair)	612 (/pair)
Note		10 pins per platform	10 pins per platform	9 pins per platform	9 pins per platform		

Pedals (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)		401 (/pair)
Note		

Pedals (SPD-SLR)

Series		DURA-ACE	ULTEGRA
Model no.		PD-R9300	PD-R8200
Color	1	Black	Black
	2	-	-
	3	-	-
Type		SPD-SLR	SPD-SLR
Binding		Single sided	Single sided
Pedal axle material		Nickel chromoly steel	Chromoly steel
Cartridge axle		-	✓
Sealed mechanism		✓	✓
Cleat retention adjuster		✓	✓
Cleat included	CL-SL110	✓	✓
Optional cleat	CL-SL100	✓	✓
	CL-SL110	-	-
	CL-SL120	✓	✓
	CL-SL130	✓	✓
Reflector		SM-PD65	SM-PD65
Pedal body	Material	Carbon	Carbon
	Finish	-	-
Body cover material		Stainless steel	Stainless steel
Wide platform		✓	✓
Stack height (mm)		12.5	13.3
Pedal center (mm)		52	52
Road clearance (deg.)		31	33
Average weight (g)		227 (/pair) (Standard axle type), 237 (/pair) (Longer axle type)	228 (/pair) (Standard axle type), 237 (/pair) (Longer axle type)
Note		4 mm longer axle available	4 mm longer axle available

Pedals (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)		14.8	15.9	16.6	16.6	16.6
Pedal center (mm)		52	53	53	53	53
Road clearance (deg.)		35	33	31	32	30
Average weight (g)		237 (/pair) (Standard axle type) 246 (/pair) (Longer axle type)	249 (/pair) (Standard axle type) 258 (/pair) (Longer axle type)	265 (/pair)	310 (/pair)	320 (/pair)
Note		4 mm longer axle available, Hollow cleat screws	4 mm longer axle available	-	Wider spring tension range	-

E-BIKE

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Cycle Computer

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SC-EM810	SC-EM800	SC-EN700	SC-EN600	SC-EN610	SC-EN500
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Battery management system		-	First generation/ Second generation	-	Second generation	Second generation	Second generation
Mount position	Center on handlebar	-	-	-	-	✓	-
	Right on handlebar	✓	✓	-	✓	-	-
	Others	-	-	✓*1	✓*1	-	✓*1
Master unit		-	-	-	-	-	-
Wireless system		-	ANT private, Bluetooth®LE	-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
SD50 port (pcs)		0	0	0	0	0	0
SD300 port (pcs)		3	4	3	3	3	1
SD50 connector (pcs)		0	0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0	0
Back light		✓	✓	✓	✓	✓	✓
LCD size (inch)		2.2	1.6	2.2	1.6	2.8	1.4
Beep		-	✓	-	-	✓	-
Display detachable		-	-	-	-	✓	-
Display fixation		✓	✓	✓	✓	-	✓
Display change button		✓*1	✓	✓*2	-	-	✓
Assist mode change (w/o switch unit)		✓*1	✓	✓*2	-	-	✓
Reset button		-	-	-	-	-	-
Inside battery		-	✓	-	-	-	-
System on/off button		✓	-	✓	-	-	✓
Light on/off button		✓*1	-	✓*2	-	-	✓
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	✓	✓*1	✓	✓	✓	✓
	Start mode	✓	-	✓	✓	✓	-
	Automatic shift mode	✓	✓*1	✓	✓	✓	✓
	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	✓	✓	✓	✓	✓	✓*3
	Bluetooth®LE connection status	✓	✓	✓	✓	✓	-
	Assist profile	✓	-	✓	-	✓	-
Setting menu	Trip distance reset	✓	✓	✓	✓	✓	✓
	Odometer reset	-	✓	-	-	-	-
	Setting clear	✓	✓	✓	✓	✓	-
	Clock adjustment	✓	✓	✓	✓	✓	-
	Start mode	✓	-	✓	✓	✓	- *3
	Shifting advise	-	-	-	-	✓	-
	Back light on/off	✓	✓	✓	✓	✓	- *3
	Light on/off	✓	✓*2	✓	✓	✓	- *3
	Back light brightness	✓	✓	✓	✓	✓	-
	Beep on/off	-	✓	-	-	✓	-
	Unit (km/mile)	✓	✓	✓	✓	✓	✓*2
	Font color	-	-	-	-	-	-
	Adjusting for shift	✓	✓*1	✓	✓	✓	- *3
	Adjusting for auto shift timing	✓	-	✓	-	✓	- *3
	RD protection reset	-	✓*1	-	-	-	-
	Bluetooth®LE pairing	✓	✓	✓	✓	✓	-
	Bluetooth®LE/ANT connection status	-	-	-	-	-	-
	Assist customize	-	✓	-	-	-	-
	Assist profile select	✓	✓	✓	✓	✓	-
Language	English	✓	✓	✓	✓	✓	✓
	German	✓	✓	✓	✓	✓	-
	Dutch	✓	✓	✓	✓	✓	-
	French	✓	✓	✓	✓	✓	-
	Spanish	✓	✓	✓	✓	✓	-
	Italian	✓	✓	✓	✓	✓	-
Average weight (g)		42	39	34	24 (w/o clamp band) 36 (w/ ø31.8 clamp band) 37 (w/ ø35.0 clamp band)	97	40
Note		*1 Function can be customizable by E-TUBE PROJECT. Clamp band diameter : 31.8mm and 35.0 mm	2 spec of clamp band diameter 31.8 and 35.0 mm. *1 In case of Di2 *2 In combination with assist mode switch	*1 Integration for TOP TUBE *2 Function can be customizable by E-TUBE PROJECT.	2 spec of clamp band diameter 31.8 and 35.0 mm. *1 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	*1 Left on handlebar (normal specification and I-SPEC EV specification) *2 Setting by E-TUBE PROJECT *3 Drive unit setting by E-TUBE PROJECT

Cycle Computer

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SC-E7000	SC-E6100	SC-E5000	SC-E5003	EW-EN100
Color	1	Black	Black	Black	Black	Black
	2	-	-	-	-	-
	3	-	-	-	-	-
Battery management system		First generation	First generation	First generation	First generation	First generation
Mount position	Center on handlebar	-	✓	-	-	-
	Right on handlebar	✓	-	-	-	-
	Others	-	-	✓ *1	✓ *1	✓
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)		4	3	1	0	2
SD300 port (pcs)		0	0	0	1	0
SD50 connector (pcs)		0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0
Back light		✓	✓	✓	✓	-
LCD size (inch)		1.39	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	✓ *2	✓ *2	-	-	-
	Average speed	✓ *2	✓ *2	-	-	-
	Trip distance	✓	✓	✓	✓	-
	Trip time	✓ *2	✓ *2	-	-	-
	Odometer	✓	✓	✓	✓	-
	Estimated range	✓	✓	✓	✓	-
	Range overview	-	✓	-	-	-
	Assist power indicator	-	✓	-	-	-
	Error message	✓	✓	✓	✓	✓
	Cadence (rpm)	✓ *2	✓ *2	-	-	-
	Human output power	-	-	-	-	-
	Calorie	-	-	-	-	-
	Shifting advice	-	✓	-	-	-
	Maintenance alert	✓	✓	✓ *3	✓ *3	-
	Bluetooth®LE connection status	✓	✓	-	-	-
	Assist profile	-	-	-	-	-
Setting menu	Trip distance reset	✓	✓	✓	✓	-
	Odometer reset	-	-	-	-	-
	Setting clear	-	✓	-	-	-
	Clock adjustment	✓	✓	-	-	-
	Start mode	✓	✓	- *3	- *3	-
	Shifting advise	-	✓	-	-	-
	Back light on/off	-	✓	- *3	- *3	-
	Light on/off	✓	-	- *3	- *3	-
	Back light brightness	-	✓	-	-	-
	Beep on/off	✓	✓	-	-	-
	Unit (km/mile)	✓	✓	✓ *2	✓ *2	-
	Font color	✓	✓	-	-	-
	Adjusting for shift	✓ *1	✓ *1	- *3	- *3	✓ *1
	Adjusting for auto shift timing	✓ *1	✓ *1	- *3	- *3	-
	RD protection reset	✓ *1	✓ *1	-	-	✓ *1
	Bluetooth®LE pairing	✓	✓	-	-	✓
	Bluetooth®LE/ANT connection status	-	-	-	-	-
	Assist customize	-	-	-	-	-
	Assist profile select	✓	✓	-	-	-
Language	English	✓	✓	✓	✓	-
	German	✓	✓	-	-	-
	Dutch	✓	✓	-	-	-
	French	✓	✓	-	-	-
	Spanish	✓	✓	-	-	-
	Italian	✓	✓	-	-	-
Average weight (g)		32	110	40	39	6
Note		*1 In case of SEIS *2 Option by E-TUBE PROJECT	*1 In case of SEIS *2 Option by E-TUBE PROJECT	*1 Left on handlebar (normal specification and I-SPEC EV specification) *2 Setting by E-TUBE PROJECT *3 Drive unit setting by E-TUBE PROJECT	*1 Left on handlebar (normal specification and I-SPEC EV specification) *2 Setting by E-TUBE PROJECT *3 Drive unit setting by E-TUBE PROJECT	*1 Set by switch operation in case of SEIS

Switch Unit

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			SW-EM800-L	SW-EN601-L	SW-EN600-L	SW-EN600-R	SW-E8000-L	SW-E7000-L
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
Usage			For assist	For assist	For assist	For SEIS shift	For assist	For assist
Right SW			-	-	-	✓	-	-
Left SW			✓	✓	✓	-	✓	✓
Button numbers (pcs)			2	5	5	3	2	2
Master unit			-	-	-	-	-	-
Firmware update by E-TUBE PROJECT			✓	✓	✓	✓	✓	✓
SD50 port (pcs)			0	0	0	0	1	0
SD300 port (pcs)			1	1	1	1	0	0
SD50 connector (pcs)			0	0	0	0	0	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		✓ *1	✓	-	✓ *1	✓	✓
LED	Battery level		-	✓	✓	-	-	-
	Assist status		-	✓	✓	-	-	-
Wireless function	Bluetooth® LE custom (*)	Di2 data items	-	-	✓	-	-	-
		SHIMANO E-BIKE SYSTEMS data items	-	-	✓	-	-	-
	ANT private (**)	Di2 data items	-	-	✓	-	-	-
		SHIMANO E-BIKE SYSTEMS data items	-	-	✓	-	-	-
Average weight (g)			24.5	-	24	22	93.2	** 23.9
Note * Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. ** Compatible with ANT+ cycle computer but not freely open profile.			*1 Set by E-TUBE PROJECT	[1]CLAMP BAND DIAMETER 22.2mm, [2]CLAMP BAND DIAMETER 35.0mm(W/31.8MM ADAPTER)		*1 Available for rear derailleur		

Switch Unit

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			SW-E7000-R	SW-E6010-L	SW-E6010-R	SW-E6000
Switch type			-	-	-	-
Color	1		Black	Black	Black	Black
	2		-	-	-	-
	3		-	-	-	-
Battery management system			First generation	First generation	First generation	First generation
Usage			For SEIS shift	For assist	For SEIS shift	For assist/SEIS shift *1
Right SW			✓	-	✓	✓
Left SW			-	✓	-	✓
Button numbers (pcs)			2	3	3	3
Master unit			-	-	-	-
Firmware update by E-TUBE PROJECT			✓	✓	✓	✓
SD50 port (pcs)			0	0	0	0
SD300 port (pcs)			0	0	0	0
SD50 connector (pcs)			1	1	1	1
SD300 connector (pcs)			0	0	0	0
System On-Off			-	-	-	-
Assist mode change			-	✓	-	✓
Display change			-	✓	✓	✓ *1
Automatic/manual change			✓	✓	✓	✓ *1
Light On-Off			-	- *1	-	✓ *1
Multiple input	2 step		-	-	-	-
	Hold		✓	-	✓ *1	-
LED	Battery level		-	-	-	-
	Assist status		-	-	-	-
Wireless function	Bluetooth® LE custom (*)	Di2 data items	-	-	-	-
		SHIMANO E-BIKE SYSTEM S data items	-	-	-	-
	ANT private (**)	Di2 data items	-	-	-	-
		SHIMANO E-BIKE SYSTEM S data items	-	-	-	-
Average weight (g)			** 23.9	31.3	31.3	25.5
Note * Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. ** Compatible with ANT+ cycle computer but not freely open profile.			* Available for rear derailleur ** Cable length 700 mm spec. Cable length: 400 mm, 300 mm, 700 mm	*1 By Setting Menu	*1 Available for rear derailleur	*1 Set by E-TUBE PROJECT

Drive Unit

Series		EP8	EP8	EP8	EP8	EP8	EP8
Model no.		DU-EP810	DU-EP810-CAN	DU-EP801	DU-EP801-CRG	DU-EP800	DU-EP800-CRG
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
UL2849		✓	✓	✓	✓	-	-
Battery management system		-	-	Second generation	Second generation	First generation	First generation
Compatible brake type		Disc brake	Disc brake	Disc brake	Disc brake	Disc brake	Disc brake
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position		Mid-ship	Mid-ship	Mid-ship	Mid-ship	Mid-ship	Mid-ship
Compatible wheel size (mm)		1300-3000	1300-3000	1300-3000 *1	1300-3000 *1	1300-3000 *2	1300-3000 *2
Continuous rated power (Watt)		250	250	250	250	250	250
Maximum torque (Nm)		100	100	85	85	85	85
Maximum assist support(%)		400	400	400	400	400	400
Rated voltage		43 V DC	43 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	✓	✓	✓ *1	✓ *1	✓ *2	✓ *2
	20 mph	✓	✓	✓ *1	✓ *1	✓ *2	✓ *2
	28 mph	✓ *1	✓ *1	✓ *5	✓ *5	-	-
	Other	-	-	-	-	-	-
	Adjustment	✓	✓	-	-	✓ *1	-
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	-	-	✓	✓	-	-
	CRUISE	✓	✓	-	-	-	-
	ECO	✓	✓	✓	✓	✓	✓
Power supply for front light		13.5 V DC	13.5 V DC	13.5 V DC	13.5 V DC	13.5 V DC	13.5 V DC
Power supply for rear light		13.5 V DC	13.5 V DC	13.5 V DC	13.5 V DC	13.5 V DC	13.5 V DC
Maximum current supply front and rear light total (A)		2A	2A	2.0	2.0	2.0	2.0
Power supply and maximum current for ACC		13.5 V DC / 2 A	13.5 V DC / 2 A	13.5 V DC / 2 A	13.5 V DC / 2 A	-	-
Power supply and maximum current for CAN port		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	-	-
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	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		✓	✓	✓	✓	✓	✓
Slope sensor		✓	✓	-	-	-	-
Crank arm position sensor		✓	✓	✓	✓	✓	✓
Bike speed sensor		✓	✓	✓ *3	✓ *3	✓ *3	✓ *3
Cadence sensor		✓	✓	✓	✓	✓	✓
Walk assist function	On/Off	✓	✓	✓ *1	✓ *1	✓ *2	✓ *2
	Standard	-	-	-	-	-	-
	Intelligent	✓ *3	✓ *3	✓ *4	✓ *4	✓ *1	✓ *1
	Quick	✓	✓	✓	✓	✓	✓
Automatic shift	Internal geared hub 11-speed	-	-	-	-	-	-
	Internal geared hub 8-speed	✓ *3	✓ *3	✓ *4	✓	✓ *1	✓ *1
	Internal geared hub 7-speed	-	-	-	-	-	-
	Internal geared hub 5-speed (INTER-5E)	✓ *3	✓ *3	✓ *4	✓	✓ *1	✓ *1
	Rear derailleur	✓ *3	✓ *3	✓ *4	✓	-	-
SYMPHOMATIC	Internal geared hub	✓ *3	✓ *3	✓	✓	✓ *1	✓ *1
	Rear derailleur	✓ *3	✓ *3	✓	✓	-	-
FREE SHIFT		✓	✓	✓	✓	-	-
Electronic shift by drive unit control		✓ *3	✓ *3	✓	✓	-	-
Compatible spindle type		24 mm narrow	24 mm narrow	24 mm narrow	24 mm narrow	24 mm narrow	24 mm narrow
Drive unit fixing screw (pcs)		6	6	6	6	6	6
Average weight (g)		2320	2320	2800	2800	2700	2700
Note		*1 US Class3(comply with California) *2 AUX:1, For accessory unit *3 Combination with Di2 shifting unit. Wireless unit is connected to Drive unit for wireless function.	*1 US Class3(comply with California) *2 AUX:1, For CAN unit and accessory unit *3 Combination with Di2 shifting unit. Wireless unit is connected to Drive unit for wireless function.	**Can be selected by E-TUBE PROJECT Factory. Boost/Trail/Eco or High/Normal/Eco *1 Set by E-TUBE PROJECT *2 CAN translation:1 AUX:1 *3 In combination with EW-SS300/SS301/SS302 *4 In case of Di2 *5 US Class 3 (comply with California) only	For CARGO bike **Can be selected by E-TUBE PROJECT Factory. Boost/Trail/Eco or High/Normal/Eco *1 Set by E-TUBE PROJECT *2 CAN translation:1 AUX:1 *3 In combination with EW-SS300/SS301/SS302 *4 In case of Di2 *5 US Class 3 (comply with California) only	*1 In case of Di2 *2 Set by E-TUBE PROJECT *3 By using EW-SS300 EW-SS301	*1 In case of Di2 *2 Set by E-TUBE PROJECT *3 By using EW-SS300 EW-SS301

Drive Unit

Series		EP6	EP6	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-EP600	DU-EP600-CRG	DU-EP500	DU-E8000	DU-E8080	DU-E7000
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
UL2849		✓	✓	-	-	-	-
Battery management system		Second generation	Second generation	Second generation	First generation	First generation	First generation
Compatible brake type		Disc brake	Disc brake	V-BRAKE, Roller brake, Disc brake, Coaster brake	Disc brake/V-BRAKE	Disc brake	Disc brake/V-BRAKE
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position		Mid-ship	Mid-ship	Mid-ship	Mid-ship	Mid-ship	Mid-ship
Compatible wheel size (mm)		1300-3000 *1	1300-3000 *1	1300-3000	1300-3000 *1	1300-3000 *1	1300-3000 *1
Continuous rated power (Watt)		250	250	250	250	250	250
Maximum torque (Nm)		85	85	60	70	70	60
Maximum assist support(%)		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	✓	✓	✓	✓ *1	✓ *1	✓
Maximum support bike speed	24 km/h	-	-	-	-	✓	✓ *1
	25 km/h	✓ *1	✓ *1	✓	✓ *1	-	✓ *1
	20 mph	✓ *1	✓ *1	✓	✓ *1	-	✓ *1
	28 mph	✓ *5	✓ *5	✓ *4	-	-	-
	Other	-	-	-	-	-	-
	Adjustment	-	-	-	-	-	✓ *1
Riding characteristics	Dynamic	-	-	-	✓ *1	-	✓ *1
	Explorer	-	-	-	✓ *1	-	✓ *1
	Customize	-	-	-	✓ *1	-	✓ *1
	Sportive/Light off-road	-	-	-	-	-	-
	Comfort	-	-	-	-	✓	-
	Basic mode	✓	✓	✓	-	-	-
	Finetune mode	✓	✓	✓	-	-	-
Assist customize	Number of profile	2	2	2	1	1	1
Assist mode	BOOST	✓	✓	✓	✓	-	✓
	HIGH	✓	✓	✓	-	✓	-
	TRAIL	✓	✓	✓	✓	-	✓
	NORMAL	✓	✓	✓	-	✓	-
	CRUISE	-	-	-	-	-	-
	ECO	✓	✓	✓	✓	✓	✓
Power supply for front light		13.5 V DC	13.5 V DC	13.5 V DC	6 V DC	6 V DC	13.5 V DC
Power supply for rear light		13.5 V DC	13.5 V DC	13.5 V DC	6 V DC	6 V DC	13.5 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 A	13.5 V DC / 2 A	-	-	-	-
Power supply and maximum current for CAN port		13.5 V DC / 2.0 A	13.5 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	2	2	2
SD300 port (pcs)		3	3	2	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)		2 *2	2 *2	0	0	0	0
Port for Speed Sensor (pcs)	SD50 type	0	0	0	1	1	1
	SD300 type	1	1	1	0	0	0
Chain case compatible		✓	✓	✓	-	-	-
Chain device compatible		✓	✓	✓	✓	✓	✓
Torque sensor		✓	✓	✓	✓	✓	✓
Slope sensor		-	-	-	-	-	-
Crank arm position sensor		✓	✓	✓	✓	✓	✓
Bike speed sensor		✓ *3	✓ *3	✓ *2	✓ *2	✓ *2	✓ *2
Cadence sensor		✓	✓	✓	✓	✓	✓
Walk assist function	On/Off	✓ *1	✓ *1	✓ *1	✓	-	✓ *1
	Standard	-	-	-	✓	-	-
	Intelligent	✓ *4	✓ *4	✓ *3	✓ *3	-	✓ *2
	Quick	✓	✓	✓	✓	-	✓
Automatic shift	Internal geared hub 11-speed	-	-	-	-	-	-
	Internal geared hub 8-speed	✓ *4	✓	✓ *3	-	-	-
	Internal geared hub 7-speed	-	-	-	-	-	-
	Internal geared hub 5-speed (INTER-5E)	✓ *4	✓	✓ *3	-	-	-
	Rear derailleur	✓ *4	✓	✓ *3	-	-	-
SYMPHOMATIC	Internal geared hub	✓	✓	✓	-	-	-
	Rear derailleur	✓	✓	✓	-	-	-
FREE SHIFT		✓	✓	-	-	-	-
Electronic shift by drive unit control		✓	✓	✓	-	-	-
Compatible spindle type		24 mm narrow	24 mm narrow	24 mm narrow	24 mm	24 mm	24 mm
Drive unit fixing screw (pcs)		6	6	6	-	-	-
Average weight (g)		3000	3000	3000	2900	2900	2800
Note		**Can be selected by E-TUBE PROJECT Factory. Boost/Trail/Eco or High/Normal/Eco *1 Set by E-TUBE PROJECT *2 CAN translation:1 AUX:1 *3 In combination with EW-SS300/SS301/SS302 *4 In case of Di2 *5 US Class 3 (comply with California) only	**Can be selected by E-TUBE PROJECT Factory. Boost /Trail/Eco or High/Normal/Eco *1 Set by E-TUBE PROJECT *2 CAN translation:1 AUX:1 *3 In combination with EW-SS300/SS301/SS302 *4 In case of Di2 *5 US Class 3 (comply with California) only	** Can be selected by E-TUBE PROJECT Factory *1 Set by E-TUBE PROJECT *2 In combination with EWSS300/SS301/SS302 *3 In case of Di2 *4 US Class3(comply with California)only	*1 Set by E-TUBE PROJECT *2 By using SM-DUE10/SM-DUE11 *3 By using RD-M9050/RD-M8050	*1 Set by E-TUBE PROJECT *2 By using SM-DUE11	*** By using RD-M9050/RD-M8050 *1 Set by E-TUBE PROJECT *2 By using SM-DUE10/SM-DUE11

Drive Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-E6100	DU-E6100-CRG	DU-E6110	DU-E6180	DU-E5100	DU-E5000
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
UL2849		-	-	-	-	-	-
Battery management system		First generation	First generation	First generation	First generation	First generation	First generation
Compatible brake type		V-BRAKE, Roller brake, Disc brake	Disc brake	Coaster brake	V-BRAKE, Roller brake, Disc brake	V-BRAKE, Roller brake, Disc brake, Coaster brake	V-BRAKE, Roller brake, Disc brake, Coaster brake
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position		Mid-ship	Mid-ship	Mid-ship	Mid-ship	Mid-ship	Mid-ship
Compatible wheel size (mm)		1300-3000 *1	1300-3000 *2	1300-3000 *1	1300-3000 *1	1300-3000	1300-3000 *1
Continuous rated power (Watt)		250	250	250	250	250	250
Maximum torque (Nm)		60	60	60	60	50	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	✓ *1	-	-	✓	-	-
	25 km/h	✓ *1	✓ *2	✓ *1	-	✓	✓ *1
	20 mph	✓ *1	✓ *2	✓ *1	-	✓	✓ *1
	28 mph	-	-	-	-	-	-
	Other	-	-	-	-	-	-
	Adjustment	✓ *1	✓ *2	✓ *1	✓ *1	-	✓ *1
Riding characteristics	Dynamic	-	-	-	-	-	-
	Explorer	-	-	-	-	-	-
	Customize	-	-	-	-	-	-
	Sportive/Light off-road	✓ *1	✓ *2	✓ *1	✓ *1	✓	✓ *1
	Comfort	✓ *1	✓ *2	✓ *1	✓ *1	✓	✓
	Basic mode	-	-	-	-	-	-
	Finetune mode	-	-	-	-	-	-
Assist customize	Number of profile	1	1	1	1	1	1
Assist mode	BOOST	-	-	-	-	-	-
	HIGH	✓	✓	✓	✓	✓	✓
	TRAIL	-	-	-	-	-	-
	NORMAL	✓	✓	✓	✓	✓	✓
	CRUISE	-	-	-	-	-	-
	ECO	✓	✓	✓	✓	✓	✓
Power supply for front light		13.5 V DC	13.5 V DC	13.5 V DC	13.5 V DC	13.5 V DC	13.5 V DC
Power supply for rear light		13.5 V DC	13.5 V DC	13.5 V DC	13.5 V DC	13.5 V DC	13.5 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	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
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		✓	✓	✓	✓	✓	✓
Slope sensor		-	-	-	-	-	-
Crank arm position sensor		✓	✓	✓	✓	-	-
Bike speed sensor		✓ *2	✓ *3	✓ *2	✓ *2	✓ *2	✓ *2
Cadence sensor		✓	✓	✓	✓	-	-
Walk assist function	On/Off	✓ *1	✓ *2	✓ *1	-	✓ *1	✓ *1
	Standard	-	-	-	-	-	-
	Intelligent	✓ *3	✓ *1	✓ *3	-	✓ *3	✓ *3
	Quick	✓	✓	✓	-	✓	✓
Automatic shift	Internal geared hub 11-speed	-	-	-	-	-	-
	Internal geared hub 8-speed	✓	✓	✓	✓	✓ *3	✓
	Internal geared hub 7-speed	-	-	-	-	-	-
	Internal geared hub 5-speed (INTER-5E)	✓	✓	✓	✓	✓ *3	✓
	Rear derailleur	-	-	-	-	-	-
SYMPHOMATIC	Internal geared hub	✓	✓	✓	✓	✓	✓
	Rear derailleur	-	-	-	-	-	-
FREE SHIFT		-	-	-	-	-	-
Electronic shift by drive unit control		-	-	-	-	✓	✓
Compatible spindle type		24 mm	24 mm	24 mm	24 mm	Square	Square
Drive unit fixing screw (pcs)		-	-	-	-	6	-
Average weight (g)		2800	2800	2700	2900	2400	2400
Note		*1 Set by E-TUBE PROJECT *2 By using SM-DUE10/SM-DUE11 *3 Only in combination with Di2	*1 In case of DI2 *2 Set by E-TUBE PROJECT *3 By using SM-DUE10/SM-DUE11	*1 Set by E-TUBE PROJECT *2 By using SM-DUE10/SM-DUE11 *3 Only in combination with Di2	*1 Set by E-TUBE PROJECT *2 By using SM-DUE10/SM-DUE11	*1 Set by E-TUBE PROJECT *2 In combination with SM-DUE10/SM-DUE11 *3 Only in combination with Di2	*1 Set by E-TUBE PROJECT *2 By using SM-DUE10/SM-DUE11 *3 Only in combination with Di2

Drive Unit

Series		SHIMANO	SHIMANO
Model no.		DU-E5080	DU-E5080-H
Color	1	Black	Black
	2	-	-
	3	-	-
UL2849		-	-
Battery management system		First generation	First generation
Compatible brake type		V-BRAKE, Roller brake, Disc brake, Coaster brake	V-BRAKE, Roller brake, Disc brake, Coaster brake
Motor type		Brushless motor	Brushless motor
Position		Mid-ship	Mid-ship
Compatible wheel size (mm)		1300-3000 *1	1300-3000 *1
Continuous rated power (Watt)		250	250
Maximum torque (Nm)		40	40
Maximum assist support(%)		-	-
Rated voltage		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	✓ *1	✓ *1
Riding characteristics	Dynamic	-	-
	Explorer	-	-
	Customize	-	-
	Sportive/Light off-road	-	✓
	Comfort	✓	-
	Basic mode	-	-
	Finetune mode	-	-
Assist customize	Number of profile	1	1
Assist mode	BOOST	-	-
	HIGH	✓	✓
	TRAIL	-	-
	NORMAL	✓	✓
	CRUISE	-	-
	ECO	✓	✓
Power supply for front light		13.5 V DC	13.5 V DC
Power supply for rear light		13.5 V DC	13.5 V DC
Maximum current supply front and rear light total (A)		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
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
Terminal for light (pcs)		1	1
Port for electric devices (pcs)		0	0
Port for Speed Sensor (pcs)	SD50 type	1	1
	SD300 type	0	0
Chain case compatible		✓	✓
Chain device compatible		-	-
Torque sensor		✓	✓
Slope sensor		-	-
Crank arm position sensor		-	-
Bike speed sensor		✓ *2	✓ *2
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		Square	Square
Drive unit fixing screw (pcs)		-	-
Average weight (g)		2400	2400
Note		*1 Set by E-TUBE PROJECT *2 By using SM-DUE10/SM-DUE11	*1 Set by E-TUBE PROJECT *2 By using SM-DUE10/SM-DUE11

Drive Unit Cover

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DC-EP810-A	DC-EP810-G	DC-EP801-A	DC-EP801-B	DC-EP801-G	DC-EP800-A
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
UL2849		-	-	✓	✓	- "Not Applicable"	-
Cover	Right	✓	-	-	-	-	-
	Left	-	-	✓	✓	-	✓
	Bottom	-	✓	-	-	✓	-
	Front	-	-	-	-	-	-
	Connector	-	-	-	-	-	-
Available drive unit angle (deg.)		0-70	0-70	0-60	0-60	0-60	0-60
Note		-	-				-

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DC-EP800-B	DC-EP800-G	SM-DUE80-A	SM-DUE80-B	SM-DUE70-A	SM-DUE70-B
Color	1	Black	Black	Gray	Gray	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
UL2849		-	-	-	-	-	-
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-DUE70-C	SM-DUE61-T	SM-DUE61-TCRG	SM-DUE61-TC	SM-DUE61-C	SM-DUE61-CCRG
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
UL2849		-	-	-	-	-	-
Cover	Right	-	✓	✓	✓	✓	✓
	Left	✓	✓	✓	✓	✓	✓
	Bottom	-	-	-	-	-	-
	Front	-	-	-	-	-	-
	Connector	-	-	-	-	-	-
Available drive unit angle (deg.)		0-60	0-60	0-60	0-60	0-60	0-60
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-DUE61-CC	SM-DUE60	SM-DUE60-45	SM-DUE60-A	SM-DUE60-45A	SM-DUE50-T
Color	1	Black	Gray	Gray	Gray	Gray	Black
	2	-	Black	Black	Black	Black	-
	3	-	-	-	-	-	-
UL2849		-	-	-	-	-	-
Cover	Right	✓	✓	✓	✓	✓	✓
	Left	✓	-	-	-	-	✓
	Bottom	-	-	-	-	-	-
	Front	-	-	-	-	-	-
	Connector	-	-	-	-	-	-
Available drive unit angle (deg.)		0-60	0	45	0	45	0-60
Note		-	-	-	For internal cable routing	For internal cable routing	-

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		SM-DUE50-TC	SM-DUE50-C	SM-DUE50-CC
Color	1	Black	Black	Black
	2	-	-	-
	3	-	-	-
UL2849		-	-	-
Cover	Right	-	✓	-
	Left	✓	✓	✓
	Bottom	-	-	-
	Front	-	-	-
	Connector	-	-	-
Available drive unit angle (deg.)		0-60	0-60	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 adapter for 6-bolt rotor(SM-EWSS1)	-	✓	-	✓	-
	Magnet adapter for center lock rotor(SM-EWSS2)	-	✓	-	✓	-
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

Rotor (CENTER LOCK)

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			RT-EM910	RT-EM810	RT-EM600	RT-EM300
ICE TECHNOLOGIES			✓	✓	-	-
ICE TECHNOLOGIES FREEZA			✓	✓	-	-
ICE TECHNOLOGIES FREEZA w/ heat dissipation paint			-	-	-	-
Outside diameter (mm)	220		-	-	-	-
	203		✓ *1	✓ *1	✓ *1	✓ *1
	200		-	-	-	-
	180		✓ *1	✓ *1	✓ *1	✓ *1
	160		✓ *1	✓ *1	✓ *1	✓ *1
	140		-	-	-	-
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
Rotor thickness	Standard 1.75(mm)		✓	✓	✓	✓
	Thick 2.2(mm)		-	-	-	-
Pad material compatibility	Metal		✓	✓	✓	-
	Resin		✓	✓	✓	✓
Pad lining shape compatibility	Narrow		✓	✓	✓	✓
	Wide		-	-	-	✓
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
	Internal type with Magnet for EW-SS302	Material	-	-	-	-
		Finish	-	-	-	-
	Internal/ external type with longer thread for SM-EWSS2	Material	-	-	-	-
		Finish	-	-	-	-
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			*1 For rear only with magnet bracket Painted fin	*1 For rear only with magnet bracket	*1 For rear only with magnet bracket	*1 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-M8200-E	FC-M8150	FC-MT820-E
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	177 (DU-EP800)	177
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		24 mm narrow	24 mm narrow	24 mm narrow	24 mm	24 mm narrow	24 mm
Average weight (g)		-	-	-	-	-	-
Note		-	-	-	-	-	-

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-E8050	FC-E8000	FC-E6100	FC-E5000	FC-E5010	FC-UT600-ISIS
Color	1	Black	Black	Silver	Silver	Black	Black
	2	-	-	Black	-	-	-
	3	-	-	-	-	-	-
Crank arm type	HOLLOWTECH	✓	-	-	-	-	-
	Solid	-	✓	✓	✓	✓	✓
Q factor (mm)		177, 180 *1	177, 180 *1	180	185	185	- *1
Chain case compatible		✓ * *1	✓ * *1	✓	✓	✓	- *2
Crank arm length (mm)	175	✓	✓	✓	✓	✓	-
	172.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	165	-	✓	-	✓	✓	✓
	160	-	✓	-	-	-	✓
	Others	-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Anodized	Painted	Painted	Anodized
BB type		24 mm	24 mm	24 mm	Square	Square	BOSCH ISIS Drive
Average weight (g)		-	-	-	-	-	-
Note		*1 In case with DU-E6100/E6110/E6180/E7000	*1 In case with DU-E6100/E6110/E6180/E7000	-	-	-	*1 It depends on type of BOSCH drive unit. *2 It depends on chain case dimension.

Crank Arm

Series		SHIMANO
Model no.		FC-UT610-E
Color	1	Black
	2	-
	3	-
Crank arm type	HOLLOWTECH	-
	Solid	✓
Q factor (mm)		177
Chain case compatible		-
Crank arm length (mm)	175	-
	172.5	-
	170	✓
	165	✓
	160	✓
	Others	-
Crank arm	Material	Aluminum
	Finish	Anodized
BB type		24 mm
Average weight (g)		-
Note		-

Chainring

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		CR-EM810-12-B	CR-EM800	CR-ET600	SM-CRE80-12-B	SM-CRE80-12-SB	SM-CRE80-B
Color	1	Black	Black	Silver (w/o chain guard)	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	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*
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		✓	✓	-	✓	✓	✓
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	96	104	104	104	104
Chainring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	-	Anodized	Anodized	Anodized
Chainring fixing bolt	Material	Steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Painted	SP Black	-	SP Black	SP Black	SP Black
Spider/gear arms		4	4	4	4	4	4
Average weight (g)		-	-	-	-	-	-
Note		* 55 mm chain line only		* 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-R	SM-CRE80	SM-CRE70-12-B	SM-CRE70-12	SM-CRE70-B	SM-CRE70
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	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*	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*
DYNAMIC CHAIN ENGAGEMENT+		-	✓ (38T, 34T)	-	-	-	-
Chainring teeth	Combination	-	-	-	-	-	-
	47T	✓	-	-	-	-	-
	44T	-	✓	-	-	-	-
	42T	-	-	-	✓	-	-
	40T	-	-	-	-	-	-
	38T	-	✓	-	-	-	✓
	36T	-	-	✓	-	-	-
	34T	-	✓	-	-	✓	-
	32T	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Chain guard type	Double	-	✓ *1	-	✓	-	✓
	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)		104	104	104	104	104	104
Chainring	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Anodized	Plated	Painted	Painted	Painted	Painted
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum (chain line: 55 mm), Steel (chain line: 53 mm)	Aluminum
	Finish	Anodized	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	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 *1 44T only			* E-BIKE rear derailleur system compatible chain	* E-BIKE rear derailleur system compatible chain * w/o CG, w/o back plate

Chainring

Series		SHIMANO	SHIMANO
Model no.		SM-CRE61	SM-CRE50
Color	1	Dark gray	Dark gray
	2	Silver (w/o CG only) *1	-
	3	Black (w/o CG only) *1	-
Gear speed		1	1
Rear speed	12-speed	-	-
	11-speed	✓	✓
	10-speed	✓	✓
	9-speed	✓	✓
	8-speed		
	7-speed		
	5-speed		
	Single	✓	✓
Compatible Chain		HG-X 10-speed**, HG 9-speed**, HG 8/7/6-speed, Single speed	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	Included in drive unit
Arm cover outer diameter (mm)		95 (w/o chain guard only)	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	Steel
	Finish	Painted	Painted
Spider arm	Material	-	-
	Finish	-	-
Chainring fixing bolt	Material	Stainless steel	Stainless steel
	Finish	-	-
Spider/gear arms		4	4
Average weight (g)		-	-
Note		** E-BIKE rear derailleur system compatible chain *1 Color of arm cover	* E-BIKE rear derailleur system compatible chain

Chain Device

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		CD-EM800-A	CD-EM800	SM-CDE80	SM-CDE70
Color	1	Black	Black	Black	Black
	2	-	-	-	-
	3	-	-	-	-
Chain line (mm)	56.5	✓* (w/ plate type), ✓ (w/o plate type)	✓* (w/ plate type), ✓ (w/o plate type)	-	-
	55	✓** (w/ plate type), ✓ (w/o plate type)	✓** (w/ plate type), ✓ (w/o plate type)	-	-
	53	✓ (w/ plate type), ✓ (w/o plate type)	✓ (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	✓	✓	✓	✓
	36T	✓	✓	✓	✓
	34T	✓	✓	✓	✓
	32T	- (w/ plate type), ✓ (w/o plate type)	- (w/ plate type), ✓ (w/o plate type)	-	-
	30T	- (w/ plate type), ✓ (w/o plate type)	- (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)	✓ (w/ plate type), - (w/o plate type)	✓
Compatible drive unit		DU-EP801, DU-EP800, DU-E6000, DU-E8000, DU-E8080, DU-E7000	DU-EP801, DU-EP800, DU-E6000, 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	0 - 170
Back plate	Material	Aluminum (w/ plate type), - (w/o plate type)	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)	Anodized (w/ plate type), - (w/o plate type)	Painted
Chain guide	Material	Resin	Resin	Resin	Resin
	Finish	-	-	-	-
Note		* w/ spacer for chain line 56.5mm. ** w/ spacer for chain line 55mm.	* 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-EN827	BT-EN817-B	BT-EN805-A	BT-EN805-L-A	BT-EN806-A	BT-EN604-A
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		✓	✓	✓	✓	✓	✓
UL2271		✓	✓	✓	✓	✓	-
Battery management system		-	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	Integrated	Down tube/Seat tube
Nominal voltage (V)		43.68	36.3	36	36	36	36
Capacity (Ah)		16.7	19.6	14	14	17.5	11.6
Rated capacity (Ah)		15.99	19.6	13	13	16.2	10.9
Energy Content (Wh)		720	712	504	504	630	418
Rated capacity (Wh)		699	712	468	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)	Charger	EC-EN834	EC-EN814	EC-E8004	EC-E8004	EC-E8004	EC-E8004
	SOC = 100%	4.6	5.2	4.0 (4.5) *1	4.0 (4.5) *1	4.8 (5.7) *1	3.0 (3.5) *1
	SOC = 80%	3.2	3.4	2.5 (3.2) *1	2.5 (3.2) *1	3.2 (4.0) *1	2.0 (2.5) *1
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		-	- *1	- *2	- *2	- *2	✓
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-EN820	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
Compatible charger		EC-EN832, EC-EN834	EC-EN814	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004
Compatible adaptor for charge		SM-BTE82	SM-BTE81	SM-BTE80	SM-BTE80	SM-BTE80	-
Average weight (g)		4100	4200	3000	3100	3600	2600
Note			*1 with SM-BTE81 and EW-CP110 or EW-CP111	*1 In case of 100 V AC, refer time in ( ) *2 with SM-BTE80 or EW-CP100	*1 In case of 100 V AC, refer time in ( ) *2 with SM-BTE80 or EW-CP100	*1 In case of 100 V AC, refer time in ( ) *2 with SM-BTE80 or EW-CP100	*1 In case of 100 V AC, refer time in ( )

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-EN605-A	BT-EN606-A	BT-EN404-A	BT-EN405-A	BT-E8010-A	BT-E8014-A
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	Gray	Gray	-	-
	3	-	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		✓	✓	✓	✓	✓	✓
UL2271		✓	✓	-	-	-	-
Battery management system		Second generation	Second generation	Second generation	Second generation	First generation	First generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Down tube/Seat tube	Down tube/Seat tube	Rear carrier	Rear carrier	Down tube/Seat tube	Down tube/Seat tube
Nominal voltage (V)		36	36	36	36	36	36
Capacity (Ah)		14	17.5	11.6	14	14 *1	11.6 *1
Rated capacity (Ah)		13	16.2	10.9	13	13	10.9
Energy Content (Wh)		504	630	418	504	504 *1	418 *1
Rated capacity (Wh)		468	583	393	468	468	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)	Charger	EC-E8004	EC-E8004	EC-E8004	EC-E8004	EC-E8004	EC-E8004
	SOC = 100%	4.0 (4.5) *1	4.8 (5.7) *1	3.0 (3.5) *1	4.0 (4.5) *1	4.0 (4.5) *2	3.0 (3.5) *2
	SOC = 80%	2.5 (3.2) *1	3.2 (4.0) *1	2.0 (2.5) *1	2.5 (3.2) *1	2.5 (3.2) *2	2.0 (2.5) *2
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		✓	✓	-	-	✓	✓
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-EN600	BM-EN600	BM-EN400	BM-EN400	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 (g)		2700	3300	2700	2800	2700	2600
Note		*1 In case of 100 V AC, refer time in ( )	*1 In case of 100 V AC, refer time in ( )	*1 In case of 100 V AC, refer time in ( )	*1 In case of 100 V AC, refer time in ( )	*1 BT-E8010-A for Japan (13 Ah, 468 Wh) *2 In case of 100 V AC, refer time in ( )	*1 BT-E8014-A for Japan (10.9 Ah, 393 Wh) *2 In case of 100 V AC, refer time in ( )

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-E8016-A	BT-E8035-A	BT-E8035-L-A	BT-E8036-A	BT-E6000-A	BT-E6001-A
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	Gray	Gray
	3	-	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		✓	✓	✓	✓	✓	✓
UL2271		-	-	-	-	-	-
Battery management system		First 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		Down tube/Seat tube	Integrated	Integrated	Integrated	Rear carrier	Rear carrier
Nominal voltage (V)		36	36	36	36	36	36
Capacity (Ah)		17.5 *1	14 *1	14 *1	17.5 *1	11.6	14
Rated capacity (Ah)		16.2	13	13	16.2	11.6	13
Energy Content (Wh)		630 *1	504 *1	504 *1	630 *1	418	504
Rated capacity (Wh)		583	468	468	583	418	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)	Charger	EC-E8004	EC-E8004	EC-E8004	EC-E8004	EC-E8004	EC-E8004
	SOC = 100%	4.8 (5.7) *2	4.0 (4.5) *2	4.0 (4.5) *2	4.8 (5.7) *2	3.0 (3.5) *1	4.0 (4.5) *1
	SOC = 80%	3.2 (4.0) *2	2.5 (3.2) *2	2.5 (3.2) *2	3.2 (4.0) *2	2.0 (2.5) *1	2.5 (3.2) *1
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		✓	- *3	- *3	- *3	-	-
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-E8016	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
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
Average weight (g)		3300	3000	3100	3600	2700	2800
Note		*1 BT-E8016-A for Japan (16.2 Ah, 583 Wh) *2 In case of 100 V AC, refer time in ( )	*1 BT-E8035-A for Japan (13 Ah, 468 Wh) *2 In case of 100 V AC, refer time in ( ) *3 with SM-BTE80 or EW-CP100	*1 BT-E8035-L-A for Japan (13 Ah, 468 Wh) *2 In case of 100 V AC, refer time in ( ) *3 with SM-BTE80 or EW-CP100	*1 BT-E8036-A for Japan (16.2 Ah, 583 Wh) *2 In case of 100 V AC, refer time in ( ) *3 with SM-BTE80 or EW-CP100	*1 In case of 100 V AC, refer time in ( )	*1 In case of 100 V AC, refer time in ( )

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-EN805	BT-EN805-L	BT-EN806	BT-EN604	BT-EN605	BT-EN606
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		-	-	-	-	-	-
UL2271		-	-	-	-	-	-
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	Down tube/Seat tube	Down tube/Seat tube	Down tube/Seat tube
Nominal voltage (V)		36	36	36	36	36	36
Capacity (Ah)		14	14	17.5	11.6	14	17.5
Rated capacity (Ah)		13	13	16.2	10.9	13	16.2
Energy Content (Wh)		504	504	630	418	504	630
Rated capacity (Wh)		468	468	583	393	468	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)	Charger	EC-E8004	EC-E8004	EC-E8004	EC-E8004	EC-E8004	EC-E8004
	SOC = 100%	4.0 (4.5) *1	4.0 (4.5) *1	4.8 (5.7) *1	3.0 (3.5) *1	4.0 (4.5) *1	4.8 (5.7) *1
	SOC = 80%	2.5 (3.2) *1	2.5 (3.2) *1	3.2 (4.0) *1	2.0 (2.5) *1	2.5 (3.2) *1	3.2 (4.0) *1
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		- *2	- *2	- *2	✓	✓	✓
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-EN800-A, BM-EN800-B, BM-EN801-A, BM-EN801-B	BM-EN600	BM-EN600	BM-EN600
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	-	-	-
Average weight (g)		2900	3100	3600	2600	2600	3200
Note		*1 In case of 100 V AC, refer time in ( ) *2 with SM-BTE80 or EW-CP100	*1 In case of 100 V AC, refer time in ( ) *2 with SM-BTE80 or EW-CP100	*1 In case of 100 V AC, refer time in ( ) *2 with SM-BTE80 or EW-CP100	*1 In case of 100 V AC, refer time in ( )	*1 In case of 100 V AC, refer time in ( )	*1 In case of 100 V AC, refer time in ( )

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-EN404	BT-EN405	BT-E8010	BT-E8014	BT-E8016	BT-E8020
Color	1	Black	Black	Black	Black	Black	Black
	2	Gray	Gray	-	-	-	-
	3	-	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		-	-	-	-	-	-
UL2271		-	-	-	-	-	-
Battery management system		Second generation	Second 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	Rear carrier	Down tube/Seat tube	Down tube/Seat tube	Down tube/Seat tube	Integrated
Nominal voltage (V)		36	36	36	36	36	36
Capacity (Ah)		11.6	14	14 *1	11.6 *1	17.5 *1	14
Rated capacity (Ah)		10.9	13	13	10.9	16.2	13
Energy Content (Wh)		418	504	504 *1	418 *1	630 *1	504
Rated capacity (Wh)		393	468	468	393	583	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)	Charger	EC-E8004	EC-E8004	EC-E8004	EC-E8004	EC-E8004	EC-E8004
	SOC = 100%	3.0 (3.5) *1	4.0 (4.5) *1	4.0 (4.5) *2	3.0 (3.5) *2	4.8 (5.7) *2	4.0 (4.5) *1
	SOC = 80%	2.0 (2.5) *1	2.5 (3.2) *1	2.5 (3.2) *2	2.0 (2.5) *2	3.2 (4.0) *2	2.5 (3.2) *1
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		-	-	✓	✓	✓	✓
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-EN400	BM-EN400	BM-E8016	BM-E8016	BM-E8016	BM-E8020
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 (g)		2700	2600	2600	2600	3200	3100
Note		*1 In case of 100 V AC, refer time in ( )	*1 In case of 100 V AC, refer time in ( )	*1 BT-E8010 for Japan (13 Ah, 468 Wh) *2 In case of 100 V AC, refer time in ( )	*1 BT-E8014 for Japan (10.9 Ah, 393 Wh) *2 In case of 100 V AC, refer time in ( )	*1 BT-E8016 for Japan (16.2 Ah, 583 Wh) *2 In case of 100 V AC, refer time in ( )	*1 In case of 100 V AC, refer time in ( )

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-E8035	BT-E8035-L	BT-E8036	BT-E6000	BT-E6001
Color	1	Black	Black	Black	Black	Black
	2	-	-	-	Gray	Gray
	3	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		-	-	-	-	-
UL2271		-	-	-	-	-
Battery management system		First generation	First generation	First generation	First generation	First generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Integrated	Integrated	Integrated	Rear carrier	Rear carrier
Nominal voltage (V)		36	36	36	36	36
Capacity (Ah)		14 *1	14 *1	17.5 *1	11.6	14
Rated capacity (Ah)		13	13	16.2	10.9	13
Energy Content (Wh)		504 *1	504 *1	630 *1	418	504
Rated capacity (Wh)		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%)
Time to charge (hour)	Charger	EC-E8004	EC-E8004	EC-E8004	EC-E8004	EC-E8004
	SOC = 100%	4.0 (4.5) *2	4.0 (4.5) *2	4.8 (5.7) *2	3.0 (3.5) *1	4.0 (4.5) *1
	SOC = 80%	2.5 (3.2) *2	2.5 (3.2) *2	3.2 (4.0) *2	2.0 (2.5) *1	2.5 (3.2) *1
Charge level display		✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓
Charging port		- *3	- *3	- *3	-	-
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
Compatible charger		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
Average weight (g)		3000	3100	3600	2700	2800
Note		*1 BT-E8035 for Japan (13 Ah, 468 Wh) *2 In case of 100 V AC, refer time in ( ) *3 with SM-BTE80 or EW-CP100	*1 BT-E8035-L for Japan (13 Ah, 468 Wh) *2 In case of 100 V AC, refer time in ( ) *3 with SM-BTE80 or EW-CP100	*1 BT-E8036 for Japan (16.2 Ah, 583 Wh) *2 In case of 100 V AC, refer time in ( ) *3 with SM-BTE80 or EW-CP100	*1 In case of 100 V AC, refer time in ( )	*1 In case of 100 V AC, refer time in ( )

Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BM-EN820	BM-EN810-A	BM-EN800-A	BM-EN800-B	BM-EN801-A	BM-EN801-B
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
UL2849		✓	✓	✓	✓	✓	✓
Battery management system		-	Second generation	Second generation	Second generation	Second generation	Second generation
Position		Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Charging port		✓	-	-	-	-	-
Key lock system	w/ Conventional key unit	✓	✓	✓	✓	-	-
	w/ Hexagonal key unit	✓	✓	-	-	✓	✓
	Non key system	-	-	-	-	-	-
Power cable		✓	✓	✓	✓	✓	✓
Power cable length (mm)	75	-	-	-	-	-	-
	150	✓	-	-	-	-	-
	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)		450, 800, 1400	200	200	-	200	-
Average weight (g)		-	-	* 310 (Power cable: 250 mm), * 320 (Power cable: 400 mm)	* 290 (power cable: 250 mm), * 300 (power cable: 400 mm)	330 (power cable: 250 mm), 340 (power cable: 400 mm)	310 (power cable: 250 mm), 320 (power cable: 400 mm)
Note		Power cable length 150mm have only 450mm specification for cable length to satellite charging port		* Without key unit	* Without key unit	-	-

Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BM-EN802-A	BM-EN803-A	BM-EN600	BM-EN602	BM-EN400-A	BM-EN400-B
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	Gray	Gray
	3	-	-	-	-	-	-
UL2849		✓	✓	✓	✓	-	-
Battery management system		Second generation	Second generation	Second generation	Second generation	Second generation	Second generation
Position		Integrated	Integrated	Down tube/Seat tube	Down tube/Seat tube	Rear carrier	Rear carrier
Charging port		-	-	-	-	✓	✓
Key lock system	w/ Conventional key unit	✓	-	✓	✓	✓	✓
	w/ Hexagonal key unit	-	✓	-	-	-	-
	Non key system	-	-	-	-	-	-
Power cable		✓	✓	✓	✓	✓	✓
Power cable length (mm)	75	-	-	-	-	-	-
	150	-	-	-	-	-	-
	250	✓	✓	✓	✓	-	-
	300	-	-	✓	✓	-	-
	400	✓	✓	-	-	-	-
	600	-	-	✓	✓	-	-
	900	-	-	-	-	-	-
	920	-	-	-	-	✓	✓
	1000	-	-	-	-	-	-
	1020	-	-	-	-	✓	✓
Compatible satellite charging port		EW-CP100	EW-CP100	-	-	-	-
Cable length to satellite charging port (mm)		200	200	-	-	-	-
Average weight (g)		* 310 (Power cable: 250 mm), * 320 (Power cable: 400 mm)	330 (power cable: 250 mm), 340 (power cable: 400 mm)	* 270 (power cable: 250 mm/300 mm), * 300 (power cable: 600 mm)	* 270 (power cable: 250 mm/300 mm), * 300 (power cable: 600 mm)	* 380 (power cable: 920 mm), * 390 (power cable: 1020 mm)	* 380 (power cable: 920 mm), * 390 (power cable: 1020 mm)
Note		* Without key unit	-	* Without key unit	* Without key unit	Compatibility with AXA key unit. * Without key unit	Compatibility with ABUS and Trelock key unit. * Without key unit

Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BM-E8016	BM-E8020	BM-E8030-A	BM-E8030-B	BM-E8031-A	BM-E8031-B
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
UL2849		-	-	-	-	-	-
Battery management system		First generation	First generation	First generation	First generation	First generation	First generation
Position		Down tube/Seat tube	Integrated	Integrated	Integrated	Integrated	Integrated
Charging port		-	-	-	-	-	-
Key lock system	w/ Conventional key unit	✓	✓	✓	✓	-	-
	w/ Hexagonal key unit	✓	✓	-	-	✓	✓
	Non key system	-	-	-	-	-	-
Power cable		✓	✓	✓	✓	✓	✓
Power cable length (mm)	75	-	-	-	-	-	-
	150	-	-	-	-	-	-
	250	✓	✓	✓	✓	✓	✓
	300	✓	-	-	-	-	-
	400	-	✓	✓	✓	✓	✓
	600	✓	-	-	-	-	-
	900	-	-	-	-	-	-
	920	-	-	-	-	-	-
	1000	-	-	-	-	-	-
	1020	-	-	-	-	-	-
Compatible satellite charging port		-	-	EW-CP100	-	EW-CP100	-
Cable length to satellite charging port (mm)		-	-	200	-	200	-
Average weight (g)		-	-	* 310 (Power cable: 250 mm), * 320 (Power cable: 400 mm)	* 290 (power cable: 250 mm), * 300 (power cable: 400 mm)	330 (power cable: 250 mm), 340 (power cable: 400 mm)	310 (power cable: 250 mm), 320 (power cable: 400 mm)
Note		-	-	* Without key unit	* Without key unit	-	-

Battery Mount

Series		SHIMANO	SHIMANO
Model no.		BM-E6000-A	BM-E6000-B
Color	1	Black	Black
	2	Gray	Gray
	3	-	-
UL2849		-	-
Battery management system		First generation	First generation
Position		Rear carrier	Rear carrier
Charging port		✓	✓
Key lock system	w/ Conventional key unit	✓	✓
	w/ Hexagonal key unit	-	-
	Non key system	-	-
Power cable		✓	✓
Power cable length (mm)	75	-	-
	150	-	-
	250	-	-
	300	-	-
	400	-	-
	600	-	-
	900	-	-
	920	✓	✓
	1000	-	-
	1020	✓	✓
Compatible satellite charging port		-	-
Cable length to satellite charging port (mm)		-	-
Average weight (g)		-	-
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
UL2849	✓	✓	✓
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 *1	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	*1 Need SM-BTE81 to charge in frame		

Battery Charger

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EC-EN832	EC-EN834	EC-EN814	EC-E8004-1	EC-E8004-2	EC-E8004-3
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Plug type		-	-	-	Type C	Type A	Type A
Typical example country/region		Worldwide	Worldwide	Worldwide	Europe	USA/Canada	Japan
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	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
Output		50.4 V DC, 2.0 A	50.4 V DC, 4.0 A	42 V DC, 4A	42 V DC, 4 - 4.6 A	42 V DC, 4 A	42 V DC, 4 - 4.6 A
CE standard		✓	✓	✓	✓	-	-
UL1012		✓	✓	✓	✓	✓	✓
Korea standard		✓	✓	✓	-	-	-
Japan standard		-	-	-	-	-	✓
Charging time for 720 Wh battery	Full charge (hour)	7.5	4.6	-	-	-	-
	80% charge (hour)	6.3	3.2	-	-	-	-
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) *1	5.7	5.7
	80% charge (hour)	-	-	-	3.2 (4.0) *1	4	4
Charging time for 504 Wh (464 Wh in Japan) battery	Full charge (hour)	-	-	-	4.0 (4.5) *1	4.5	4.5
	80% charge (hour)	-	-	-	2.5 (3.2) *1	3.2	3.2
Charging time for 418 Wh (393 Wh in Japan) battery	Full charge (hour)	-	-	-	3.0 (3.5) *1	3.5	3.5
	80% charge (hour)	-	-	-	2.0 (2.5) *1	2.5	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		- *1	- *1	- *1	- *2	- *1	- *1
Compatible AC power cable		SM-BCC1	SM-BCC1	SM-BCC1	-	-	-
Built in AC cable		-	-	-	✓	✓	✓
Built in AC cable length (m)		-	-	-	2	2	1
Average weight (g)		-	-	600			
Note		*1 Check latest line-up chart	*1 Check latest line-up chart	*1 Check latest line-up chart	*1 In case of 100 V AC, refer time in ( ) *2 Check latest line-up chart	*1 Check latest line-up chart	*1 Check latest line-up chart

Battery Charger

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EC-E8004-4	EC-E8004-6	EC-E8004-7	EC-E8004-12	EC-E6002
Color	1	Black	Black	Black	Black	Black
	2	-	-	-	-	-
	3	-	-	-	-	-
Plug type		Type O	Type BF	Type C	Type C	-
Typical example country/region		Australia/New Zealand	UK	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	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, 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 720 Wh battery	Full charge (hour)	-	-	-	-	-
	80% charge (hour)	-	-	-	-	-
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) *1	4.8 (5.7) *1	4.8 (5.7) *1	4.8 (5.7) *1	10.2
	80% charge (hour)	3.2 (4.0) *1	3.2 (4.0) *1	3.2 (4.0) *1	3.2 (4.0) *1	7.5
Charging time for 504 Wh (464 Wh in Japan) battery	Full charge (hour)	4.0 (4.5) *1	4.0 (4.5) *1	4.0 (4.5) *1	4.0 (4.5) *1	7.5
	80% charge (hour)	2.5 (3.2) *1	2.5 (3.2) *1	2.5 (3.2) *1	2.5 (3.2) *1	4
Charging time for 418 Wh (393 Wh in Japan) battery	Full charge (hour)	3.0 (3.5) *1	3.0 (3.5) *1	3.0 (3.5) *1	3.0 (3.5) *1	6.5
	80% charge (hour)	2.0 (2.5) *1	2.0 (2.5) *1	2.0 (2.5) *1	2.0 (2.5) *1	3.5
Charging level display		-	-	-	-	-
Plug in charging type		✓	✓	✓	✓	✓
Charging temperature		0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C
Storage temperature		-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Error signal		✓	✓	✓	✓	✓
Adapter for battery connecter		- *2	- *2	- *2	- *2	- *1
Compatible AC power cable		-	-	-	-	SM-BCC1
Built in AC cable		✓	✓	✓	✓	-
Built in AC cable length (m)		1	1	1	1	-
Average weight (g)						523
Note		*1 In case of 100 V AC, refer time in ( ) *2 Check latest line-up chart	*1 In case of 100 V AC, refer time in ( ) *2 Check latest line-up chart	*1 In case of 100 V AC, refer time in ( ) *2 Check latest line-up chart	*1 In case of 100 V AC, refer time in ( ) *2 Check latest line-up chart	*1 Check latest line-up chart

Charging Adapter

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	SM-BTE82	SM-BTE81	SM-BTE80	SM-BTE60
UL2849	✓	✓	✓	-
Compatible battery	BT-EN827	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-EN832, EC-EN834	EC-EN814	EC-E6000 EC-E6002 EC-E8004	EC-E6000 EC-E6002 EC-E8004
Compatible Charger port	-	EW-CP110	-	-
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
Cable length (m)	0.3, 1.4
Cable 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	✓ *2
	E-ROAD/GRAVEL	-
	E-TREKKING/CITY	✓
	E-Cargo	✓
	E-Small tire	✓
Compatible drive unit	SHIMANO	✓ *1
	Others	✓
Compatible battery	SHIMANO	✓ *1
	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		*1 Refer to Line-up chart *2 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	✓ *1
	Others	-
Compatible battery	SHIMANO	✓ *1
	3rd Party	✓
Wire harness length (mm)		950
Communication	E-TUBE	-
	UART	✓
	CAN	-
	USB	-
Average weight (g)		-
Note		*1 Refer to Line-up chart

ABS Wheel Speed Sensor Kit

Series			SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.			BS-SS310-C	BS-SS310-S	BS-SS300-C	BS-SS300-S
Color	1		Black	Black	Black	Black
	2		-	-	-	-
	3		-	-	-	-
Compatible brake type			Disc brake	Disc brake	Disc brake	Disc brake
Mount type			F&R160PM/180PM/203PM/IS	F&R160PM/180PM/203PM/IS	F160PM/F180PM	F160PM/F180PM
Fork and frame mount style	Post mount	140 mm direct	-	-	-	-
		160 mm direct	✓	✓	✓	✓
		180 mm direct	✓	✓	✓	✓
		200 mm direct	-	-	-	-
		203 mm direct	✓	✓	-	-
	International A-standard		✓	✓	-	-
	Flat mount	Front	-	-	-	-
		Rear	-	-	-	-
Compatible rotor size	140 mm		-	-	-	-
	160 mm		-	-	-	-
	180 mm		✓	✓	✓	✓
	200 mm		-	-	-	-
	203 mm		✓	✓	✓	✓
	220 mm		✓	✓	-	-
Compatible rotor mount	CENTER LOCK		✓	-	✓	-
	6-bolt		-	✓	-	✓
Wire harness length (mm)			-	-	140	140
Included small parts	Mount adapter		✓ *1	✓ *1	✓	✓
	Fixing screw		✓ *1	✓ *1	✓	✓
	Tone wheel		✓	✓	✓	✓
	Lock ring		✓	-	✓	-
	Speed sensor		-	-	✓	✓
Average weight (g)			-	-	-	-
Note			*1 w/o option available in OEM package.	*1 w/o option available in OEM package.		

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