



2025-2026 SPEC. HANDBOOK

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

REMARKS Mark ✓ : available / Mark - : not available

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Specifications are subject to change without prior notice.

Visit **SHIMANO PRODUCT WEBSITE** for the latest information.

Word definitions

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

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The MTB logo is positioned vertically on the left side of the page. It consists of the letters 'MTB' in a bold, white, sans-serif font. The letters are slightly slanted and have a three-dimensional effect, appearing to be layered. The 'M' is at the bottom, followed by 'T' in the middle, and 'B' at the top.

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
	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
	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
	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
	Multiple input	2 step	-	-	-
		Hold	✓	-*(✓)	✓
	Adjustable lever position		-	-	-
Switch2	Default function		RD inward	FD inward	RD inward
	Multiple input	2 step	-	-	-
		Hold	✓	-*(✓)	✓
	Adjustable lever position		-	-	-
Switch3	Default function		-	-	Shifting/Adj. mode
	Multiple input	2 step	-	-	-
		Hold	-	-	✓
	Suspension switch		-	-**(✓)	-
Battery		-	-	CR1632 x 2	CR1632 x 2
LED	Shimano system status	-	-	✓	✓
Average weight (g)		93	93	-	-
Note			* User can use it for rear derailleur multishift ** User can use it for Suspension control	-	-

SW

RD

FD

SMAD

SC

SL

SLMT

SMSL

BL

BL

RD

FD

BR

BR

FC

SMCD

SMCR

BB

CS

HB

FH

WH

CI-DECK

SC

Rear Derailleur

Series		XTR	XTR	XTR	XTR
Model no.		RD-M9250-GS	RD-M9250-SGS	RD-M9260-12	RD-M9260-11L
Color	1 2	Series color	Series color	Series color	Series color
Rear speeds	12	12	12	12	11
Compatible chain	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 derailleuer hanger	SHIMANO MTB type SHIMANO ROAD type UDH standard	Direct attachment (conventional) Direct mount - - - - - -	✓ - - - - - - - -	✓ - - - - - - - -	✓ - - - - - - - -
Mode converter	-	-	-	-	-
Cable adjuster	-	-	-	-	-
Max. front difference	0T	0T	0T	0T	0T
Total capacity	36T Max. Min.	41T 51T 51T	41T 51T 51T	41T 50T 50T	39T 50T 50T
Low sprocket	Max. Min.	45T 45T	51T 51T	51T 51T	50T 50T
Top sprocket	Max. Min.	9T 9T	10T 10T	10T 10T	11T 11T
Fluoric coated link bushings	8	8	8	8	8
Pulley	Guide pulley bearing Tension pulley bearing Teeth Screws material Sunken type pulley screw	Sealed bearing Sealed bearing 13T Stainless steel ✓	Sealed bearing Sealed bearing 13T Stainless steel ✓	Sealed bearing Sealed bearing 13T Stainless steel ✓	Sealed bearing Sealed bearing 13T Stainless steel ✓
Bracket	Material Finish	- -	- -	- -	- -
B-axle	Hollow axle Material Finish	✓ Aluminum Anodized	✓ Aluminum Anodized	✓ Aluminum Anodized	✓ Aluminum Anodized
B-axle 2	Hollow axle Material Finish	- -	- -	- -	- -
Bracket body	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted
P-axle	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Plate body	Material Finish	CFRP Painted	CFRP Painted	CFRP Painted	CFRP Painted
Outer link	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted
Inner link	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted
Outer plate	Material Finish	Carbon Painted	Carbon Painted	Carbon Painted	Carbon Painted
Inner plate	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Cable fixing screw	Material Finish	- -	- -	- -	- -
Stroke adjusting screw	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Di2 connectivity wired	Di2 shifting Di2 shifting	- ✓	- ✓	✓ ✓	✓ ✓
Bluetooth h@LE	Cycling power Bicycle power	- -	- -	- -	- -
ANT+	-	-	-	-	-
Bluetoot h@LE custom (*1)	Adjust mode information Di2 battery level Gear position SHIMANO E-BIKE SYSTEM S data items (*3)	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ - ✓ ✓	✓ - ✓ ✓
Di2 connectivity wireless	Bluetooth with E-TUBE RIDE Compatible with E-TUBE PROJECT	✓ ✓	✓ ✓	✓ ✓	✓ ✓
ANT private (*2)	Adjust mode information Di2 battery level Gear position SHIMANO E-BIKE SYSTEM S data items (*3)	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ - ✓ ✓	✓ - ✓ ✓
SD50 port (pcs)	0	0	0	0	0
SD300 port (pcs)	0	0	1*	1*	1*
SD300 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	370
Note	*1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile. *3 Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.			* Compatible with EW-PS300	* Compatible with EW-PS300

Rear Derailleur

Series		XTR	DEORE XT	DEORE XT	DEORE XT
Model no.		RD-M9050-SGS	RD-M8250-GS	RD-M8250-SGS	RD-M8260-12
Color	1 2	Series color	Series color	Series color	Series color
Rear speeds	11 12	- HG 11-speed	- HG 12-speed	- HG 12-speed	- HG 12-speed
Compatible chain	SHIMANO SHADOW RD SHIMANO SHADOW RD+ Double servo SHADOW ES	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 12-speed	LINKGLIDE, HG 12-speed	LINKGLIDE, HG 12-speed
RD construction	SHIMAN O MTB type	Direct attachment (conventional) Direct mount	✓ -	✓ -	✓ -
	SHIMAN O ROAD type	Direct attachment (conventional) Direct mount	- -	- -	- -
	UDH standard	-	-	✓ -	✓ -
	Mode converter Cable adjuster	-	-	- -	- -
Max. front difference	18T	0T	0T	0T	0T
Total capacity	41T**	36T	41T	41T	41T
Low sprocket	Max.	40T (3x11-speed), 42T (2x11-speed), 46T (1x11-speed)	45T	51T	51T
	Min.	40T	45T	51T	51T
Top sprocket	Max.	11T	9T	10T	10T
	Min.	11T	9T	10T	10T
Fluoric coated link bushings	4	8	8	8	8
Pulley	Guide pulley bearing	Sealed Bearing	Sealed bearing	Sealed bearing	Sealed bearing
	Tension pulley bearing	Sealed bearing	Sealed bearing	Sealed bearing	Sealed bearing
	Teeth	11T	13T	13T	13T
	Screws material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Bracket	Sunken type pulley screw	✓	✓	✓	✓
	Material	Aluminum	-	-	-
B-axle	Finish	Anodized	-	-	-
	Hollow axle	✓	✓	✓	✓
B-axle 2	Material	Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Coloring	Coloring	Coloring
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel
	Finish	-	Plated	Plated	Plated
Plate body	Material	CFRP	GFRP	GFRP	GFRP
	Finish	Painted	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted
Outer plate	Material	Carbon	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Cable fixing screw	Material	-	-	-	-
	Finish	-	-	-	-
Stroke adjusting screw	Material	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Plated	Plated	Plated
Di2 connectivity wired	Di2 shifting	✓	-	-	✓
	Di2 shifting	-	✓	✓	✓
Bluetooth h@LE	Cycling power	-	-	-	-
	Bicycle power	-	-	-	-
Di2 connectivity wireless	Adjust mode information	-	✓	✓	✓
	Di2 battery level	-	✓	✓	-
	Gear position	-	✓	✓	✓
	SHIMAN O E-BIKE SYSTEM S data items (*3)	-	✓	✓	✓
	Compatible with E-TUBE RIDE	-	✓	✓	✓
	Compatible with E-TUBE PROJECT	-	✓	✓	✓
	Adjust mode information	-	✓	✓	✓
	Di2 battery level	-	✓	✓	-
	Gear position	-	✓	✓	✓
	SHIMAN O E-BIKE SYSTEM S data items (*3)	-	✓	✓	✓
SD50 port (pcs)	1	0	0	0	0
SD300 port (pcs)	0	0	0	0	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)	295	446	449	427

Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile. *3 Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.

* w/o Bracket spec available.
** The Di2 system limits cross chain to prevent a chain from getting loose.

* Compatible with EW-PS300

Rear Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		RD-M8260-11L	RD-M8150-12	RD-M8150-11	RD-M8050-GS
Color	1 2	Series color	Series color	Series color	Series color
Rear speeds	11 12	LINKGLIDE, HG 11-speed	HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Compatible chain	SHIMANO SHADOW RD SHIMANO SHADOW RD+ Double servo SHADOW ES	-	-	-	-
RD construction	SHIMANO SHADOW RD SHIMANO SHADOW RD+ Double servo SHADOW ES	-	✓	✓	✓
Applicable derailleur hanger	SHIMANO MTB type SHIMANO ROAD type	Direct attachment (conventional) Direct mount	✓ -	✓ -	✓ -
UDH standard	SHIMANO MTB type SHIMANO ROAD type	Direct attachment (conventional) Direct mount	- -	- -	- -
Mode converter	SHIMANO MTB type SHIMANO ROAD type	UDH standard	✓ -	✓ -	✓ -
Cable adjuster	SHIMANO MTB type SHIMANO ROAD type	UDH standard	- -	- -	- -
Max. front difference	SHIMANO MTB type SHIMANO ROAD type	UDH standard	0T -	0T -	0T -
Total capacity	SHIMANO MTB type SHIMANO ROAD type	UDH standard	39T 50T 50T	41T 51T 51T	39T 50T 40T
Low sprocket	SHIMANO MTB type SHIMANO ROAD type	UDH standard	Max. Min.	50T 51T 50T	42T (2x11-speed), 46T (1x11-speed) 40T
Top sprocket	SHIMANO MTB type SHIMANO ROAD type	UDH standard	Max. Min.	11T 11T	11T 11T
Fluoric coated link bushings	SHIMANO MTB type SHIMANO ROAD type	UDH standard	8	3	3 4
Pulley	SHIMANO MTB type SHIMANO ROAD type	Guide pulley bearing Tension pulley bearing Teeth Screws material Sunken type pulley screw	Sealed bearing Sealed bearing 13T Stainless steel	Sealed Bearing Sealed bearing 13T Stainless steel	Sealed Bearing Sealed bearing 13T Stainless steel
Bracket	SHIMANO MTB type SHIMANO ROAD type	Guide pulley bearing Tension pulley bearing Teeth Screws material Sunken type pulley screw	✓	✓	✓ ✓
B-axle	SHIMANO MTB type SHIMANO ROAD type	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
B-axle 2	SHIMANO MTB type SHIMANO ROAD type	Material Finish	Stainless steel Coloring	Aluminum Anodized	Aluminum Anodized
Bracket body	SHIMANO MTB type SHIMANO ROAD type	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted
P-axle	SHIMANO MTB type SHIMANO ROAD type	Material Finish	Steel Plated	Steel Plated	Painted Steel
Plate body	SHIMANO MTB type SHIMANO ROAD type	Material Finish	GFRP	GFRP	GFRP
Outer link	SHIMANO MTB type SHIMANO ROAD type	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted
Inner link	SHIMANO MTB type SHIMANO ROAD type	Material Finish	Aluminum Painted	Aluminum Anodized	Aluminum Anodized
Outer plate	SHIMANO MTB type SHIMANO ROAD type	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted
Inner plate	SHIMANO MTB type SHIMANO ROAD type	Material Finish	Aluminum Anodized	Aluminum Painted	Aluminum Painted
Cable fixing screw	SHIMANO MTB type SHIMANO ROAD type	Material Finish	-	-	-
Stroke adjusting screw	SHIMANO MTB type SHIMANO ROAD type	Material Finish	Steel Plated	Steel Plated	Steel Plated
Di2 connectivity wired	SHIMANO MTB type SHIMANO ROAD type	Di2 shifting Di2 shifting	✓ ✓	✓ -	✓ -
Bluetooth h@LE	SHIMANO MTB type SHIMANO ROAD type	Cycling power Bicycle power	- -	- -	- -
ANT+	SHIMANO MTB type SHIMANO ROAD type	Adjust mode information Di2 battery level Gear position	✓ -	- -	- -
Bluetooth h@LE custom (*1)	SHIMANO MTB type SHIMANO ROAD type	SHIMANO E-BIKE SYSTEM S data items (*3)	✓	-	-
Di2 connectivity wireless	SHIMANO MTB type SHIMANO ROAD type	Bluetooth h@LE custom (*1) Compatibility with E-TUBE RIDE Compatibility with E-TUBE PROJECT	✓ ✓ ✓	- -	- -
ANT private (*2)	SHIMANO MTB type SHIMANO ROAD type	Adjust mode information Di2 battery level Gear position	✓ -	- -	- -
SD50 port (pcs)	SHIMANO MTB type SHIMANO ROAD type	SHIMANO E-BIKE SYSTEM S data items (*3)	✓	-	-
SD300 port (pcs)	SHIMANO MTB type SHIMANO ROAD type	SD50 connector (pcs)	0	0	0
SD50 connector (pcs)	SHIMANO MTB type SHIMANO ROAD type	SD300 connector (pcs)	1*	1	1
SD300 connector (pcs)	SHIMANO MTB type SHIMANO ROAD type	LED for system status	0	0	0
Power supply	Built-in battery Wired	LED for system status	✓	-	-
Charging port	Charging cable	Power supply	-	-	-
Average weight (g)	427	Charging port	375	375	319

Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile. *3 Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.

* Compatible with EW-PS300

RD-M8150 is only for E-BIKE

RD-M8150 is only for E-BIKE

* w/o Bracket spec available.
** The Di2 system limits cross chain to prevent a chain from getting loose.

Rear Derailleur

Series		DEORE	DEORE	DEORE
Model no.		RD-M6250-SGS	RD-M6260-12	RD-M6260-11L
Color	1 2	Series color	Series color	Series color
Rear speeds	12	-	12	11
Compatible chain	SHIMANO SHADOW RD SHIMANO SHADOW RD+ Double servo SHADOW ES	HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed
RD construction	SHIMANO MTB type	-	-	-
	SHIMANO ROAD type	-	-	-
	Direct mount	-	-	-
	UDH standard	✓	✓	✓
Applicable derailleuer hanger	SHIMANO MTB type	Direct attachment (conventional)	✓	✓
	SHIMANO ROAD type	Direct attachment (conventional)	-	-
	Direct mount	-	-	-
	UDH standard	-	-	-
Mode converter	-	-	-	-
Cable adjuster	-	-	-	-
Max. front difference	0T	0T	0T	0T
Total capacity	41T	41T	41T	39T
Low sprocket	Max. Min.	51T 51T	51T 51T	50T 50T
Top sprocket	Max. Min.	10T 10T	10T 10T	11T 11T
Fluoric coated link bushings	8	8	8	8
Pulley	Guide pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	Tension pulley bearing	Sealed bearing	Sealed bearing	Sealed bearing
	Teeth	13T	13T	13T
	Sunken type pulley screw	Stainless steel	Stainless steel	Stainless steel
Bracket	Material	✓	✓	✓
	Finish	-	-	-
B-axle	Hollow axle	✓	✓	✓
	Material	Stainless steel	Stainless steel	Stainless steel
B-axle 2	Material	Coloring	Coloring	Coloring
	Finish	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel
	Finish	Plated	Plated	Plated
Plate body	Material	GFRP	GFRP	GFRP
	Finish	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Outer plate	Material	Steel	Steel	Steel
	Finish	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel
	Finish	Painted	Painted	Painted
Cable fixing screw	Material	-	-	-
	Finish	-	-	-
Stroke adjusting screw	Material	Steel	Steel	Steel
	Finish	Plated	Plated	Plated
Di2 connectivity wired	Di2 shifting	-	✓	✓
Bluetooth h@LE	Di2 shifting	✓	✓	✓
	Cycling power	-	-	-
	Bicycle power	-	-	-
	Adjust mode information	✓	✓	✓
Bluetooth h@LE custom (*1)	Di2 battery level	✓	-	-
	Gear position	✓	✓	✓
	SHIMANO E-BIKE SYSTEM S data items (*3)	✓	✓	✓
	Compatible with E-TUBE RIDE	✓	✓	✓
Di2 connectivity wireless	Compatible with E-TUBE PROJECT	✓	✓	✓
	Adjust mode information	✓	✓	✓
	Di2 battery level	✓	-	-
	Gear position	✓	✓	✓
ANT private (*2)	SHIMANO E-BIKE SYSTEM S data items (*3)	✓	✓	✓
	Adjust mode information	✓	✓	✓
	Di2 battery level	✓	-	-
	Gear position	✓	✓	✓
SD50 port (pcs)	0	0	0	0
SD300 port (pcs)	0	1*	1*	1*
SD300 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	-	-	-	-
Average weight (g)	-	-	-	-

Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile. *3 Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.

* Compatible with EW-PS300

* Compatible with EW-PS300

SW
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Front Derailleur

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

Mount Adapter for Front Derailleur

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

SW

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CI-DECK

SC

System Information Display

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

Shifter

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

Shifter

Series		XTR	XTR	SAINT	SAINT	DEORE XT	DEORE XT
Model no.		SL-M980-B-IR	SL-M980-B-IL	SL-M820	SL-M820-B-I	SL-M8100-R	SL-M8100-IR
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds	-	2/3	-	-	-	-	-
Rear speeds	10	-	10	10	12	12	
Compatible rear derailleur type	MTB 10-speed	-	MTB 10-speed	MTB 10-speed	12-speed	12-speed	
Mount type	Clamp band	-	-	✓	-	✓	-
	I-SPEC B	✓	✓	-	✓ **	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	✓
Shift lever position adjust	✓	✓	-	✓	-	✓	(14 mm slide adjust range)
Shift lever rotation adjust (non I-SPEC EV)	✓	✓	-	✓	-	-	-
Shift lever cable adjust	✓ (CFRP)	✓ (CFRP)	✓ (CFRP)	✓ (CFRP)	✓	✓	✓
Front 2/3 mode converter	-	✓	-	-	-	-	-
Max. multiple shifts (main lever/rear)	4	-	4	4	4	4	4
Release function	MULTI RELEASE	✓	-	✓ *	✓ *	✓	✓
	INSTANT RELEASE	✓	✓	✓	✓	✓	✓
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
	Adjustable lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-
	With (removable)	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Multi-bearing construction	4	4	4	4	2	2	
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Clamp screw	Material	-	-	Stainless steel	-	Stainless steel	Stainless steel
	Finish	-	-	Black	-	Black	Black
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Release lever body	Material	Steel+CFRP	Steel+CFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish	-	-	-	-	-	-
Base cover	Material	CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	-	-	-	✓	✓
		SIL-TEC	✓	✓	-	-	-
		Stainless	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-
Recommended shift lever outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
Average weight (g)	103 (/pc)	98 (/pc)	123 (/pc)	114 (/pc)	117 (/pc)	120 (/pc)	
Note			* Pull: single, push: double	* Pull: single, push: double ** I-spec B-type	w/Rubber grooved grip (main lever)	w/Rubber grooved grip (main lever)	

Shifter

MTB

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

SW

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Shifter

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	
Model no.		SL-M8000-IR	SL-M8000-IL	SL-M8000-B-IR	SL-M780-B-IR	SL-M780-B-IL	SL-M780-R	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	
Front speeds		-	2/3	-	-	2/3	-	
Rear speeds		11	-	11	10	-	10	
Compatible rear derailleur type		MTB 11-speed	-	MTB 11-speed	MTB 10-speed	-	MTB 10-speed	
Mount type	Clamp band	-	-	-	-	-	✓	
	I-SPEC B	-	-	✓	✓	✓	-	
	I-SPEC II	✓	✓	-	-	-	-	
	I-SPEC EV	-	-	-	-	-	-	
Shift lever position adjust		✓	✓	✓	✓	✓	-	
Shift lever rotation adjust (non I-SPEC EV)		✓	✓	✓	✓	✓	-	
Shift lever cable adjust		✓	✓	✓	✓	✓	✓	
Front 2/3 mode converter		-	-	-	-	✓	-	
Max. multiple shifts (main lever/rear)		4	-	4	4	-	4	
Release function	MULTI RELEASE	✓ *	-	✓ *	✓	-	✓	
	INSTANT RELEASE	✓	✓	✓	✓	✓	✓	
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓	
	Adjustable lever	-	-	-	-	-	-	
OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-	
	With (removable)	-	-	-	-	-	✓	
	Without	✓	✓	✓	✓	✓	✓	
Multi-bearing construction		2	2	2	2	2	2	
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	-	-	-	-	-	Stainless steel	
	Finish	-	-	-	-	-	-	
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Release lever body	Material	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	
	Finish	-	-	-	-	-	-	
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLIC K	✓	✓	✓	-	-	
		SIL-TEC	-	-	-	-	-	
		Stainless	✓	✓	✓	✓	✓	
		Steel	-	-	-	-	-	
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
Average weight (g)		120 (/pc)	110 (/pc)	117 (/pc)	114 (/pc)	106 (/pc)	128 (/pc)	
Note		* Pull: single, push: double		* Pull: single, push: double				

Shifter

Series		DEORE XT	DEORE XT	DEORE XT	SLX	SLX	SLX	
Model no.		SL-M780-L	SL-M770-A-R	SL-M770-A-L	SL-M7100-R	SL-M7100-IR	SL-M7100-L	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	
Front speeds		2/3	-	3	-	-	2	
Rear speeds		-	9	-	12	12	-	
Compatible rear derailleur type		-	MTB 9-speed	-	12-speed	12-speed	-	
Mount type	Clamp band	✓	✓	✓	✓	-	✓	
	I-SPEC B	-	-	-	-	-	-	
	I-SPEC II	-	-	-	-	-	-	
	I-SPEC EV	-	-	-	-	✓	-	
Shift lever position adjust		-	-	-	-	(14 mm slide adjust range)	-	
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-	
Shift lever cable adjust		✓	✓	✓	✓	✓	✓	
Front 2/3 mode converter		✓	-	-	-	-	-	
Max. multiple shifts (main lever/rear)		-	4	-	3	3	-	
Release function	MULTI RELEASE	-	-	-	-	-	-	
	INSTANT RELEASE	✓	✓	✓	-	-	✓	
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓	
	Adjustable lever	-	-	-	-	-	✓	
OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-	
	With (removable)	✓	✓	✓	-	-	-	
	Without	✓	✓	✓	✓	✓	✓	
Multi-bearing construction		2	2	2	-	-	-	
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Main lever body	Material	Aluminum	Aluminum	Aluminum	Steel+GFRP	Steel+GFRP	Steel+GFRP	
	Finish	Painted	Painted	Painted	-	-	-	
Release lever body	Material	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	
	Finish	-	-	-	-	-	-	
Base cover	Material	GFRP	Resin	Resin	GFRP	GFRP	GFRP	
	Finish	Painted	Painted	Painted	-	-	-	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLIC K	-	-	✓	✓	✓	
		SIL-TEC	-	-	-	-	-	
		Stainless	✓	✓	✓	✓	✓	
		Steel	-	-	-	-	-	
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
Average weight (g)		121 (/pc)	255 (/pair)	255 (/pair)	117 (/pc)	117 (/pc)	77 (/pc)	
Note								

SW

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Shifter

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

Shifter

Series		SLX	SLX	SLX	SLX	DEORE	DEORE	
Model no.		SL-M7000-10-IR	SL-M7000-10-B-IR	SL-M670-B-IR	SL-M670-B-IL	SL-M6100-R	SL-M6100-IR	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	
Front speeds		-	-	-	2/3	-	-	
Rear speeds		10	10	10	-	12	12	
Compatible rear derailleur type		MTB 10-speed	MTB 10-speed	MTB 10-speed	-	MTB 12-speed	MTB 12-speed	
Mount type	Clamp band	-	-	-	-	✓	-	
	I-SPEC B	-	✓	✓	✓	-	-	
	I-SPEC II	✓	-	-	-	-	-	
	I-SPEC EV	-	-	-	-	-	✓	
Shift lever position adjust		✓	✓	✓	✓	-	✓ (14 mm slide adjust range, w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)	
Shift lever rotation adjust (non I-SPEC EV)		✓	✓	✓	✓	-	-	
Shift lever cable adjust		✓	✓	✓	✓	✓	✓	
Front 2/3 mode converter		-	-	-	✓	-	-	
Max. multiple shifts (main lever/rear)		3	3	3	-	3	3	
Release function	MULTI RELEASE	-	-	-	-	-	-	
	INSTANT RELEASE	-	-	-	-	-	-	
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓	
	Adjustable lever	-	-	-	-	-	-	
OPTICAL GEAR DISPLAY	With	-	-	-	-	✓	✓	
	With (removable)	-	-	-	-	-	-	
	Without	✓	✓	✓	✓	✓	✓	
Multi-bearing construction		-	-	-	-	-	-	
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	-	-	-	-	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Main lever body	Material	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	
	Finish	-	-	-	-	-	-	
Release lever body	Material	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	
	Finish	-	-	-	-	-	-	
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
	Finish	-	-	-	-	-	-	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLICK	✓	✓	-	✓	✓	
		SIL-TEC	-	-	-	-	-	
		Stainless	✓	✓	✓	✓	✓	
		Steel	-	-	-	-	-	
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
Average weight (g)		120 (/pc)	127 (/pc)	121 (/pc)	116 (/pc)	-	-	
Note								

Shifter

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

Shifter

MTB

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

SW

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SMAD

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SLMT

SMSL

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BL

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SMCD

SMCR

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HB

FH

WH

CI-DECK

SC

Shifter

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

Seat Post Lever

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

Integration Unit for Shifter

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

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
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)		67	112	114	66	97	104
Note							

Brake Lever (Hydraulic Disc Brake)

MTB

Series		DEORE XT	DEORE XT	SLX	DEORE	SHIMANO	SHIMANO
Model no.		BL-M8100	BL-M8000	BL-M7100	BL-M6100	BL-M4100	BL-MT501
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		2	2	2	2	2	2
Color	1	Series color	Series color	Series color	Series color	Black (SHIMANO logo)	Black
	2	-	-	-	Black (SHIMANO logo)	-	-
	3	-	-	-	-	-	-
Brake hose (kit)		SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SS	SM-BH59-JK-SS (for BR-MT410) SM-BH90-SS (for BR-MT420)	SM-BH59-JK-SS (for BR-MT500) SM-BH90-SS (for BR-MT520)
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	10	10	-
Recommended brake caliper		BR-M8100, BR-M8110-R, BR-M8120	BR-M8000	BR-M7100, BR-M7110-R, BR-M7120	BR-M6100 BR-M6120	BR-MT410 BR-MT420	BR-MT500 BR-MT520
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
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							

SW

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CI-DECK

SC

Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BL-MT401	BL-MT402-3A	BL-MT402-ABS	BL-MT201	BL-MT200-ABS	BL-MT200
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		2	3	3	3	3	3
Color	1	Black (metallic silver lever)	Black	Black	Black	Black	Black
	2	Black (black lever)	Silver *	-	-	-	-
	3	-	-	-	-	-	-
Brake hose (kit)		SM-BH59-JK-SS (for BR-MT410) SM-BH50-SS (for BR-MT420)	SM-BH59-JK-SS (for BR-MT410) SM-BH50-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-MT410 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	Aluminum	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (g)		-	-	-	-	-	-
Note		-	* The option color part is master cylinder	Special J-kit for BOSCH ABS	-	Special J-kit for BOSCH ABS	-

Brake Lever

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

SW

RD

FD

SMAD

SC

SL

SLMT

SMSL

BL

BL

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

CS

HB

FH

WH

CI-DECK

SC

Rear Derailleur

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

Rear Derailleur

MTB

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

Rear Derailleur

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

Rear Derailleur

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

SW

RD

FD

SMAD

SC

SL

SLMT

SMSL

BL

BL

RD

FD

BR

BR

FC

SMCD

SMCR

BB

CS

HB

FH

WH

CI-DECK

SC

Front Derailleur

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

Front Derailleur

MTB

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

Front Derailleur

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

Front Derailleur

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

SW

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CI-DECK

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Front Derailleur

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

Front Derailleur

MTB

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

SW

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FD

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CI-DECK

Front Derailleur

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

Front Derailleur

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

SW

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Front Derailleur

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

Brake (Hydraulic Disc Brake)

Series		XTR	XTR	DEORE XT	DEORE XT	SHIMANO	XTR
Model no.		BR-M9200	BR-M9220	BR-M8200	BR-M8220	BR-MT805	BR-M9100
Color	1	Series color	Series color	Series color	Series color	Black (SHIMANO logo)	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)	K05Ti-RX Resin (w/o fin)	K05Ti-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)	K04S-MX Metal (w/o fin)	K04Ti-MX Metal (w/o fin)
	Option 1	-	D03S-RX Resin (w/o fin)	J05A-RF Resin (w/ fin)	D03S-RX Resin (w/o fin)	L05A-RF Resin (w/ fin)	-
	Option 2	-	D02S-MX Metal (w/o fin)	J04C-MF Metal (w/ fin)	D02S-MX Metal (w/o fin)	L04C-MF Metal (w/ fin)	-
Fixing screw spec for rear mount	10 mm mount	-	-	-	-	-	-
	15 mm mount	-	-	-	-	-	-
	20 mm mount	-	-	-	-	✓	-
	25 mm mount	-	-	-	-	✓	-
	30 mm mount	-	-	-	-	✓	-
	35 mm mount	-	-	-	-	-	-
Recommended brake lever		BL-M9200	BL-M9220	BL-M8200	BL-M8200	BL-M9200, BL-M9220, BL-M8200	BL-M9100
Recommended disc brake rotor		RT-CL900, RT-MT905	RT-CL900, RT-MT905	RT-CL800, SM-RT86	RT-CL800, SM-RT86	RT-CL900, RT-MT905, RT-CL800, SM-RT86	RT-MT900
Compatible rotor size	140 mm (SS)	✓	-	✓	-	✓	✓
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	✓	✓	✓	✓	✓	✓
	203 mm (L)	-	✓	✓	✓	-	-
	220 mm (LL)	-	✓	✓	✓	-	-
Oil		SHIMANO LOW VISCOSITY OIL	SHIMANO LOW VISCOSITY OIL	SHIMANO LOW VISCOSITY OIL	SHIMANO LOW VISCOSITY OIL	SHIMANO LOW VISCOSITY OIL	SHIMANO mineral
ONE WAY BLEEDING		✓	-	✓	-	✓	✓
Mount type		Post type	Post type	Post type	Post type	Flat mount	Post type
Piston		2	4	2	4	2	2
Piston material		Resin	Resin	Resin	Resin	Resin	Ceramic
Caliper	MONO-BODY	✓	✓	-	-	-	✓
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Anodized
Caliper fixing screw	Material	Ti	Steel	Steel	Steel	Steel	Ti
	Tool size	** 4 mm	5 mm	5 mm	5 mm	4 mm	** 4 mm
	Anti loosen method	Wiring	Snap ring	Snap ring	Snap ring	Screw fix pin+Snap ring	Wiring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		91	134	113	148	125	92
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)	Kit for rear 1700 mm 252 (BL-M9200) 300 (BL-M9220) 302 (BL-M8200)	193
Note		** Titanium				For rear only.	** Titanium

Brake (Hydraulic Disc Brake)

Series		XTR	XTR	SAINT	DEORE XT	DEORE XT	DEORE XT
Model no.		BR-M9110	BR-M9120	BR-M820	BR-M8100	BR-M8110	BR-M8120
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-SBLS	SM-BH90-SBM	SM-BH90-SS	SM-BH90-SBM
Hose joint		Straight	Banjo	Banjo	Banjo	Straight	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	K05Ti-RX Resin (w/o fin)	N03A-RF Resin (w/ fin)	H03A-RF Resin (w/ fin)	G05A-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)	N03A-RF Resin (w/ fin)
	Standard 2	K04Ti-MX Metal (w/o fin)	N04C-MF Metal (w/ fin)	H03C-MF Metal (w/ fin)	G04S-MX_Metal (w/o fin)	K04S-MX_Metal (w/o fin)	N04C-MF Metal (w/ fin)
	Option 1	-	-	-	J05A-RF Resin (w/ fin)	L05A-RF Resin (w/ 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)
Fixing screw spec for rear mount	10 mm mount	-	-	-	-	-	-
	15 mm mount	-	-	-	-	-	-
	20 mm mount	✓	-	-	-	✓	-
	25 mm mount	✓	-	-	-	✓	-
	30 mm mount	✓	-	-	-	✓	-
	35 mm mount	-	-	-	-	-	-
Recommended brake lever		BL-M9100	BL-M9120	BL-M820	BL-M8100 BL-T8100	BL-M8100	BL-M8100 BL-T8100
Recommended disc brake rotor		RT-MT900	RT-MT900	SM-RT99, SM-RT86	RT-MT800	RT-MT800	RT-MT800
Compatible rotor size	140 mm (SS)	✓	✓	✓	✓	✓	✓
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	-	✓	✓	✓	✓	✓
	203 mm (L)	-	✓	✓	✓	-	✓
	220 mm (LL)	-	✓	✓	✓	-	✓
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	-	✓	✓	✓	-
Mount type		Flat mount	Post type	Post type	Post type	Flat mount	Post type
Piston		2	4	4	2	2	4
Piston material		Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Ti	Steel	Steel	Steel	Steel
	Tool size	4 mm	** 4 mm	5 mm	5 mm	4 mm	5 mm
	Anti loosen method	Screw fix pin+Snap ring	Wiring	Snap ring	Snap ring	Screw fix pin+Snap ring	Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		108	131	153	121	126	141
Average weight (g) (kit for front 800 mm, w/ pad (Standard 1), w/o adapter, w/ 2 screws)		203	262	303	269	260	289
Note		For rear only. 140 mm disc brake rotor direct mount	** Titanium			For rear only.	

Brake (Hydraulic Disc Brake)

Series		DEORE XT	DEORE XT	SLX	SLX	SLX	DEORE
Model no.		BR-M8000	BR-M8020	BR-M7100	BR-M7110	BR-M7120	BR-M6100
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	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-SB	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SS	SM-BH90-SBM	SM-BH90-SS
Hose joint		Banjo	Banjo	Banjo	Straight	Banjo	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	G05A-RX Resin (w/o fin)	H03A-RF Resin (w/ fin)	G05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)	D03S-RX Resin (w/o fin)	G05S-RX Resin (w/o fin)
	Standard 2	J05A-RF Resin (w/ fin)	-	G04S-MX Metal (w/o fin)	K04S-MX Metal (w/o fin)	N03A-RF Resin (w/ fin)	J05A-RF Resin (w/ fin)
	Option 1	G04S-MX Metal (w/o fin)	D03S-RX Resin (w/o fin)	J05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)	D02S-MX Metal (w/o fin)	G04S-MX Metal (w/o fin)
	Option 2	J04C-MF Metal (w/ fin)	H03C-MF Metal (w/ fin)	J04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)	N04C-MF Metal (w/ fin)	-
Fixing screw spec for rear mount	10 mm mount	-	-	-	-	-	-
	15 mm mount	-	-	-	-	-	-
	20 mm mount	-	-	-	✓	-	-
	25 mm mount	-	-	-	✓	-	-
	30 mm mount	-	-	-	✓	-	-
	35 mm mount	-	-	-	-	-	-
Recommended brake lever		BL-M8000 BL-T8000	BL-M8000	BL-M7100	BL-M7100	BL-M7100	BL-M6100
Recommended disc brake rotor		RT-MT800, SM-RT86 RT-EM810, RT-EM910	RT-MT800, SM-RT99, RT-EM810, RT-EM910	SM-RT70	SM-RT70	SM-RT70	SM-RT54 *, SM-RT56 *, SM-RT64, SM-RT66
Compatible rotor size	140 mm (SS)	✓	✓	✓	✓	✓	✓
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	✓	✓	✓	✓	✓	✓
	203 mm (L)	✓	✓	✓	-	✓	✓
	220 mm (LL)	✓	✓	✓	-	✓	✓
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓	✓	✓	-	✓
Mount type		Post type	Post type	Post type	Flat mount	Post type	Post type
Piston		2	4	2	2	4	2
Piston material		Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Resin
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	5 mm	5 mm	5 mm	4 mm	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	Screw fix pin+Snap ring	Snap ring	Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Split pin (stainless steel)
Average weight (g)		118	153	121	125	142	-
Average weight (g) (kit for front 800 mm, w/ pad (Standard 1), w/o adapter, w/ 2 screws)		266	303	271	262	293	-
Note					For rear only.		*: Only compatible with resin pad

Brake (Hydraulic Disc Brake)

Series		DEORE	DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-M6120	BR-M6000	BR-MT520	BR-MT500	BR-MT420	BR-MT410
Color	1	Series color	Series black	Black	Black	Black	Black (SHIMANO logo)
	2	Black (SHIMANO logo) ***	Series silver *	-	-	-	-
	3	-	Black (SHIMANO logo) ***	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SS	SM-BH90-SS	SM-BH90-SS	SM-BH59-JK-SS	SM-BH90-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)		✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		-	✓	-	-	-	-
Pad	Standard 1	D03S-RX Resin (w/o fin)	G05A-RX Resin (w/o fin)	D03S-RX Resin (w/o fin)	B05S-RX Resin (w/o fin)	D03S-RX Resin (w/o fin)	B05S-RX Resin (w/o fin)
	Standard 2	-	J05A-RF Resin (w/ fin)	D02S-MX Metal (w/o fin)	-	D02S-MX Metal (w/o fin)	-
	Option 1	D02S-MX Metal (w/o fin)	G04S-MX Metal (w/o fin)	-	-	-	-
	Option 2	-	-	-	-	-	-
Fixing screw spec for rear mount	10 mm mount	-	-	-	-	-	-
	15 mm mount	-	-	-	-	-	-
	20 mm mount	-	-	-	-	-	-
	25 mm mount	-	-	-	-	-	-
	30 mm mount	-	-	-	-	-	-
	35 mm mount	-	-	-	-	-	-
Recommended brake lever		BL-M6100 BL-MT501 BL-T6000	BL-M6100 BL-MT501 BL-T6000	BL-MT501	BL-MT500	BL-MT401, BL-MT402-3A	BL-M4100, BL-MT401, BL-MT402-3A
Recommended disc brake rotor		SM-RT54 *, SM-RT56 *, SM-RT64, SM-RT66	SM-RT54 ****, SM-RT56 ****, SM-RT64, SM-RT66	SM-RT70	SM-RT54 * SM-RT56	SM-RT30 *, SM-RT54 *, SM-RT56 *, SM-RT64	SM-RT30 *, SM-RT54 *, SM-RT56 *
Compatible rotor size	140 mm (S)	✓	✓	✓	-	✓	✓
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	✓	✓	✓	✓	✓	✓
	203 mm (L)	✓	✓	✓	-	✓	✓
	220 mm (LL)	✓	-	✓	-	✓	-
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓	✓
Mount type		Post type	Post type	Post type	Post type	Post type	Post type
Piston		4	2	4	2	4	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	5 mm	5 mm	5 mm	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		Split pin (stainless steel)	Split pin (stainless steel)	Split pin	Split pin (stainless steel)	Split pin	Split pin (stainless steel)
Average weight (g)		-	-	-	-	-	-
Average weight (g) (kit for front 800 mm, w/ pad (Standard 1), w/o adapter, w/ 2 screws)		-	-	-	-	-	-
Note		*: Only compatible with resin pad	J-Kit spec available * T6000 kit only ** M6000 kit only *** Both M6000 kit and T6000 kit **** Only compatible with resin pad		* Only compatible with resin pad	* Only compatible with resin pad	* Only compatible with resin pad

Brake (Hydraulic Disc Brake)

Series	SHIMANO	
Model no.	BR-MT200	
Color	1	Black
	2	-
	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	B055-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-MT201 BL-MT200	
Recommended disc brake rotor	SM-RT10 * SM-RT26 *	
Compatible rotor size	140 mm (SS)	✓
	160 mm (S)	✓
	180 mm (M)	✓
	203 mm (L)	-
	220 mm (LL)	-
Oil	SHIMANO mineral	
ONE WAY BLEEDING	✓	
Mount type	Post type	
Piston	2	
Piston material	Resin	
Caliper	MONO-BODY	-
	Material	Aluminum
	Finish	Painted
Caliper fixing screw	Material	Steel
	Tool size	5 mm
	Anti loosen method	Snap ring
Pad mount	Split pin	
Average weight (g)	-	
Average weight (g) (kit for front 800 mm, w/ pad (Standard 1), w/o adapter, w/ 2 screws)	-	
Note	* Only compatible with resin pad	

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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	B055-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 type
Piston		1
Piston material		-
Caliper	MONO-BODY	-
	Material	Aluminum
	Finish	Painted
Caliper fixing screw	Material	Steel
	Tool size	5 mm
	Anti loosen method	Snap ring
Pad mount		Split pin
Average weight (g)		-
Note		

Brake (V-BRAKE)

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

Crankset

MTB

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 2	Series color	Series color	Series color	Series color	Series color	Series color
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	HG 12-speed
Chain line (mm)	55	55	48.8	51.8	52	52	
O.L.D.	Thru (mm) QR/Nut (mm)	148 -	148 -	142 135	148 141	142, 148 135, 141	142, 148 135, 141
P.C.D. (mm)	Direct	Direct	Direct	Direct	Direct	Direct	Direct
Spider/gear arms	-	-	4	4	4	4	
Chaining 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)	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)	-	-	-	-	-	-
Axle length of BB-UN/ES (mm)	Press-Fit	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A
	68	✓	✓	✓	✓	✓	✓
Threaded bottom bracket shell width (mm)	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	-	-	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	-	Anodized	Anodized	Anodized	Anodized
Inner ring fixing screw	Material	-	-	Aluminum	Aluminum	-	-
	Finish	-	-	Anodized	Anodized	-	-
Stainless chain guard fixing screw							
Crank fixing screw included							
Average weight (g) (170 mm, w/o bottom bracket)	571 (30T)	582 (28T)	-	606	627	527 (30T)	546 (30T)
	572 (32T)	587 (30T)	-			530 (32T)	549 (32T)
	577 (34T)	588 (32T)	-			543 (34T)	563 (34T)
	586 (36T)	593 (34T)	-			542 (36T)	562 (36T)
	592 (38T)	-	-			550 (38T)	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 2	Series color	Series color	Series color	Series color	Series color	Series color	
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	HG 12-speed	
Chain line (mm)	55	56.5	55	48.8	51.8	52	-	
O.L.D.	Thru (mm) QR/Nut (mm)	148 -	157 -	148 -	142 135	148 141	142, 148 135, 141	
P.C.D. (mm)	Direct	Direct	Direct	Direct	Direct	Direct	Direct	
Spider/gear arms	4	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)	160	-	-	✓	-	-	-	
	165	✓	✓	✓	✓	✓	✓	
	167.5	-	-	-	-	-	-	
	170	✓	✓	✓	✓	✓	✓	
	172.5	-	-	-	-	-	-	
	175	✓	✓	✓	✓	✓	✓	
	177.5	-	-	-	-	-	-	
	180	-	-	-	✓	✓	✓	
	With bash guard	-	-	-	-	-	-	
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-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)	68	✓	✓	✓	✓	✓	✓	
Threaded bottom bracket shell width (mm)	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	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Inner ring fixing screw	Material	-	-	-	Aluminum	Aluminum	-	
	Finish	-	-	-	Anodized	Anodized	-	
Stainless chain guard fixing screw		-	-	-	-	-	-	
Crank fixing screw included		✓	✓	✓	✓	✓	✓	
Average weight (g) (170 mm, w/o bottom bracket)	578 (32T) 592 (34T)		559 (30T) 562 (32T) 576 (34T)		580 (28T) 582 (30T) 594 (32T) 597 (34T) 607 (36T)		657 668	
	Note						612 (28T) 626 (30T) 624 (32T) 637 (34T) 655 (36T)	

Crankset

MTB

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 2	Series color	Series color	Series color	Series color	Series color
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) QR/Nut (mm)	148 141	157 -	142 135	148 141	142, 148 135, 141
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)	160	-	-	-	-	-
	165	✓	✓	✓	✓	✓
	167.5	-	-	-	-	-
	170	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-
	175	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-
	180	✓	✓	-	-	-
	With bash guard	-	-	-	-	-
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-MT801	BB-MT801	BB-MT801	BB-MT801	BB-MT801
	Threaded (E-type)	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-
Axle length of BB-UN/ES (mm)	Press-Fit	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA
	68	✓	✓	✓	✓	✓
Threaded bottom bracket shell width (mm)	73	✓	✓	✓	✓	✓
	83	-	-	-	-	-
Chain case compatible						
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-
	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)
	Finish	Painted (teeth), Anodized (arm)	Painted (teeth), Anodized (arm)	Painted	Painted	Plated (teeth), Painted (body)
Middle ring	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Inner ring	Material	-	-	Steel	Steel	-
	Finish	-	-	Painted	Painted	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
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)	628 (28T)	663	674	623 (30T)	631 (30T)
	634 (30T)	643 (32T)			620 (32T)	628 (32T)
	632 (32T)	641 (32T)			635 (34T)	643 (34T)
	646 (34T)	654 (34T)				
	664 (36T)	672 (36T)				
Note						

Crankset

Series		SLX	DEORE	DEORE	DEORE	SHIMANO	SHIMANO
Model no.		FC-M7130-1	FC-M6100-1	FC-M6120-1	FC-M6130-1	FC-MT610-2	FC-MT610-B2
Color	1 2	Series color	Series color	Series color	Series color	Black	Black
Rear speeds	12	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	HG 12-speed
Chain line (mm)	56.5	52	55	56.5	48.8	51.8	
O.L.D.	Thru (mm) QR/Nut (mm)	157 - 135, 141	142, 148 135, 141	148 141	157 -	142 135	148 141
P.C.D. (mm)	Direct	Direct	Direct	Direct	Direct	Direct	Direct
Spider/gear arms	4	4	4	4	4	4	4
Chainring combination	30T, 32T, 34T	30T, 32T	30T, 32T	30T, 32T	36-26T	36-26T	
Q-factor (mm)	181	172	178	181	172.9	172.9	178.9
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	✓	✓	✓	-	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	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	BB-MT501	BB-MT501
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	BB-MT800-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axe length of BB-UN/ES (mm)							
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible							
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	Aluminum	Aluminum
	Finish	-	-	-	-	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Steel (teeth), GFRP (body), Aluminum(arm)	Aluminum	Aluminum			
	Finish	Plated (teeth), Painted (body)	Painted (teeth), Painted (arm)	Painted (teeth), Painted (arm)	Painted (teeth), Painted (arm)	Painted	Painted
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	-	-	-	-	Steel	Steel
	Finish	-	-	-	-	Painted	Painted
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing screw	Material	-	-	-	-	Stainless steel	Stainless steel
	Finish	-	-	-	-	Painted	Painted
Stainless chain guard fixing screw							
Crank fixing screw included							
Average weight (g) (170 mm, w/o bottom bracket)		639 (30T) 636 (32T) 651 (34T)	-	-	-	-	-
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 2	Black	Black	Black	Series color	Series color	Series color
Rear speeds	12	12	12	11	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	LINKGLIDE, HG 11-speed
Chain line (mm)	52	52	55	53.4	51.8	53.4	
O.L.D.	Thru (mm) QR/Nut (mm)	142, 148 135, 141	142, 148 135, 141	148 141	148 141	148 141	
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)	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)	68	✓	✓	✓	✓	✓	✓
Threaded bottom bracket shell width (mm)	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	Ti + 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				<ul style="list-style-type: none"> - Chain line 3 mm outboard, - It requires special dimension of frame which cassette position and front derailleuer mount position are 3 mm outboard - Only E type and D type front derailleuer are compatible with the special frame. 		<ul style="list-style-type: none"> - Chain line 3 mm outboard. - It requires special dimension of frame which cassette position and front derailleuer mount position are 3 mm outboard. - Only E type and D type front derailleuer are compatible with the special frame. 	

Crankset

Series		DEORE XT	DEORE	DEORE	DEORE	SHIMANO	SHIMANO
Model no.		FC-M8000-B2	FC-M5100-1	FC-M5100-2	FC-M5100-B2	FC-MT700-B2	FC-MT600-2
Color	1	Series color	Series color	Series color	Series color	Black	Black
	2	-	-	-	-	-	-
Rear speeds		11	11/10	11	11	11	11
Compatible chain		LINKGLIDE, HG 11-speed	HG 11-speed, HG-X 10-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Chain line (mm)		51.8	52	48.8	51.8	51.8	48.8
O.L.D.	Thru (mm)	148	142, 148	142	148	148	142
	QR/Nut (mm)	141	135, 141	135	141	141	135
P.C.D. (mm)		96/64	96	96/64	96/64	96/64	96/64
Spider/gear arms		4	4	4	4	4	4
Chainring combination		34-24T, 36-26T	30T, 32T	36-26T	36-26T	34-24T, 36-26T	36-26T
Q-factor (mm)		176	178.5	178.5	178.5	175	177
Crank arm length (mm)	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	BB-MT801	BB-MT801
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	BB-MT800-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT800-PA	BB-MT800-PA
Axe 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	Aluminum +GF composite	Aluminum +GF composite
	Finish	Plated (teeth), Painted (body)	Painted	Painted	Painted	Plated (teeth)	Anodized
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	-	Steel	Steel	Aluminum	Steel
	Finish	Plated	-	Painted	Painted	Plated	Painted
Outer/middle ring fixing bolt	Material	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Painted	Painted	Painted	-	-
Inner ring fixing screw	Material	Stainless steel	-	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)		688 (34-24T) 711 (36-26T)	-	-	-	701 (34-24T) 728 (36-26T)	-
Note		<ul style="list-style-type: none"> - 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

MTB

Series		SAINT	SAINT	DEORE XT	ZEE	ZEE	DEORE
Model no.		FC-M820	FC-M825	FC-M785	FC-M640	FC-M645	FC-M6000-2
Color	1 2	Series color	Series color	Black Silver	Series color	Series color	Series black
Rear speeds	10	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	HG-X 10-speed
Chain line (mm)	50.4	57.9	48.8	50.4	57.9	48.8	
O.L.D.	Thru (mm) QR/Nut (mm)	142 135	150, 157	142 135	142 135	150, 157	142 135
P.C.D. (mm)	104	104	104/64	104	104	104	96/64
Spider/gear arms	4	4	4	4	4	4	4
Chainring combination	34T, 36T, 38T (SM-CR82)	34T, 36T, 38T (SM-CR82)	38-24T, 38-26T, 40-28T	34T, 36T, 38T (FC-M640/M645 chainring)	34T, 36T, 38T (FC-M640/M645 chainring)	34-24T, 36-26T, 38-28T	
Q-factor (mm)	178	193	175	174.7	189.7	176	
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	✓	✓	✓	✓	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	✓	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	✓	-	-	✓
2-PIECE CRANKSET		-	-	-	✓	✓	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB80	SM-BB80	-	BB-MT501	BB-MT501	BB-MT501
	Threaded (E-type)	-	-	-	SM-BB52	SM-BB52	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-Fit	SM-BB71-41A	SM-BB71-41C	SM-BB71-41A	SM-BB71-41A	SM-BB71-41C	BB-MT500-PA
Axle length of BB-UN/ES (mm)	68	✓	-	✓	✓	-	✓
Threaded bottom bracket shell width (mm)	73	✓	-	✓	✓	-	✓
	83	-	✓	-	-	✓	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
	Finish	Painted	Painted	Painted	-	-	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	-	-	Aluminum	-	-	Aluminum +GF composite
	Finish	-	-	Anodized	-	-	Anodized
Middle ring	Material	Aluminum	Aluminum	-	Aluminum	Aluminum	-
	Finish	Anodized	Anodized	-	Anodized	Anodized	-
Inner ring	Material	-	-	Aluminum	-	-	Steel
	Finish	-	-	Plated	-	-	Painted
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Anodized	Anodized	-	-	Painted
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)	814 (34T) 824 (36T) 834 (38T)	825 (34T) 836 (36T) 845 (38T)	706 (38-24T) 708 (38-26T) 718 (40-28T)	797 (34T) 807 (36T) 818 (38T)	827 (34T) 837 (36T) 848 (38T)	-	
Note		For 83 mm bottom bracket shell width			For 83 mm bottom bracket shell width		

Crankset

Series		DEORE	DEORE	DEORE	DEORE	SHIMANO	SHIMANO
Model no.		FC-M4100-2	FC-M4100-B2	FC-M617	FC-M617-B2	FC-MT500-2	FC-MT500-3
Color	1 2	Series color	Series color	Black Silver	Black Silver	Black	Black
Rear speeds	10	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	HG-X 10-speed
Chain line (mm)	48.8	51.8	48.8	51.8	48.8	50	
O.L.D.	Thru (mm) QR/Nut (mm)	142 135	148 141	142 135	148 141	142 135	142 135
P.C.D. (mm)	96/64	96/64	104/64	104/64	96/64	96/64	
Spider/gear arms	4	4	4	4	4	4	4
Chainring combination	36-26T	36-26T	36-22T, 38-24T	36-22T	36-26T	36-26T	40-30-22T
Q-factor (mm)	178.5	178.5	176	176	177	177	177
Crank arm length (mm)	160	-	-	-	-	-	-
	165	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	-	-	-	✓
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II							
2-PIECE CRANKSET							
HOLLOWTECH crank arm							
OCTALINK							
HOLLOWGLIDE							
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-MT501	BB-MT501	BB-MT501	BB-MT501	BB-MT501	BB-MT501
	Threaded (E-type)	-	-	SM-BB52	SM-BB52	-	SM-BB52
	Threaded (chain case)	-	-	-	-	-	-
Press-Fit	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
	Axle length of BB-UN/ES (mm)	-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible							
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	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	Steel	Steel	Aluminum	Aluminum	Aluminum +GF composite	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	-	-	-	-	-	Steel
	Finish	-	-	-	-	-	Plated
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel *				
	Finish	Painted	Painted	-	-	-	-
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							* It is fixed on the threaded middle ring.

Crankset

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		FC-M627-B	FC-MT210-3	FC-MT210-2	FC-MT210-B2	FC-MT200	FC-MT101-2	
Color	1 2	Black	Black	Black	Black	Black	Black	
Rear speeds	10	-	9	9	9	9	9	
Compatible chain	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	
Chain line (mm)	51.8	50	48.8	51.8	50	48.8		
O.L.D.	Thru (mm) QR/Nut (mm)	148 141	142 135	142 135	148 141	142 135	142 135	
P.C.D. (mm)	104/64	Riveted	Riveted	Riveted	Riveted	Riveted	Riveted	
Spider/gear arms	4	4	4	4	4	4	4	
Chainring combination	36-22T	40-30-22T, 44-32-22T	36-22T, 46-30T	36-22T	40-30-22T	36-22T		
Q-factor (mm)	176	176	176	176	176	176	179.4	
Crank arm length (mm)	160	-	-	-	-	-	-	
	165	-	-	-	-	-	-	
	167.5	-	-	-	-	-	-	
	170	✓	✓	✓	✓	✓	✓	
	172.5	-	-	-	-	-	-	
	175	✓	✓	✓	✓	✓	✓	
	177.5	-	-	-	-	-	-	
	180	-	-	-	-	-	-	
	With bash guard	-	-	-	-	-	-	
Optional chain guard	With chain guard	-	✓	- (36-22T), ✓ (46-30T)	-	✓	-	
	Without chain/bash guard	✓	✓	✓	✓	✓	✓	
	HOLLOWTECH II 2-PIECE CRANKSET	-	-	-	-	-	-	
HOLLOWTECH crank arm								
OCTALINK								
HOLLOWGLIDE								
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	-	
	OCTALINK	-	-	-	-	-	-	
	Square	-	-	-	-	-	✓	
Recommended bottom bracket	Threaded (normal)	BB-MT501	BB-MT501	BB-MT501	BB-MT501	BB-MT501	BB-UN101	
	Threaded (E-type)	SM-BB52	-	-	-	-	-	
	Threaded (chain case)	-	-	-	-	-	-	
Axe length of BB-UN/ES (mm)	Press-Fit	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	-	
	68	✓	✓	✓	✓	✓	✓	
Threaded bottom bracket shell width (mm)	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	Steel	-	
	Finish	Plated	Plated	Plated	Plated	Plated	-	
Spider arm	Material	Aluminum	-	-	-	-	-	
	Finish	Painted	-	-	-	-	-	
Spider arm cover	Material	-	Resin	Resin	Resin	-	Resin	
	Finish	-	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	-	
	Finish	-	Painted	-	-	Painted	-	
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Outer/middle ring fixing bolt	Material	Stainless steel	-	-	-	-	-	
	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		- Chain line 3 mm outboard - It requires special dimension of frame which cassette position and front derailleur mount position are 3 mm outboard - Only E type and D type front derailleur are compatible with the special frame		SHIMANO logo	-	Chain line 3 mm outboard	SHIMANO logo	SHIMANO logo

Crankset

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	DXR
Model no.		FC-MT101-B2	FC-MT101	FC-M371	FC-M315-2	FC-M315-B2	FC-MX71
Color	1 2	Black -	Black -	Black -	Black -	Black -	Series color -
Rear speeds	9	9	9	9	8/7	8/7	1
Compatible chain	HG 9-speed	HG 9-speed	HG 9-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	Single speed
Chain line (mm)	51.8	50	50	48.8	51.8	51.8	44
O.L.D.	Thru (mm) QR/Nut (mm)	148 141	142 135	142 135	142 135	148 141	142 135
P.C.D. (mm)	Riveted	Riveted	Riveted	Riveted	Riveted	Riveted	104/64
Spider/gear arms	4	4	4	4	4	4	4
Chainring combination	36-22T	40-30-22T, 44-32-22T	44-32-22T, 48-36-26T	36-22T	36-22T	34T, 38T, 41T, 42T, 43T, 44T, 46T	
Q-factor (mm)	179.4	179.2	180.5	179.4	179.4	179.4	173
Crank arm length (mm)	160	-	-	-	-	-	-
	165	-	-	-	-	-	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	✓
	With bash guard	-	-	-	-	-	-
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-UN101	BB-UN101	BB-UN300	BB-UN101	BB-UN101	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	BB-UN300-K	-	-	-
	Press-Fit	-	-	-	-	-	-
Axle length of BB-UN/E5 (mm)	LL123	LL123	LL123	LL123	LL123	LL123	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible							
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Anodized
Crank axle	Material	-	-	-	-	-	Steel
	Finish	-	-	-	-	-	Plated
Spider arm	Material	-	-	-	-	-	Aluminum
	Finish	-	-	-	-	-	Anodized
Spider arm cover	Material	Resin	Resin	Resin	Resin	Resin	-
	Finish	Resin	Resin	Resin	Resin	Resin	-
Outer ring	Material	Steel	Steel	Steel	Steel	Steel	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Anodized
Middle ring	Material	-	Steel	Steel	-	-	-
	Finish	-	Painted	Painted	-	-	-
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	-
	Finish	Painted	Painted	Painted	Painted	Painted	-
Outer/middle ring fixing bolt	Material	-	-	-	-	-	Aluminum
	Finish	-	-	-	-	-	Anodized
Inner ring fixing screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw							
Crank fixing screw included							
Average weight (g) (170 mm, w/o bottom bracket)		-	-	-	-	-	751 (w/o chainring)
Note		SHIMANO logo Chain line 3 mm outboard	SHIMANO logo	SHIMANO logo	SHIMANO logo	SHIMANO logo Chain line 3 mm outboard	BMX racing 68 mm bottom bracket shell width

Chain Device

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

SW

RD

FD

SMAD

SC

SL

SLMT

SMSL

BL

BL

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

CS

HB

FH

WH

CI-DECK

SC

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	SHIMANO	SHIMANO
Model no.		SM-CRM70	SM-CR82	SM-CR80-A
Color	1	Series color	Black	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	✓	✓*	✓
P.C.D. (mm)		96	104	104
Chainring	Material	Steel (teeth)/ GFRP (body)	Aluminum	Aluminum
	Finish	Plated (teeth)	Anodized	Anodized
Note		* SM-CD50 bash guard is compatible		

SW

RD

FD

SMAD

SC

SL

SLMT

SMSL

BL

BL

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

CS

HB

FH

WH

CI-DECK

SC

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		

SW

RD

FD

SMAD

SC

SL

SLMT

SMSL

BL

BL

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

CS

HB

FH

WH

CI-DECK

SC

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 2 3 4 5 6 7	9-11-13-15-17-*19-*21-*24-*28-*33-39-45T 10-12-14-16-18-*21-*24-*28-*33-39-45-51T - - - - - -	10-12-14-16-18-21-24-28-32-36-40-45T 10-12-14-16-18-21-24-28-33-39-45-51T - - - - - -	9-11-13-15-17-19-21-24-28-33-39-45T 10-12-14-16-18-21-24-28-33-39-45-51T - - - - - -
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)	-	-	-
Aluminum spider arm	QTY (pcs)	1	1	1
Steel spider arm	QTY (pcs)	-	-	-
Titanium gear	QTY (pcs)	5 (9-45T), 4 (10-51T)	5	-
Aluminum gear	QTY (pcs)	2 (9-45T), 3 (10-51T)	3	1 (9-45T), 2 (10-51T)
Steel gear	QTY (pcs)	5	4	11 (9-45T), 10 (10-51T)
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	SLX	DEORE	
Model no.	CS-M8100-12	CS-M7100-12	CS-M6100-12	
Type	HYPERGLIDE+	HYPERGLIDE+	HYPERGLIDE+	
Rear speeds	12	12	12	
Compatible chain	HG 12-speed	HG 12-speed	HG 12-speed	
Combination name (Group name)	10-45T, 10-51T	10-45T, 10-51T	10-51T	
Combination * Titanium gear	1 2 3 4 5 6 7	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 10-12-14-16-18-21-24-28-33-39-45-51T - - - - - - -	10-12-14-16-18-21-24-28-33-39-45-51T - - - - - - -
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)	-	-	
Aluminum spider arm	QTY (pcs)	1	1	
Steel spider arm	QTY (pcs)	-	-	
Titanium gear	QTY (pcs)	-	-	
Aluminum gear	QTY (pcs)	2	1	
Steel gear	QTY (pcs)	10	11 12	
Lock ring	Material	Aluminum	Aluminum	
	Finish	Anodized	Anodized	
Average weight (g)		461 (10-45T) 470 (10-51T)	513 (10-45T) 534 (10-51T)	
Note				

Cassette

MTB

Series	DEORE XT	DEORE	DEORE XT
Model no.	CS-M8000	CS-M5100-11	CS-M771-10
Type	HG	HG	HG
Rear speeds	11	11	10
Compatible chain	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG-X 10-speed
Combination name (Group name)	11-40T (bs), 11-42T (bt), 11-46T (bu)	11-42T, 11-51T	11-32T (bl), 11-34T (bj), 11-36T (bk)
Combination * Titanium gear	1	11-13-15-17-19-21-24-27-31-35-40**T (bs)	11-12-14-16-18-20-22-25-28-32T (bl)
	2	11-13-15-17-19-21-24-28-32-37-42**T (bt)	11-13-15-17-19-21-23-26-30-34T (bj)
	3	11-13-15-17-19-21-24-28-32-37-46**T (bu)	11-13-15-17-19-21-24-28-32-36T (bk)
	4	-	-
	5	-	-
	6	-	-
	7	-	-
	MICRO SPLINE	-	-
Spline type	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)	-	-
	QTY (pcs)	-	-
	Finish	-	-
	Aluminum spider arm	QTY (pcs) 2	1
	Finish	Anodized	Painted
Steel spider arm	QTY (pcs)	-	-
	Finish	-	-
	Titanium gear	QTY (pcs)	-
	Finish	-	-
	Aluminum gear	QTY (pcs) 2	-
	Finish	-	-
	QTY (pcs)	9	11
	Finish	Shot-Ni	Plated
Lock ring	Material	Aluminum	Steel
	Finish	Anodized	Plated
	Average weight (g)	411 (11-40T), 434 (11-42T), 437 (11-46T)	-
	Note	** Aluminum gear	294 (11-32T) 323 (11-34T) 343 (11-36T)

Series	DEORE	SHIMANO	SHIMANO
Model no.	CS-M4100-10	CS-HG50-10	CS-HG201-9
Type	HG	HG	HG
Rear speeds	10	10	9
Compatible chain	HG-X 10-speed	HG-X 10-speed	HG 9-speed
Combination name (Group name)	11-42T, 11-46T	11-36T (bk)	11-32T (bo), 11-34T (bn), 11-36T (bw)
Combination * Titanium gear	1	11-13-15-18-21-24-28-32-37-42T	11-13-15-17-19-21-24-28-32-36T (bk)
	2	11-13-15-18-21-24-28-32-37-46T	-
	3	-	-
	4	-	-
	5	-	-
	6	-	-
	7	-	-
	MICRO SPLINE	-	-
Spline type	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)	-	-
	QTY (pcs)	-	-
	Finish	-	-
	Aluminum spider arm	QTY (pcs)	-
	Finish	-	-
Steel spider arm	QTY (pcs)	1	1
	Finish	Plated	Nickel plated
	QTY (pcs)	-	-
	Finish	-	-
	QTY (pcs)	-	-
	Finish	-	-
	QTY (pcs)	10	10
	Finish	Plated	Nickel plated (Top gear: Phosphate coated)
Lock ring	Material	Steel	Steel
	Finish	Plated	Chrome plated
	Average weight (g)	-	-
	Note	-	-

Cassette

Series	SHIMANO	DXR
Model no.	CS-HG200-9	CS-MX66
Type	HG	Single sprocket for FH-MX70
Rear speeds	9	Single
Compatible chain	HG 9-speed	1/2 x 3/32
Combination name (Group name)	11-32T (bo), 11-34T (bn), 11-36T (bw)	-
Combination *	1 2 3 4 5 6 7	11-13-15-17-19-21-24-28-32T (bo) 11-13-15-17-20-23-26-30-34T (bn) 11-13-15-17-20-23-26-30-36T (bw)
Titanium gear	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) Finish	9 1
Lock ring	Material Finish	Steel Phosphate coated Steel Chrome plated
Average weight (g)	-	-
Note		For BMX racing

Front Hub (Disc Brake)

Series		XTR	XTR	XTR	XTR	SAINT	DEORE XT
Model no.		HB-M9210-B	HB-M9110	HB-M9110-B	HB-M9110-BS	HB-M820	HB-M8210-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)		110	100	110	110	110	110
Spoke hole	28H	✓	✓	✓	✓	-	✓
	32H	✓	✓	✓	-	✓	✓
	36H	-	-	-	-	✓	-
External serration, disc brake rotor lock ring	With	-	-	-	-	✓	-
	Without	✓	✓	✓	✓	-	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axe fixing method		15 mm E-THRU	15 mm E-THRU	15 mm E-THRU	15 mm E-THRU	20 mm Thru	15 mm E-THRU
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	✓	-	-	-	-
	110 x 15	✓	-	✓	✓	-	✓
	110 x 20	-	-	-	-	✓	-
Flange distance (mm)		70.2	60.2	70.2	62.76	61.6	70.2
Offset (mm)		5.4	5.4	5.4	3.63	5.6	5.4
P.C.D. left / right (mm)		44	44/44	44/44	45	52	44
Flange diameter left / right (mm)		52.8	52.8	52.8	51	59.6	52.8
Seal		Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
Internal grease sleeve		-	-	-	-	-	-
Bearing	Stainless ball	-	✓	✓	✓	✓	-
	Cup	-	Grinded	Grinded	Grinded	CBN	-
	Cone	-	CBN	CBN	CBN	CBN	-
	Cartridge	SUS radial	-	-	-	-	SUJ2 radial
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axe	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	Aluminum	Aluminum	Aluminum	Aluminum	-
	Finish	-	Anodized	Anodized	Anodized	Anodized	-
Average weight (g)		121	132	137	146	202	130
Note		-	-	For straight spoke ERD: 550 - 610 mm Rim offset: 0 - 3 mm Intersections: 3 cross only including spoke heads in hub shell. Some spoke calculators may call this 2 cross. Contact the nearest SHIMANO sales office for more information	Axle is supplied with front fork.		

Front Hub (Disc Brake)

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

Front Hub (Disc Brake)

Series		SLX	SLX	DEORE	DEORE	DEORE	SHIMANO
Model no.		HB-M7110	HB-M7110-B	HB-M6000	HB-M6010	HB-M5100	HB-MT410
Color	1 Hub shell	Series color	Series color	Series black	Series black	Series black	Black
	1 Quick release	-	-	Series black	-	Series black	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake					
O.L.D. (mm)		100	110	100	100	100	100
Spoke hole	28H	✓	✓	-	-	-	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	-	-	✓	✓	✓	✓
External serration, disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axe fixing method		15 mm E-THRU	15 mm E-THRU	Quick release	15 mm E-THRU	Quick release	15 mm E-THRU
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	-	-	✓	-	✓	-
Thru axle (length x inner diameter ; mm)	100 x 15	✓	-	-	✓	-	✓
	110 x 15	-	✓	-	-	-	-
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		60.2	70.2	60.2	60.2	60.2	60.2
Offset (mm)		5.7	5.7	5.6	5.3	5.6	5.3
P.C.D. left / right (mm)		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	Polish	Polish	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN	-
	Cartridge	-	-	-	-	-	✓
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Axe	Material	Aluminum	Aluminum	Steel	Aluminum	Steel	-
	Finish	Anodized	Anodized	-	Anodized	-	-
Quick release lever	Material	-	-	Aluminum	-	Aluminum	-
	Finish	-	-	Anodized	-	Anodized	-
Quick release housing	Material	-	-	Aluminum	-	Aluminum	-
	Finish	-	-	Anodized	-	Anodized	-
Quick release nut	Material	-	-	Steel+Resin	-	Steel+Resin	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	Steel	-	-
	Finish	-	-	-	-	-	-
Average weight (g)		142	147	-	-	-	-
Note							

SW

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CI-DECK

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Front Hub (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		HB-MT410-B	HB-M525A	HB-M475	HB-M4050	HB-M3050	HB-MT400
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	Black	Black	Black	Black	-
	2 Hub shell	-	Silver	Silver	Silver	-	-
	2 Quick release	-	Silver	Silver	Silver	-	-
Brake type		CENTER LOCK disc brake	6-bolt disc brake	6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		110	100	100	100	100	100
Spoke hole	28H	✓	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
External serration, disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	-	-	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axe fixing method		15 mm E-THRU	Quick release	Quick release	Quick release	Quick release	15 mm E-THRU
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	-	✓	✓	✓	✓	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	-	-	-	✓
	110 x 15	✓	-	-	-	-	-
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		70.2	59.2	59.2	60.2	60.2	60.2
Offset (mm)		5.3	5.7	5.5	5.6	5.5	5.3
P.C.D. left / right (mm)		44/44	61/61	61/61	44/44	44/44	44/44
Flange diameter left / right (mm)		52.8	70.6	70.6	52.8	52.8	52.8
Seal		Labyrinth+Contact	Labyrinth+Contact	Contact	Labyrinth+Contact	Contact	Labyrinth+Contact
Internal grease sleeve		-	-	-	-	-	✓
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	CBN	-	-	-	-
	Cartridge	✓	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Anodized	Anodized	Painted
Axe	Material	-	Steel	Steel	Steel	Steel	Aluminum
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	Aluminum	Steel, Aluminum	Aluminum	Steel	-
	Finish	-	Anodized	Plated, Painted	Painted	Plated	-
Quick release housing	Material	-	Aluminum	Steel, Aluminum	Steel	Steel	-
	Finish	-	Anodized	Painted, Anodized	Plated	Plated	-
Quick release nut	Material	-	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	Steel
	Finish	-	-	-	-	-	-
Average weight (g)		-	-	-	-	-	-
Note		-	-	-	-	-	-

Front Hub (Disc Brake)

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

SW

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FREEHUB (Disc Brake)

Series		XTR	XTR	XTR	XTR	SAINT	SAINT
Model no.		FH-M9210-B	FH-M9111	FH-M9111-B	FH-M9111-BS	FH-M820	FH-M825
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			
Rear speeds		12	12	12	12	11/10/9/8/7	11/10/9/8/7
O.L.D. (mm)		148	142	148	148	135	150
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	Thru	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	55.89	63.06	56.0	57.4	72.4
Offset (mm)		7	7.05	7.02	6.8	6.4	6.6
P.C.D. left / right (mm)		47.25/61	50/61	47.25/61	45/61	44/45	44/45
Flange diameter left / right (mm)		68.8/69.8	59/70	56.25/70	51/68.4	52.8/53.8	52.8/53.8
Spline type	MICRO SPLINE	✓	✓	✓	✓	-	-
	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		Direct engagement	Direct engagement	Direct engagement	Direct engagement	Pawl ratchet	Pawl ratchet
Quick engagement		✓ (max 3.5 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 deg.)
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	Labyrinth+Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	-	✓	✓
Bearing	Stainless ball	-	✓	✓	✓	-	-
	Cup	-	Grinded	Grinded	Grinded	Grinded	Grinded
	Cone	-	CBN	CBN	CBN	CBN	CBN
FREEHUB body	Cartridge	SUS radial	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axe	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	-	-
Quick release lever	Material	-	-	-	-	-	-
Quick release lever	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
Quick release housing	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
Quick release nut	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Disc brake rotor lock ring	Finish	-	Anodized	Anodized	Anodized	Anodized	Anodized
Average weight (g) (w/o axle, quick release nor lock ring)		231	237	238	241	347 (ø10) 333 (ø12)	348
Note					* For straight spoke, Lacing pattern limited to 3-cross, non-offset rim For details, refer to Products Technical Information		

FREEHUB (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		FH-M8210-B	FH-M8110	FH-M8110-B	FH-M8110-BS	FH-M8130-B	FH-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			
Rear speeds		12	12	12	12	12	11/10/9/8/7
O.L.D. (mm)		148	142	148	148	157	135
Spoke hole	28H	✓	✓	✓	✓	✓	-
	32H	✓	✓	✓	-	✓	✓
	36H	-	✓	✓	-	-	-
10 tooth cog compatible		✓	✓	✓	✓	✓	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release
Quick release skewer length (mm)	166	-	-	-	-	-	-
	168	-	-	-	-	-	✓
	170	-	-	-	-	-	-
	172	-	-	-	-	-	-
	173	-	-	-	-	-	✓
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	✓	-	-	-	-
	148 x 12	✓	-	✓	✓	-	-
	150 x 12	-	-	-	-	-	-
	157 x 12	-	-	-	-	✓	-
Flange distance (mm)		62.2	55.17	62.16	55.95	72.69	57.4
Offset (mm)		6.6	6.72	6.6	6.78	6.43	6.9
P.C.D. left / right (mm)		60/61	61/61	60/61	45/61	58/61	44/45
Flange diameter left / right (mm)		68.8/69.8	69.8/69.8	68.8/69.8	51/68.4	66.8/69.8	52.8/53.8
Spline type	MICRO SPLINE	✓	✓	✓	✓	✓	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Direct engagement	Direct engagement	Direct engagement	Direct engagement	Direct engagement	Pawl ratchet
Quick engagement		✓ (max 3.5 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (more than 36 times/360 deg.)
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	Labyrinth+Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	-	-	✓
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	Polish	Polish	Polish	Polish	-
	Cone	-	CBN+Polish	CBN+Polish	CBN+Polish	CBN+Polish	CBN
	Cartridge	SUJ2 radial	-	-	-	-	-
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axe	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-	Aluminum
	Finish	-	-	-	-	-	Anodized
Quick release housing	Material	-	-	-	-	-	Aluminum
	Finish	-	-	-	-	-	Anodized
Quick release nut	Material	-	-	-	-	-	Steel+Resin
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		251	305	307	306	310	331
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	SLX	SLX	SLX	DEORE
Model no.		FH-M8010	FH-M8010-B	FH-M7110	FH-M7110-B	FH-M7130-B	FH-M6000
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	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
Rear speeds		11/10/9/8/7	11/10/9/8/7	12	12	12	11/10/9/8/7
O.L.D. (mm)		142	148	142	148	157	135
Spoke hole	28H	-	-	✓	✓	✓	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	-	✓	✓	-	✓
10 tooth cog compatible		-	-	✓	✓	✓	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release
Quick release skewer length (mm)	166	-	-	-	-	-	-
	168	-	-	-	-	-	✓
	170	-	-	-	-	-	-
	172	-	-	-	-	-	-
	173	-	-	-	-	-	✓
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	✓	-	✓	-	-	-
	148 x 12	-	✓	-	✓	-	-
	150 x 12	-	-	-	-	-	-
	157 x 12	-	-	-	-	✓	-
Flange distance (mm)		57.4	63.4	55.17	62.16	72.69	57.4
Offset (mm)		6.4	6.4	6.72	6.6	6.43	6.6
P.C.D. left / right (mm)		44/45	44/45	61/61	60/61	58/61	45
Flange diameter left / right (mm)		52.8/53.8	52.8/53.8	69.8/69.8	68.8/69.8	66.8/69.8	53.8
Spline type	MICRO SPLINE	-	-	✓	✓	✓	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓	✓	-	-	-	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Pawl ratchet	Pawl ratchet	Direct engagement	Direct engagement	Direct engagement	Pawl ratchet
Quick engagement		✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 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	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		✓	✓	-	-	-	✓
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	Polish	Polish	Polish	-
	Cone	CBN	CBN	CBN+Polish	CBN+Polish	CBN+Polish	CBN
	Cartridge	-	-	-	-	-	-
FREEHUB body	Material	Steel	Steel	Aluminum	Aluminum	Aluminum	Steel
	Finish	-	-	Anodized	Anodized	Anodized	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axe	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Anodized	Anodized	-	-	-	-
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)		359	367	350	354	359	-
Note							

FREEHUB (Disc Brake)

MTB

Series		DEORE	DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-M6010	FH-M5100	FH-MT410	FH-MT410-B	FH-MT401	FH-MT401-B
Color	1 Hub shell	Series black	Series black	Black	Black	Black	Black
	1 Quick release	-	Series black	-	-	Black	Black
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		11/10/9/8/7	11/10/9/8/7	12	12	12	12
O.L.D. (mm)		142	135	142	148	135	141
Spoke hole	28H	-	-	✓	✓	✓	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	-	✓	✓	✓	✓	✓
10 tooth cog compatible		-	-	✓	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	-	-	-	-
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	-	-	-	-
CENTER LOCK mount cover option		-	-	-	-	-	-
Axe fixing method		12 mm E-THRU	Quick release	12 mm E-THRU	12 mm E-THRU	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)		57.4	55.45	55.17	61.6	55.17	61.6
Offset (mm)		6.4	7.6	6.72	6.6	6.72	6.6
P.C.D. left / right (mm)		44/45	45	61/61	60/61	61/61	60/61
Flange diameter left / right (mm)		52.8/53.8	53.8	69.8/69.8	68.8/69.8	69.8/69.8	68.8/69.8
Spline type	MICRO SPLINE	-	-	✓	✓	✓	✓
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓	✓	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
	Engagement type	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		✓ (more than 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		✓	✓	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	-	-	-	-
	Cartridge	-	-	✓	✓	✓	✓
FREEHUB body		Material	Steel	Steel	Steel	Steel	Steel
Finish		-	-	-	-	-	-
Hub shell		Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Finish		Anodized	Anodized	Painted	Painted	Painted	Painted
Axe		Material	Steel	Steel	Steel	Steel	Steel
Finish		-	-	-	-	-	-
Quick release lever		Material	-	Aluminum	-	Aluminum	Aluminum
Finish		-	-	Painted	-	Painted	Painted
Quick release housing		Material	-	Aluminum	-	Steel	Steel
Finish		-	-	Painted	-	Painted	Painted
Quick release nut		Material	-	Steel+Resin	-	Steel+Resin	Steel+Resin
Finish		-	-	-	-	-	-
Disc brake rotor lock ring		Material	-	-	-	-	-
Finish		-	-	-	-	-	-
Average weight (g) (w/o axe, quick release nor lock ring)		-	-	-	-	-	-
Note							

SW

RD

FD

SMAD

SC

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SLMT

SMSL

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BL

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BR

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SMCD

SMCR

BB

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HB

FH

WH

CI-DECK

SC

FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-M525A	FH-M475	FH-M4050	FH-M3050	FH-MT400	FH-MT400-B
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	-	-	-
	2 Hub shell	Silver	Silver	Silver	-	-	-
	2 Quick release	Black	Black	Black	-	-	-
Brake type		6-bolt disc brake	6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		11/10/9/8/7	11/10/9/8/7	11/10/9/8/7	11/10/9/8/7	11/10/9/8/7	11/10/9/8/7
O.L.D. (mm)		135	135	135	135	142	148
Spoke hole	28H	-	-	-	-	-	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
10 tooth cog compatible		-	-	-	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		Quick release	Quick release	Quick release	Quick release	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	166	-	✓	-	✓	-	-
	168	✓	-	✓	-	-	-
	170	-	✓	-	✓	-	-
	172	-	-	-	-	-	-
	173	✓	✓	✓	-	-	-
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	✓	-
	148 x 12	-	-	-	-	-	✓
	150 x 12	-	-	-	-	-	-
	157 x 12	-	-	-	-	-	-
Flange distance (mm)		57.1	57.1	57.4	57.4	57.4	63.4
Offset (mm)		6.8	6.8	6.6	6.6	6.65	6.65
P.C.D. left / right (mm)		61/61	61/61	45/45	45/45	44/45	44/45
Flange diameter left / right (mm)		70.6	70.6	53.8	53.8	52.8/53.8	52.8/53.8
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/ 8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓	✓	✓	✓	✓	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		-	-	-	-	✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 deg.)
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	Contact	-	Contact	-	Contact	Contact
Internal grease sleeve		-	-	✓	-	✓	✓
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	-	CBN	-	CBN	CBN
	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	Painted	Painted
Axe	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	Aluminum	Steel, Aluminum	Aluminum	Steel	-	-
	Finish	Anodized	Plated, Painted	Painted	Plated	-	-
Quick release housing	Material	Aluminum	Steel, Aluminum	Steel	Steel	-	-
	Finish	Anodized	Painted, Anodized	Plated	Plated	-	-
Quick release nut	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		-	-	-	-	-	-
Note		-	-	-	-	-	-

FREEHUB (Disc Brake)

Series		SHIMANO
Model no.		FH-MT200-B
Color	1 Hub shell	Black
	1 Quick release	-
	2 Hub shell	-
	2 Quick release	-
Brake type		CENTER LOCK disc brake
Rear speeds		11/10/9/8/7
O.L.D. (mm)		141
Spoke hole	28H	✓
	32H	✓
	36H	✓
10 tooth cog compatible		-
External serration disc brake rotor lock ring	With	-
	Without	✓
Internal serration disc brake rotor lock ring	With	-
	Without	✓
CENTER LOCK mount cover option		-
Axle fixing method		Quick release
Quick release 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)		63.4
Offset (mm)		6.65
P.C.D. left / right (mm)		45/45
Flange diameter left / right (mm)		53.8
Spline type	MICRO SPLINE	-
	HG spline L2 (ROAD 12-speed dedicated)	-
	HG spline L (ROAD 12/11-speed)	-
	HG spline M (10/9/8-speed MTB 11-speed 7-speed CS-HG400/HG210)	✓
	HG spline S (7-speed)	-
	Engagement type	Pawl ratchet
Quick engagement		-
Seal	Hub	Contact
	FREEHUB body	-
Internal grease sleeve		-
Bearing	Stainless ball	-
	Cup	-
	Cone	-
	Cartridge	-
FREEHUB body	Material	Steel
	Finish	-
Hub shell	Material	Aluminum
	Finish	Painted
Axe	Material	Steel
	Finish	-
Quick release lever	Material	Steel
	Finish	Plated
Quick release housing	Material	Steel
	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		-

SW

RD

FD

SMAD

SC

SL

SLMT

SMSL

BL

BL

RD

FD

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BR

FC

SMCD

SMCR

BB

CS

HB

FH

WH

CI-DECK

SC

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	WH-M8200-TL-F15-B-275
Model name	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	WH-M8200-TL-F15-B-275
Specification							
Color	1 Hub shell 1 Quick release 2 Hub shell 2 Quick release	Series color					
Front/Rear	Front Rear	Front Rear	Front Rear	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	CENTER LOCK disc brake
Rear speeds	-	12	-	12	-	-	-
O.L.D. (mm)	110	148	110	148	110	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)	584 x 30TC (27.5 inch)
Tire	Type Recommended size	Tubeless ready 29 x 2.20 - 2.60	Tubeless ready 29 x 2.20 - 2.60	Tubeless ready 29 x 2.30 - 2.60	Tubeless ready 29 x 2.30 - 2.60	Tubeless ready 29 x 2.30 - 2.60	Tubeless ready 27.5 x 2.3 - 2.60
Rim	Height (mm) Internal width (mm) External width (mm) Rim joint Brazed reinforcement OFFSET RIM Requires rim tape	19.2 29.6 35 - ✓ ✓ (30-622)	19.2 29.6 35 - ✓ ✓ (30-622)	19.7 30 38 - ✓ ✓ (30-622)	19.7 30 38 - ✓ ✓ (30-622)	19.8 30 34.7 Welded X (30-622)	19.8 30 34.7 Welded ✓ (30-584)
Spokes	Number Straight pull J-bend Diameter (mm)	24 ✓ - 2.2-2.0-1.7-2.0	24 ✓ - 2.2-2.0-1.7-2.0	28 ✓ 2.0-1.6	28 ✓ 2.0-1.6	28 ✓ 2.0-1.8	28 ✓ 2.0-1.8
Axle fixing method	133 168 173 178 100 x 15 110 x 15 142 x 12 148 x 12	- - - - -	- - - - -	- - - - -	- - - - -	- ✓ -	- ✓ -
Spline type	MICRO SPLINE HG spline L2 (ROAD 12-speed dedicated) HG spline L (ROAD 12/11-speed) HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210) HG spline S (7-speed)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
Engagement type	-	Direct engagement	-	Direct engagement	-	-	-
Quick engagement	-	✓ (max 3.5 deg.)	-	✓ (max 3.5 deg.)	-	-	-
Bearing	Stainless ball Cup Cone Cartridge	- - - SUS radial	- - - SUS radial	- - - SUS radial	- - - SUS radial	SUJ2 radial	SUJ2 radial
Seal	Hub FREEHUB body	Labyrinth+Contact Labyrinth+Contact	Labyrinth+Contact Labyrinth+Contact	Labyrinth+Contact Labyrinth+Contact	Labyrinth+Contact Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
Internal grease sleeve	-	-	-	-	-	-	-
Rim	Material Finish	Carbon Painted	Carbon Painted	Carbon Painted	Carbon Painted	Aluminum Painted	Aluminum Painted
Spoke	Material Finish	Titanium Black	Titanium Black	Stainless steel Black	Stainless steel Black	Stainless steel Black	Stainless steel Black
Nipple	Material Finish	Aluminum Black	Aluminum Black	Aluminum Black	Aluminum Black	Aluminum Black	Aluminum Black
FREEHUB body	Material Finish	- -	Aluminum Anodized	- -	Aluminum Anodized	- -	- -
Hub shell	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Axle	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum 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 AS DIN	CATEYE RR-550-WUU SW CATEYE RR-550-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					
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-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
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					
Rear speeds		12	12	-	-	12	12
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 2.3 - 2.60	27.5 x 2.3 - 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		X (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	✓	✓	-	-	✓	✓
	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
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					
	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
Axe	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	-	-	-	-	-	-
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)		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					
Rear speeds		-	-	12	12	-	-
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	-	-	✓	✓	-	-
	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
Seal	Cartridge	-	-	-	-	-	-
	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
FREEHUB body		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					
	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
Axe	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					
	AS	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-F15-275	WH-MT601-TL-R12-275
Model name	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-F15-275	WH-MT601-TL-R12-275
Specification	R12-B-29	R12-B-275	F15-29	R12-29	F15-275	R12-275	R12-275
Color	1 Hub shell 1 Quick release 2 Hub shell 2 Quick release	Black - - -	Black - - -	Black - - -	Black - - -	Black - - -	Black - - -
Front/Rear	Rear	Rear	Front	Rear	Front	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	CENTER LOCK disc brake
Rear speeds	12	12	-	12	-	-	12
O.L.D. (mm)	148	148	100	142	100	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)	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
	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	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	15 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-	-
	168	-	-	-	-	-	-
	173	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	✓	-	✓	-
	110 x 15	-	-	-	-	-	-
	142 x 12	-	-	-	✓	-	✓
	148 x 12	✓	✓	-	-	-	-
Spline type	MICRO SPLINE	✓	✓	-	✓	-	✓
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9-8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type	Pawl ratchet	Pawl ratchet	-	Pawl ratchet	-	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					
	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					
	AS	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					
Rear speeds		-	12	-	12	12	12
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	-	✓	-	✓	✓	✓
	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					
	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
Axe	Material	Aluminum	Steel	Aluminum	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
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					
	AS	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	Specification	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
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear	Front	Rear	Front	Rear	Front	Rear	
Brake type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	
Rear speeds	-	11/10/9/8/7	-	11/10/9/8/7	-	-	11/10/9/8/7
O.L.D. (mm)	100	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)	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
	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	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	
	133	✓	-	-	-	-	-
Quick release skewer length (mm)	168	-	✓	-	-	-	-
	173	-	✓	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	✓	-	-	-
	110 x 15	-	-	-	-	✓	-
	142 x 12	-	-	-	✓	-	-
	148 x 12	-	-	-	-	-	✓
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	✓	-	✓	-	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type	-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet	
Quick engagement	-	-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	-	-	-	Contact	-	Contact
Internal grease sleeve	✓	✓	✓	✓	✓	✓	✓
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass	Brass
	Finish	Black	Black	Black	Black	Black	Black
FREEHUB body	Material	-	-	-	Steel	-	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Axle	Material	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	Specification	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
Color	1 Hub shell 1 Quick release 2 Hub shell 2 Quick release	Black Black -	Black Black -	Black - -	Black - -	Black - -	Black - -
Front/Rear	Front Brake type Rear speeds O.L.D. (mm) Wheel size	Front CENTER LOCK disc brake	Rear CENTER LOCK disc brake	Front CENTER LOCK disc brake	Rear CENTER LOCK disc brake	Front CENTER LOCK disc brake	Rear CENTER LOCK disc brake
Tire	Type Recommended size	Clincher 29 x 2.00 - 2.35					
Rim	Height (mm) Internal width (mm) External width (mm) Rim joint Brazed reinforcement OFFSET RIM Requires rim tape	21 24 29.6 Sleeve	21 24 29.6 Sleeve	21 24 29.6 Sleeve	21 24 29.6 Sleeve	21 24 29.6 Sleeve	21 24 29.6 Sleeve
Spokes	Number Straight pull J-bend Diameter (mm)	24 -	24 -	24 -	24 -	24 -	24 -
Axle fixing method	Quick release	Quick release	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	15 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133 168 173 178 100 x 15 110 x 15 142 x 12 148 x 12	✓ - ✓ - - - - -	- ✓ - - ✓ - ✓ -	- - - - - - - -	- - - - - - - -	- - - - - ✓ - -	- - - - - - - -
Spline type	MICRO SPLINE HG spline L2 (ROAD 12-speed dedicated) HG spline L (ROAD 12/11-speed) HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210) HG spline S (7-speed)	- - - - -	- - - ✓ -	- - - - -	- - - ✓ -	- - - - -	- - - - -
Engagement type	Quick engagement	-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet
Bearing	Stainless ball Cup Cone Cartridge	- - CBN -	- - CBN -	- - CBN -	- - CBN -	- - CBN -	- - CBN -
Seal	Hub FREEHUB body	Labyrinth+Contact -	Labyrinth+Contact -	Labyrinth+Contact -	Labyrinth+Contact Contact	Labyrinth+Contact -	Labyrinth+Contact Contact
Internal grease sleeve	Material Finish	✓ Stainless steel					
Rim	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Spoke	Material Finish	Stainless steel					
Nipple	Material Finish	Black	Black	Black	Black	Black	Black
FREEHUB body	Material Finish	Brass	Brass	Brass	Brass	Brass	Brass
Hub shell	Material Finish	Black	Black	Black	Black	Black	Black
Axle	Material Finish	Steel	Steel	Steel	Steel	Steel	Steel
Quick release lever	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted
Quick release housing	Material Finish	Black	Black	Black	Black	Black	Black
Quick release nut	Material Finish	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
Disc brake rotor lock ring	Material Finish	-	-	Steel	-	Steel	-
Reflector	JIS/CPSC AS DIN	CATEYE RR-550-WUW SW CATEYE RR-550-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	-	-	-	-	-	-	-

Wheel (Disc Brake)

Series		SHIMANO
Model no.		WH-MT15-A-F15-275
Model name		WH-MT15-A
Color	1 Hub shell	Black
	1 Quick release	Black
	2 Hub shell	White
	2 Quick release	Black
Front/Rear		Front
Brake type		CENTER LOCK disc brake
Rear speeds		-
O.L.D. (mm)		100
Wheel size		584 x 19C (27.5 inch)
Tire	Type	Clincher
	Recommended size	27.5 x 1.90 - 2.25
Rim	Height (mm)	21
	Internal width (mm)	19
	External width (mm)	24.6
	Rim joint	Sleeve
	Brazed reinforcement	-
	OFFSET RIM	-
Requires rim tape		✓ (20-584)
Spokes	Number	28
	Straight pull	-
	J-bend	✓
	Diameter (mm)	2.0
Axle fixing method		15 mm E-THRU
Quick release skewer length (mm)	133	-
	168	-
	173	-
	178	-
Thru axle (length x inner diameter ; mm)	100 x 15	✓
	110 x 15	-
	142 x 12	-
	148 x 12	-
Spline type	MICRO SPLINE	-
	HG spline L2 (ROAD 12-speed dedicated)	-
	HG spline L (ROAD 12/11-speed)	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-
	HG spline S (7-speed)	-
	Engagement type	-
Quick engagement		-
Bearing	Stainless ball	-
	Cup	-
	Cone	CBN
	Cartridge	-
Seal	Hub	Labyrinth+Contact
	FREEHUB body	-
Internal grease sleeve		✓
Rim	Material	Aluminum
	Finish	Anodized (black rim)
Spoke	Material	Stainless steel
	Finish	Black
Nipple	Material	Brass
	Finish	Silver
FREEHUB body	Material	-
	Finish	-
Hub shell	Material	Aluminum
	Finish	Painted
Axe	Material	Aluminum
	Finish	Anodized
Quick release lever	Material	-
	Finish	-
Quick release housing	Material	-
	Finish	-
Quick release nut	Material	-
	Finish	-
Disc brake rotor lock ring	Material	Steel
	Finish	Painted
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW
	DIN	CATEYE RR317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		995 (Black) 1000 (White)
Note		

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CI-DECK

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CI-DECK

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

Cycle Computer (CI-DECK)

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

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TREKKING

Shifter

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

Brake Lever (Hydraulic Disc Brake)

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

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Brake Lever

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

Rear Derailleur

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

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Front Derailleur

Series		DEORE XT	DEORE XT	DEORE XT	DEORE	DEORE	DEORE
Model no.		FD-T8000-H-3	FD-T8000-L-3	FD-T8000-L-6	FD-T6000-H3	FD-T6000-L3	FD-T6000-L6
Color	1	Series color	Series color	Series color	Series black	Series black	Series black
	2	-	-	-	-	Series silver	Series silver
Front speeds		3	3	3	3	3	3
Rear speeds		10	10	10	10	10	10
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Action	TOP SWING	-	✓	✓	-	✓	✓
	Down swing	✓	-	-	✓	-	-
	SIDE SWING	-	-	-	-	-	-
Mount	Clamp band (mm)	28.6	✓ * (w/ S size adapter)	✓ * (w/ S size adapter)	✓ * (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)
		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)		50	50	50	50	50	50
Chainstay angle (deg.)		63-66	63-66	66-69	63-66	63-66	66-69
Top gear teeth		48T	48T	48T	44T, 48T	44T, 48T	44T, 48T
Total capacity		22T	22T	22T	22T	22T	22T
Applicable top-mid tooth difference		12T	12T	12T	12T	12T	12T
Multi access cable fixing screw		-	-	-	-	✓	✓
Angled stroke adjust screw		-	-	-	-	-	-
Angled clamp band design		✓	✓	✓	-	-	-
Link bushings		8	2	2	8	2	2
Front clamp band	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Bottom bracket plate	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer link	Material	Aluminum	Steel	Steel	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome plated	Chrome plated	Chrome plated	Plated	Plated	Plated
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stroke adjusting screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Average weight (g) (band type: L size, direct type w/ screw)		169	155	155	-	-	-
Note		* S-size adapter is available only OTC package	* S-size adapter is available only OTC package	* S-size adapter is available only OTC package			

Front Derailleur

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

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Brake (V-BRAKE)

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

Crankset

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

SL

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RD

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BR

FC

HB

FH

Crankset

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

Front Hub (Rim/Disc Brake)

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

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FREEHUB (Rim/Disc Brake)

Series		DEORE	SHIMANO
Model no.		FH-T610	FH-T3000
Color	1 Hub shell	Black	Black
	1 Quick release	Black	Black
	2 Hub shell	-	Silver
	2 Quick release	-	Black
Brake type		Rim brake	Rim brake
Rear speeds		11/10/9/8/7	11/10/9/8/7
O.L.D. (mm)		135	135
Spoke hole	28H	-	-
	32H	✓	✓
	36H	✓	✓
External serration disc brake rotor lock ring	With	-	-
	Without	-	-
Internal serration disc brake rotor lock ring	With	-	-
	Without	-	-
CENTER LOCK mount cover option		-	-
Axe fixing method		Quick release	Quick release
Quick release skewer length (mm)	166	-	✓
	168	✓	-
	170	-	✓
	173	✓	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-
	135 x 12	-	-
	142 x 12	-	-
	148 x 12	-	-
	150 x 12	-	-
Flange distance (mm)		59.2	59.2
Offset (mm)		7.8	7.5
P.C.D. left / right (mm)		44/45	45/45
Flange diameter left / right (mm)		53.8	53.8
Spline type	MICRO SPLINE	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-
	HG spline L (ROAD 12/11-speed)	-	-
	HG spline M (10/9/8-speed MTB 11-speed 7-speed CS-HG400/HG210)	✓	✓
	HG spline S (7-speed)	-	-
Seal	Hub	Labyrinth+Contact	Contact
	FREEHUB body	Contact	-
Internal grease sleeve		✓	-
Bearing	Stainless ball	-	-
	Cup	-	-
	Cone	CBN	-
FREEHUB body	Material	Steel	Steel
	Finish	-	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Axe	Material	Steel	Steel
	Finish	-	-
Quick release lever	Material	Aluminum	Steel
	Finish	Painted	Plated
Quick release housing	Material	Aluminum	Steel
	Finish	Painted	Plated
Quick release nut	Material	Steel+Resin	Steel+Resin
	Finish	-	-
Disc brake rotor lock ring	Material	-	-
	Finish	-	-
Average weight (g) (w/o axe, quick release nor lock ring)		-	-
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				
	2	-	-	-	-	-
Shifter type		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
	2	-	-	-	-	-
	Recommended brake caliper	BR-RX820	BR-RX820	BR-RX810, BR-RX820	BR-RX810, BR-RX820	BR-RX410
	Oil	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	✓	✓	✓	✓	-
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Anodized
Electric button	Material	CFRP	CFRP	CFRP	CFRP	GFRP
	Finish	-	-	-	-	-
Di2 connectivity wired	Di2 shifting	-	-	✓	✓	-
	Di2 connectivity wireless	✓	✓	-	-	✓
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

GRAVEL

Series		GRX	GRX	GRX	GRX	GRX
Model no.		RD-RX825	RD-RX827-SGS	RD-RX815	RD-RX817	RD-RX717-SGS
Color	1 2	Series color	Series color	Series color	Series color	Series color
RD construction	Rear speeds	12	12	11	11	12
	SHIMANO SHADOW RD	-	-	-	-	-
	SHIMANO SHADOW RD	✓	-	✓	✓	-
	Double servo SHADOW ES	-	✓	-	-	✓
Applicable derailleuer hanger	SHIMANO MTB type	Direct attachment (conventional)	✓	-	-	✓
	SHIMANO ROAD type	Direct mount	-	-	-	-
	SHIMANO MTB type	Direct attachment (conventional)	-	✓	✓	-
	UDH standard	Direct mount	✓	-	✓	-
Max. front difference		17T	0T	17T	-	0T
Total capacity		40T	41T	38T	31T	41T
Low sprocket	Max.	36T	51T	34T	42T	51T
Top sprocket	Min.	34T	51T	30T	40T	51T
Fluoric coated link bushings	Max.	11T	10T	11T	11T	10T
Fluoric coated link bushings	Min.	11T	10T	11T	11T	10T
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	11/13T	13T	13T	11T	13T
	Screws material	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	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Hollow axle Stainless steel
	Finish	-	Coloring	-	-	Coloring
B-axle 2	Material	Aluminum	-	Aluminum	Aluminum	-
	Finish	Anodized	-	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	Plated
Plate body	Material	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Painted	Painted
Inner link	Material	GFRP	Aluminum	GFRP	Steel	Aluminum
	Finish	-	Painted	-	GFRP	Painted
Outer plate	Material	Aluminum	Aluminum	Aluminum	Painted	Painted
	Finish	Painted	Painted	Painted	Aluminum	Steel
Inner plate	Material	Aluminum	Aluminum	Aluminum	Painted	Painted
	Finish	Painted	Painted	Painted	Steel	Steel
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 h@LE	Cycling power	-	-	-	-
	ANT+	Bicycle power	-	-	-	-
	Adjust mode information	-	✓	-	-	✓
	D2 battery level	✓	✓	-	-	✓
	Gear position	✓	✓	-	-	✓
	SHIMANO E-BIKE SYSTEM S data items (*3)	-	✓	-	-	✓
	Compatible with E-TUBE RIDE	-	✓	-	-	✓
	Compatible with E-TUBE PROJECT	-	✓	-	-	✓
	Adjust mode information	✓	✓	-	-	✓
	D2 battery level	✓	✓	-	-	✓
	Gear position	✓	✓	-	-	✓
	SHIMANO E-BIKE SYSTEM S data items (*3)	-	✓	-	-	✓
Firmware update by E-TUBE PROJECT	-	✓	✓	✓	✓	✓
SD50 port (pcs)	0	0	1	1	0	0
SD300 port (pcs)	1	0	0	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	287	318	494	
Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile. *3 Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.	w/o Bracket spec. available					

Front Derailleur

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

Shift/Brake Lever (Hydraulic Disc Brake)

GRAVEL

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
		Rear derailleuer side	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
	Hose joint		Straight	Straight	Straight	Straight	Straight
	Brake hose connector (kit)	1	Black	Black	Black	Black	Black
		2	-	-	-	-	-
	Recommended brake caliper		BR-RX820	BR-RX820	BR-RX820	BR-RX810, BR-RX820	BR-RX820-LE
	Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust		✓	✓	✓	✓	✓
	Funnel bleeding		✓	✓	✓	✓	✓
	Free stroke adjust		✓	✓	✓	✓	✓
	SERVO WAVE		✓	✓	✓	✓	✓
Clamp band	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish		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
	Finish		-	-	-	-	-
Clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel
Average weight (g)		289	283	263	286	286	284
Note							

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Shift/Brake Lever (Hydraulic Disc Brake)

Series		GRX	GRX	GRX	GRX	GRX	GRX	
Model no.		ST-RX810-L-LE	ST-RX810-LA	ST-RX610-R	ST-RX610-L	ST-RX600-R	ST-RX600-L	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Standard	Standard	Standard	Standard	Standard	Standard	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	Single lever for adjustable seat post	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shift lever	Front speeds	2	1	-	2	-	2	
	Rear speeds	-	-	12	-	11	-	
	Max. multiple shifts (main lever/rear)	-	-	2	-	2	-	
	Multi-bearing construction	-	-	-	-	-	-	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
		Rear derailleuer 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-J-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR	
	Hose joint		Straight	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	
		2	-	-	-	-	-	
	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)

GRAVEL

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
		Rear derailleur side	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
	Hose joint		Straight
	Brake hose color (kit)	1	Black
		2	-
	Recommended brake caliper		BR-RX400, BR-RX410
	Oil		SHIMANO Mineral
	Reach adjust		✓
	Funnel bleeding		✓
	Free stroke adjust		-
	SERVO WAVE		-
	Material		Aluminum
	Finish		Painted
Clamp band	Diameter (mm)		23.8-24.2
Bracket	Material		Engineering composite
	Finish		-
Clamp band	Material		Steel
Average weight (g)		307	306
Note			

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Shifter

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

Brake Lever (Hydraulic Disc Brake)

GRAVEL

Series		GRX	GRX	GRX	GRX	GRX	GRX
Model no.		BL-R5717-L	BL-RX825-L	BL-RX820-L	BL-RX810-L	BL-RX810-L-LE	BL-RX610-L
Brake type		Hydraulic disc brake					
Lever size (finger)		-	-	-	-	-	-
Color	1	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					
Funnel bleeding		✓	✓	✓	✓	✓	✓
Clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel
Bracket	Material	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							

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Brake Lever (Hydraulic Disc Brake)

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)

GRAVEL

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

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Brake Lever (Hydraulic Disc Brake, Flat Handlebar type)

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

Rear Derailleur

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

Rear Derailleur

Series		GRX	GRX
Model no.		RD-RX812-LE	RD-RX400
Color	1	Series color	Series color
	2	-	-
Rear speeds		11	10
Compatible chain		LINKGLIDE, HG 11-speed	HG-X 10-speed
RD construction	SHIMANO SHADOW RD	-	-
	SHIMANO SHADOW RD+	✓	✓
	Double servo	-	-
Applicable derailleuer hanger	SHIMAN O MTB type	Direct attachment (conventional)	-
		Direct mount	-
	SHIMAN O ROAD type	Direct attachment (conventional)	✓
		Direct mount	✓
	UDH standard		-
	Riveted adapter	ROAD type	-
		BMX-track type	-
	Cable adjuster		✓
	Max. front difference		-
	Total capacity		31T
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

GRAVEL

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					

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Brake (Hydraulic Disc Brake)

Series		GRX	GRX	GRX	GRX	GRX	GRX
Model no.		BR-RX820	BR-RX820-LE	BR-RX810-F	BR-RX810-R	BR-RX410-F	BR-RX410-R
Color	1	Series color	Series color	Series color	Series color	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-J-SSR SM-BH90-JK-SSR	SM-BH90-J-SSR SM-BH90-JK-SSR
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
J-Kit spec (for OEM)		✓	-	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	✓	✓	✓	✓	✓
Pad	Standard 1	K05S-RX Resin (w/o fin)	L05A-RF Resin (w/ fin)	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)
	Standard 2	L05A-RF Resin (w/ fin)	K05S-RX Resin (w/o fin)	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)
	Option 1	L04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)	K04S-MX Metal (w/o fin)	K04S-MX Metal (w/o fin)	L04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)
	Option 2	-	-	L04C-MF Metal (w/ fin)	L04C-MF Metal (w/ fin)	-	-
Fixing screw spec for rear mount	10 mm mount	✓	-	-	✓	-	✓
	15 mm mount	✓	-	-	✓	-	✓
	20 mm mount	✓	-	-	✓	-	✓
	25 mm mount	✓	✓	-	✓	-	✓
	30 mm mount	✓	-	-	✓	-	✓
	35 mm mount	✓	-	-	✓	-	✓
Recommended brake lever		ST-RX820 ST-RX820-LA BL-RX820-L ST-RX825	ST-RX810-LE BL-RX810-L-LE BL-T8100-LE	ST-RX810 BL-RX810 ST-RX815	ST-RX810 BL-RX810 ST-RX815	ST-RX610 ST-RX715 BL-RS717	ST-RX610 ST-RX715 BL-RS717
Recommended disc brake rotor		RT-CL800	SM-RT800, RT-MT800	SM-RT800, RT-MT800	SM-RT800, RT-MT800	RT-CL700 SM-RT64	RT-CL700 SM-RT64
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓	✓
Mount type		Flat mount	Flat mount	Flat mount	Flat mount	Flat mount	Flat mount
Piston		2	2	2	2	2	2
Piston material		Resin	Resin	Ceramic	Ceramic	Resin	Resin
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	4 mm	4 mm	4 mm	4 mm	4 mm	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+Snap ring	Screw fix pin
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		139 (Front) 122 (Rear)	139 (Front) 122 (Rear)	141	124	-	-
Note			Front spec with adaptor	Front spec with adaptor	Front spec with adaptor	Front spec with adaptor	Front spec with adaptor

Brake (Hydraulic Disc Brake)

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

Crankset

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

Crankset

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

Wheel (Disc Brake)

Series		GRX	GRX	SHIMANO	SHIMANO	GRX	GRX
Model no.		WH-RX870-TL-F12-700C	WH-RX870-TL-R12-700C	WH-RX880-TL-F12-700C	WH-RX880-TL-R12-700C	WH-RX570-TL-F12-700C	WH-RX570-TL-F12-650B
Model name		WH-RX870-TL-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
Specification		Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front/Rear
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Rear	Front	Rear	Front	Front
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		-	12/11	-	12	-	-
O.L.D. (mm)		100	142	100	142	100	100
Wheel size		622 x 25C (700C)	622 x 25C (700C)	622 x 25C (700C)	622 x 25C (700C)	622 x 21C (700C)	584 x 21C (650B)
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	32-622 - 50-622	32-622 - 50-622	32-622 - 50-622	32-622 - 50-622	32-622 - 42-622	38-584 - 53-584
Rim	Height (mm)	32	32	32	32	22	22
	Internal width (mm)	25	25	25	25	21.6	21.6
	External width (mm)	30.7	30.7	30.7	30.7	26	26
	Rim joint	-	-	-	-	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	✓	✓
Requires rim tape		✓	✓	✓	✓	✓	✓
Spokes	Number	24	24	24	24	24	24
	Straight pull	✓	✓	-	-	✓	✓
	Bladed	✓	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	-	-
Diameter (mm)		2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2	2
Axe fixing method		E-THRU	E-THRU	E-THRU	E-THRU	E-THRU	E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-	-
	163	-	-	-	-	-	-
	168	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 12	✓	-	✓	-	✓	✓
	142 x 12	-	✓	-	✓	-	-
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	✓	-	-
	HG spline L (ROAD 12/11-speed)	-	✓	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	Pawl ratchet	-	Direct engagement	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish	Polish
	Cone	CBN+Polish	CBN+Polish	CBN+Polish	CBN+Polish	CBN	CBN
Disc mount	Cartridge	-	-	-	-	-	-
	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
Axe	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Compatible spoke protector		-	CP-WH30(11-34T) CP-WH26(11-40T/ 42T)	-	CP-WRX8A(34T/36T) CP-WRX8B(45T/51T)	-	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		639	822	635	762 (HG-spline L2) 759 (MICRO SPLINE)	769	737
Note		-	-	-	-	-	-

Wheel (Disc Brake)

GRAVEL

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-R12-700C	WH-RX570-TL-R12-650B	WH-RX180-TL-F12-700C	WH-RX180-TL-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
Rear speeds		11/10	11/10	-	12
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	✓	✓	✓	✓
Spokes	Requires rim tape	✓	✓	✓	✓
	Number	24	24	24	24
	Straight pull	✓	✓	-	-
	Bladed	✓	✓	-	-
Spokes	Butted	-	-	✓	✓
	Diameter (mm)	2	2	2.3-2.0-2.3	2.3-2.0-2.3
Axe 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	-	-	-	✓
	HG spline L (ROAD 12-speed dedicated)	-	-	-	-
	HG spline L (ROAD 12/11-speed)	✓	✓	-	✓
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-
	HG spline S (7-speed)	-	-	-	-
Engagement type		Pawl ratchet	Pawl ratchet	-	Pawl ratchet
Bearing	Stainless ball	-	-	-	-
	Cup	Polish	Polish	-	-
	Cone	CBN	CBN	-	-
Disc mount	Cartridge	-	-	✓	✓
	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
Axe	Material	Aluminum	Aluminum	-	Steel
	Finish	-	-	-	-
Quick release lever	Material	-	-	-	-
	Finish	-	-	-	-
Quick release housing	Material	-	-	-	-
	Finish	-	-	-	-
Quick release nut	Material	-	-	-	-
	Finish	-	-	-	-
Compatible spoke protector		CP-FH08 (23-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 10/11-speed)	CP-FH08 (23-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 10/11-speed)	-	CP-WR18A (36T for 12-speed) CP-WR18B (45T, 51T for 12-speed) CP-WH30 (34T for 11-speed) CP-WH26 (40T, 42T for 11-speed)
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	909	1198 (HG spline L) 1205 (MICRO SPLINE)
Note					

ROAD

	<i>Page</i>
<i><Di2 spec.></i>	
Shift/Brake Lever (Hydraulic Disc Brake)	120 ST
Shift/Brake Lever	122 ST
Shift Switch	124 SW
Rear Derailleur	125 RD
Front Derailleur	127 FD
Front Derailleur (Adapter)	127 SMAD
<i><Mechanical spec.></i>	
Shift/Brake Lever (Hydraulic Disc Brake)	128 ST
Shift/Brake Lever	132 ST
Shifter	136 SL
Brake Lever (Hydraulic Disc Brake, Drop Handlebar Type)	139 BL
Brake Lever (Hydraulic Disc Brake)	140 BL
Brake Lever	141 BL
Brake (Hydraulic Disc Brake)	143 BR
Brake (Mechanical Disc Brake)	146 BR
Brake (Caliper Brake)	147 BR
Brake (V-BRAKE)	152 BR
Brake (Cantilever Brake)	152 BR
Brake Cable	152 BC
Rear Derailleur	153 RD
Front Derailleur	157 FD
Crankset	162 FC
Crankset (Power Meter)	167 FC
Bottom Bracket (HOLLOWTECH II)	168 BB
Bottom Bracket	169 BB
Cassette	170 CS
Front Hub (Rim/Disc Brake)	173 HB
FREEHUB (Rim/Disc Brake)	175 FH
Wheel (Disc Brake)	177 WH
Wheel (Rim Brake)	182 WH
Head Parts	187 HP

Shift/Brake Lever (Hydraulic Disc Brake)

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	SHIMANO 105	SHIMANO 105
Model no.		ST-R9270-R	ST-R9270-L	ST-R8170-R	ST-R8170-L	ST-R7170-R	ST-R7170-L
Color	1	Series color					
	2	-	-	-	-	-	-
Shifter type		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-R9270	BR-R9270	BR-R8170	BR-R8170	BR-R7170
	Oil		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		✓	✓	✓	✓	-
Bracket	Material		Carbon	Carbon	Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted	Anodized	Anodized
Electric button	Material		CFRP	CFRP	CFRP	GFRP	GFRP
	Finish		-	-	-	-	-
Di2 connectivity wired	Di2 shifting		✓	✓	✓	-	-
	Di2 connectivity wireless		✓	✓	✓	✓	✓
Master unit		-	-	-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
SD50 port (pcs)		0	0	0	0	0	0
SD300 port (pcs)		1	1	1	1	1	1
SD50 connector (pcs)		0	0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0	0
Port for SD50 remote sprinter shifter (pcs)		0	0	0	0	0	0
Port for SD300 satellite shifter (pcs)		1	1	1	1	0	0
Battery		CR1632	CR1632	CR1632	CR1632	CR1632 x 2	CR1632 x 2
Average weight (g)		350 (/pair)	350 (/pair)	391 (/pair)	391 (/pair)	423 (/pair)	423 (/pair)
Note							

Shift/Brake Lever (Hydraulic Disc Brake)

ROAD

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

Shift/Brake Lever

Series	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	DURA-ACE	DURA-ACE
Model no.	ST-R9250-R	ST-R9250-L	ST-R8150-R	ST-R8150-L	ST-R9150-R	ST-R9150-L
Shifter type	DUAL CONTROL LEVER					
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
	SLR-EV	✓	✓	✓	✓	✓
Bracket	Material	CFRP	CFRP	GFRP	GFRP	CFRP
	Finish	-	-	-	-	-
Electric button	Material	CFRP	CFRP	GFRP	GFRP	CFRP
	Finish	Painted	Painted	-	-	-
Brake lever	Material	CFRP	CFRP	Aluminum	Aluminum	CFRP
	Finish	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	ULTEGRA	ULTEGRA
Model no.	ST-R9160-R	ST-R9160-L	ST-R8050-R	ST-R8050-L	ST-R8060-R	ST-R8060-L
Shifter type	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER
Remote switch	-	-	✓	✓	-	-
Brake lever	Reach adjust	✓	✓	✓	✓	✓
	Clamp band (mm)	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	23.8-24.2	23.8-24.2	INNER DIA. 19.0 - 22.5
	SLR-EV	✓	✓	✓	✓	✓
Bracket	Material	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-
Electric button	Material	CFRP	CFRP	GFRP	GFRP	CFRP
	Finish	-	-	-	-	-
Brake lever	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	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	2	2	1	1
SD300 port (pcs)	0	0	0	0	0	0
SD50 connector (pcs)	0	0	0	0	0	0
SD300 connector (pcs)	0	0	0	0	0	0
Port for SD50 remote sprinter shifter (pcs)	0	0	1	1	0	0
Port for SD300 satellite shifter (pcs)	0	0	0	0	0	0
Battery	-	-	-	-	-	-
Average weight (g)	127 (/pair)	127 (/pair)	295 (/pair)	295 (/pair)	138 (/pair)	138 (/pair)
Note	-	-	-	-	-	-

Shift/Brake Lever

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

Shift Switch

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

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

Rear Derailleur

Series		DURA-ACE	ULTEGRA	SHIMANO 105	DURA-ACE	ULTEGRA	ULTEGRA
Model no.		RD-R9250	RD-R8150	RD-R7150	RD-R9150	RD-R8050-SS	RD-R8050-GS
Color	1 2	Series color	Series color	Series color	Series color	Series color	Series color
RD construction	Rear speeds	12	12	12	11	11	11
	SHIMANO SHADOW RD	✓	✓	✓	✓	✓	✓
	SHIMANO SHADOW RD	-	-	-	-	-	-
	Double servo SHADOW ES	-	-	-	-	-	-
Applicable derailleuer hanger	SHIMANO MTB type	Direct attachment (conventional)	-	-	-	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	✓	✓	✓	✓	✓
	SHIMANO ROAD type	Direct mount	-	-	-	-	-
	UDH standard	✓	✓	✓	-	-	-
	Max. front difference	16T	16T	16T	16T	16T	16T
Low sprocket	Total capacity	37T	39T	41T	33T	33T	37T
	Max.	34T	34T	36T	30T	30T	34T
	Min.	30T	30T	34T	25T	25T	28T
Top sprocket	Max.	11T	11T	11T	14T	14T	12T
	Min.	11T	11T	11T	11T	11T	11T
	Fluoric coated link bushings	4	4	4	4	4	4
Pulley	Guide pulley bearing	✓	✓	-	✓	✓	✓
	Tension pulley bearing	✓	✓	-	✓	✓	✓
	Teeth	11T	11T	11T	11T	11T	11T
	Screws material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Bracket	Material	Aluminum	Aluminum	Steel	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Plated	Anodized	Anodized	Anodized
B-axle	Material	Aluminum	Stainless steel	Stainless steel	Aluminum	Stainless steel	Stainless steel
	Finish	Anodized	Painted	-	Anodized	-	-
B-axle 2	Material	Aluminum	Aluminum	Stainless steel	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	-	Anodized	Anodized	Anodized
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material	Aluminum	Steel	Steel	Aluminum	Steel	Steel
	Finish	Plated	Passivation	Plated	Plated	Passivation	Passivation
Plate body	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	Painted	Painted	-	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Anodized	Painted	Painted
Inner link	Material	GFRP	GFRP	Steel	Steel	GFRP	GFRP
	Finish	-	-	Painted	Painted	Painted	Painted
Outer plate	Material	Carbon	Aluminum	Aluminum	Carbon	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Carbon	Aluminum	Aluminum	Carbon	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Stroke adjusting screw	Material	Aluminum	Steel	Steel	Aluminum	Steel	Steel
	Finish	Anodized	Plated	Plated	Anodized	Plated	Plated
Di2 connectivity wired	Di2 shifting	✓	✓	✓	✓	✓	✓
	Di2 shifting	✓	✓	✓	-	-	-
Di2 connectivity wireless	Bluetooth h@LE	Cycling power	-	-	-	-	-
	ANT+	Bicycle power	-	-	-	-	-
	Adjust mode information	✓	✓	✓	-	-	-
	D12 battery level	✓	✓	✓	-	-	-
	Gear position	✓	✓	✓	-	-	-
	SHIMANO E-BIKE SYSTEM S data items	(*)	✓	✓	✓	-	-
	Bluetooth h@LE custom	✓	✓	✓	-	-	-
	Compatible with E-TUBE RIDE	✓	✓	✓	-	-	-
	Compatible with E-TUBE PROJECT	✓	✓	✓	-	-	-
	ANT private (*)	Adjust mode information	✓	✓	✓	-	-
Firmware update by E-TUBE PROJECT	D12 battery level	✓	✓	✓	-	-	-
	Gear position	✓	✓	✓	-	-	-
	SHIMANO E-BIKE SYSTEM S data items	(*)	✓	✓	✓	-	-
	SD50 port (pcs)	0	0	0	1	1	1
	SD300 port (pcs)	1	1	1	0	0	0
Power supply	SD50 connector (pcs)	0	0	0	0	0	0
	SD300 connector (pcs)	0	0	0	0	0	0
	LED for system status	✓	✓	✓	-	-	-
	Built-in battery	-	-	-	-	-	-
Charging port	Wired	✓	✓	✓	✓	✓	✓
	Charging cable	EW-EC300	EW-EC300	EW-EC300	-	-	-
	Average weight (g)	215	262	302	197	240	247
Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile. *3 Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.		w/o Bracket spec. available	w/o Bracket spec. available	w/o Bracket spec. available	w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available

Rear Derailleur

Series		ULTEGRA	ULTEGRA	ULTEGRA RX
Model no.		RD-6870-SS	RD-6870-GS	RD-RX805-GS
Color	1 2	Series color	Series color	Series color
RD construction	SHIMANO SHADOW RD	-	-	-
	SHIMANO SHADOW RD+	-	-	✓
	Double servo SHADOW ES	✓	✓	-
	UDH standard	-	-	-
Applicable derailleur hanger	SHIMANO MTB type	Direct attachment (conventional)	-	-
		Direct mount	-	-
	SHIMANO ROAD type	Direct attachment (conventional)	✓	✓
		Direct mount	-	✓
Max. front difference		16T	16T	16T
Total capacity		33T	37T	39T
Low sprocket	Max.	28T	32T	34T
Top sprocket	Min.	23T	28T	28T
Fluoric coated link bushings	Max.	14T	12T	11T
	Min.	11T	11T	11T
Pulley	Guide pulley bearing	✓	✓	✓
	Tension pulley bearing	✓	✓	✓
	Teeth	11T	11T	11T
	Screws material	Stainless steel	Stainless steel	Stainless steel
Bracket	Sunken type pulley screw	✓	✓	✓
	Material	Aluminum	Aluminum	Aluminum
	Finish	✓	✓	Anodized
	Hollow axle	-	-	✓
B-axle	Material	Stainless steel	Stainless steel	Stainless steel
	Finish	Passivation	Passivation	-
	Hollow axle	-	-	✓
	Material	-	-	Aluminum
B-axle 2	Finish	-	-	Anodized
	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
	CFRP	Plated CFRP	Aluminum	-
Bracket body	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
	Material	Aluminum	Aluminum	Steel
	CFRP	Plated CFRP	Aluminum	-
Plate body	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
	Material	Aluminum	Aluminum	Aluminum
	CFRP	Plated CFRP	Aluminum	-
Outer link	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
	Material	Steel	Steel	GFRP
	CFRP	Painted CFRP	Aluminum	-
Inner link	Material	Steel	Painted Steel	-
	Finish	Painted	Painted	-
	Material	Aluminum	Aluminum	Painted
	CFRP	Painted CFRP	Aluminum	-
Outer plate	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
	Material	Aluminum	Aluminum	Aluminum
	CFRP	Painted CFRP	Aluminum	-
Inner plate	Material	Aluminum	Aluminum	Painted
	Finish	Painted	Painted	Painted
	Material	Steel	Steel	Steel
	CFRP	Painted CFRP	Aluminum	-
Stroke adjusting screw	Material	Stainless steel	Stainless steel	Steel
	Finish	Black coated	Black coated	Plated
	Material	-	-	-
	CFRP	-	-	-
Di2 connectivity wired	Di2 shifting	✓	✓	✓
	Bluetooth h@LE	Cycling power	-	-
	ANT+	Bicycle power	-	-
	Bluetooth h@LE custom (*1)	Adjust mode information	-	-
Di2 connectivity wireless	D12 battery level	-	-	-
	Gear position	-	-	-
	SHIMANO E-BIKE SYSTEM S data items (*3)	-	-	-
	Compatible with E-TUBE RIDE	-	-	-
ANT private (*2)	Compatible with E-TUBE PROJECT	-	-	-
	Adjust mode information	-	-	-
	D12 battery level	-	-	-
	Gear position	-	-	-
Firmware update by E-TUBE PROJECT	SHIMANO E-BIKE SYSTEM S data items (*3)	-	-	-
	SD50 port (pcs)	✓	✓	✓
	SD300 port (pcs)	1	1	1
	SD50 connector (pcs)	0	0	0
Power supply	SD300 connector (pcs)	0	0	0
	LED for system status	-	-	-
	Built-in battery	-	-	-
	Charging port	-	-	-
Average weight (g)	Charging cable	-	-	-
	257	268	280	
Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile. *3 Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.		* w/o Bracket spec available		

Front Derailleur

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

Front Derailleur (Adapter)

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

Shift/Brake Lever (Hydraulic Disc Brake)

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		ST-R9120-R	ST-R9120-L	ST-R8020-R	ST-R8020-L	ST-R8025-R	ST-R8025-L
Color	1	Series color	Series color	Series color	Series color	Black	Black
	2	-	-	-	-	-	-
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds	-	2	-	2	-	2
	Rear speeds	11	-	11	-	11	-
	Max. multiple shifts (main lever/rear)	2	-	2	-	2	-
	Multi-bearing construction	-	-	-	-	-	-
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleuer side	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
	Hose joint		Straight	Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black	Black
		2	-	-	-	-	-
	Recommended brake caliper		BR-R9170	BR-R9170	BR-R8070	BR-R8070	BR-R8070
	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		✓	✓	✓	✓	✓
Bracket	Material		CFRP	CFRP	Engineering composite	Engineering composite	Aluminum
	Finish		Painted	Painted	Painted	Painted	Painted
Clamp band	Material		Titanium	Titanium	Steel	Steel	Steel
Average weight (g)		538 (/pair)	538 (/pair)	554 (/pair)	554 (/pair)	568 (/pair)	568 (/pair)
Note						For small hand.	For small hand.

Shift/Brake Lever (Hydraulic Disc Brake)

ROAD

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

Shift/Brake Lever (Hydraulic Disc Brake)

Series		TIAGRA	TIAGRA	TIAGRA	TIAGRA	SHIMANO	SHIMANO
Model no.		ST-4720-R	ST-4720-L	ST-4725-R	ST-4725-L	ST-RS685-R	ST-RS685-L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds	-	2	-	2	-	2
	Rear speeds	10	-	10	-	11	-
	Max. multiple shifts (main lever/rear)	2	-	2	-	2	-
	Multi-bearing construction	-	-	-	-	-	-
Shift lever cable	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
	Outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
	Rear derailleuer side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
	Polymer-coated cable	-	-	-	-	✓	✓
	OPTISLICK	✓	✓	✓	✓	-	-
	SIL-TEC	-	-	-	-	-	-
	Stainless	-	-	-	-	-	-
	Steel	-	-	-	-	-	-
Brake lever	Brake hose (kit)	SM-BH90-J-SSR, SM-BH90-JK-SSR	SM-BH90-J-SSR, SM-BH90-JK-SSR	SM-BH90-J-SSR, SM-BH90-JK-SSR	SM-BH90-J-SSR, SM-BH90-JK-SSR	SM-BH59-J-SS, SM-BH59-JK-SS	SM-BH59-J-SS, SM-BH59-JK-SS
	Hose joint	Straight	Straight	Straight	Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black	Black	Black
	2	-	-	-	-	White	White
	Recommended brake caliper	BR-4770	BR-4770	BR-4770	BR-4770	BR-RS785	BR-RS785
	Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust	✓	✓	✓	✓	✓	✓
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
	Funnel bleeding	✓	✓	✓	✓	✓	✓
	Free stroke adjust	-	-	-	-	✓	✓
	SERVO WAVE	-	-	-	-	✓	✓
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Engineering composite	Engineering composite
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel
Average weight (g)		-	-	-	-	649 (/pair)	649 (/pair)
Note				For small hand.	For small hand.		

Shift/Brake Lever (Hydraulic Disc Brake)

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

Shift/Brake Lever

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

Shift/Brake Lever

ROAD

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

Shift/Brake Lever

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

Shift/Brake Lever

ROAD

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

Shifter

Series		DURA-ACE	SHIMANO	SHIMANO	DURA-ACE	TIAGRA	TIAGRA
Model no.		SL-BSR1	SL-R5700	SL-R5700-I	SL-7900	SL-4700	SL-4703
Color	1	Series color	Black	Black	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		Bar end shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Down tube shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2	2	2	2/3	2	3
Rear speeds		11	11	11	10	10	-
Compatible rear derailleur type		ROAD 11-speed	ROAD 11-speed	ROAD 11-speed	ROAD 10-speed	RD-4700	RD-4700
Mount type	Clamp band	-	✓	-	-	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	✓	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever cable adjust		-	✓	✓	-	✓	✓
Max. multiple shifts (main lever/rear)		-	4	4	-	4	-
Release function	MULTI RELEASE	-	*✓ (right)/- (left)	*✓ (right)/- (left)	-	-	-
	INSTANT RELEASE	-	✓	✓	-	✓ (rear)	-
	2-WAY RELEASE	-	✓	✓	-	✓	✓
OPTICAL GEAR DISPLAY	With	-	-	-	-	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	✓	✓	✓	✓	-	-
Multi-bearing construction		-	R:2 L:2	R:2 L:2	-	R:2 L:2	2
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLICK	-	-	-	-	-
		SIL-TEC	✓	✓	✓	✓	-
		Stainless	✓	✓	✓	✓	✓
		Steel	-	-	-	-	-
Shift lever bracket	Material	-	Aluminum	Aluminum	-	Aluminum	Aluminum
	Finish	-	Painted	Painted	-	Painted	Painted
Clamp screw	Material	-			-		
	Finish	-			-		
Main lever body	Material	Aluminum	CFRP	CFRP	Aluminum	Aluminum	Aluminum
	Finish	Clear coated	Painted	Painted	Clear coated	Painted	Painted
Release lever body	Material	-	Steel+GFRP	Steel+GFRP	-	Steel+Resin	Steel+Resin
	Finish	-	-	-	-	-	-
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		153 (/pair)	210 (/pair)	210 (/pair)	63 (/pair)	-	-
Note			* Pull: single Push: double	* Pull: single Push: double			

Shifter

ROAD

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

Shifter

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

Brake Lever (Hydraulic Disc Brake, Drop Handlebar Type)

ROAD

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)

Series		SHIMANO
Model no.		BL-R5600
Brake type		Hydraulic disc brake
Lever size (finger)		3
Color	1	Black
	2	-
	3	-
Brake hose (kit)		SM-BH59-JK-SS
Hose joint		Straight
Brake hose color (kit)	1	Black
	2	-
J-Kit spec (for OEM)		✓
SERVO WAVE		-
Reach adjust	Toolless	-
	Tool	✓
Free stroke adjust		-
Compatible shifter mount	Clamp band	✓
	I-SPEC B	-
	I-SPEC II	✓
Clamp band	Open clamp	✓
	Diameter (mm)	22.2
Recommended brake caliper		BR-RS405
Oil		SHIMANO mineral
Funnel bleeding		✓
Clamp screw	Material	Stainless steel
	Finish	-
Bracket	Material	-
	Finish	-
Brake lever	Material	Aluminum
	Finish	Anodized
Master cylinder	Material	Aluminum
	Finish	Painted
Average weight (g)		
Note		

Brake Lever

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

Brake Lever

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

Brake (Hydraulic Disc Brake)

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

Brake (Hydraulic Disc Brake)

Series		SHIMANO 105	SHIMANO 105	SHIMANO 105	TIAGRA	TIAGRA	SHIMANO
Model no.		BR-R7170	BR-R7070-F	BR-R7070-R	BR-4770-F	BR-4770-R	BR-R5785
Color	1	Black	Silky black	Silky black	Series color	Series color	Series color (ULTEGRA)
	2	-	Spark silver	Spark silver	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-J-SSR SM-BH90-JK-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	White
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	✓	✓	-	-	✓
Pad	Standard 1	K05S-RX_Resin (w/o fin)	K05S-RX_Resin (w/o fin)	K05S-RX_Resin (w/o fin)	K05S-RX_Resin (w/o fin)	K05S-RX_Resin (w/o fin)	J05A-RF_Resin (w/ fin)
	Standard 2	L05A-RF_Resin (w/ fin)	L05A-RF_Resin (w/ fin)	L05A-RF_Resin (w/ fin)	K04S-MX_Metal (w/o fin)	K04S-MX_Metal (w/o fin)	J04C-MF_Metal (w/ fin)
	Option 1	L04C-MF_Metal (w/ fin)	K04S-MX_Metal (w/o fin)	K04S-MX_Metal (w/o fin)	L03A-RF_Resin (w/ fin)	L03A-RF_Resin (w/ fin)	G03A-RX_Resin (w/o fin)
	Option 2	-	L04C-MF_Metal (w/ fin)	L04C-MF_Metal (w/ fin)	-	-	-
Fixing screw spec for rear mount	10 mm mount	✓	-	✓	-	✓	-
	15 mm mount	✓	-	✓	-	✓	-
	20 mm mount	✓	-	✓	-	✓	-
	25 mm mount	✓	-	✓	-	✓	-
	30 mm mount	✓	-	✓	-	✓	-
	35 mm mount	✓	-	✓	-	✓	-
	15.2 mm	-	-	-	-	-	-
	18.7 mm	-	-	-	-	-	✓
Recommended brake lever		ST-R7170	ST-R7020 ST-R7025	ST-R7020 ST-R7025	ST-4720 ST-4725	ST-4720 ST-4725	ST-R8070
Recommended disc brake rotor		SM-RT70, SM-RT64	SM-RT70	SM-RT70	SM-RT64	SM-RT64	SM-RT99
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓	✓
Mount type		Flat mount	Flat mount	Flat mount	Flat mount	Flat mount	Post type
Piston		2	2	2	2	2	2
Piston material		Resin	Ceramic	Ceramic	Resin	Resin	Ceramic
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	4 mm	4 mm	4 mm	4 mm	4 mm	5 mm
	Anti loosen method	Screw fix pin	Screw fix pin+Snap ring	Screw fix pin	Screw fix pin+Snap ring	Screw fix pin	Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		123	141	124	-	-	271 (/pair)
Note							

Brake (Hydraulic Disc Brake)

Series		SHIMANO	SHIMANO
Model no.		BR-RS405-F	BR-RS405-R
Color	1	Dark gray	Dark gray
	2	-	-
	3	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS
Hose joint		Straight	Straight
Brake hose color (kit)	1	Black	Black
	2	-	-
J-Kit spec (for OEM)		✓	✓
ICE TECHNOLOGIES pad compatible caliper		✓	✓
Pad	Standard 1	K05S-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)
	Standard 2	-	-
	Option 1	L05A-RF Resin (w/ fin)	L05A-RF Resin (w/ fin)
	Option 2	-	-
Fixing screw spec for rear mount	10 mm mount	-	✓
	15 mm mount	-	✓
	20 mm mount	-	✓
	25 mm mount	-	✓
	30 mm mount	-	✓
	35 mm mount	-	✓
	15.2 mm	-	-
	18.7 mm	-	-
Recommended brake lever		ST-U6030, ST-RS405, BL-U6030, BL-RS600	ST-U6030, ST-RS405, BL-U6030, BL-RS600
Recommended disc brake rotor		SM-RT70	SM-RT70
Oil		SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓
Mount type		Flat mount	Flat mount
Piston		2	2
Piston material		Resin	Resin
Caliper	MONO-BODY	-	-
	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Caliper fixing screw	Material	Steel	Steel
	Tool size	4 mm	4 mm
	Anti loosen method	Screw fix pin+Snap ring	Screw fix pin
Pad mount		Pad axle	Pad axle
Average weight (g)		-	-
Note			

Brake (Mechanical Disc Brake)

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

Brake (Caliper Brake)

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

Brake (Caliper Brake)

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

Brake (Caliper Brake)

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

Brake (Caliper Brake)

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

Brake (Caliper Brake)

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

Brake (V-BRAKE)

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

Brake (Cantilever Brake)

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

Brake Cable

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

Rear Derailleur

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

Rear Derailleur

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

Rear Derailleur

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

Rear Derailleur

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

Front Derailleur

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

Front Derailleur

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

Front Derailleur

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

Front Derailleur

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

Front Derailleur

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

ST

ST

SW

RD

FD

SMAD

ST

SL

BL

BL

BL

BR

BR

BR

BR

BR

BR

BC

RD

FD

FC

FC

BB

CS

HB

FH

WH

WH

HP

Crankset

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

Crankset

ROAD

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

Crankset

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

Crankset

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

Crankset

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

Crankset (Power Meter)

ROAD

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

Bottom Bracket (HOLLOWTECH II)

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

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

Bottom Bracket

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

Cassette

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

Series	SHIMANO 105	SHIMANO 105	SHIMANO
Model no.	CS-R7101-12	CS-R7100-12	CS-HG710-12
Type	HG	HG	HG
Rear speeds	12	12	12
Compatible chain	HG 12-speed	HG 12-speed	HG 12-speed
Combination name (Group name)	11-34T	11-34T	11-36T
Combination * Titanium gear	1	11-12-13-14-15-17-19-21-24-27-30-34T	11-12-13-14-15-17-19-21-24-27-30-34T
	2	-	-
	3	-	-
	4	-	-
	5	-	-
	6	-	-
	7	-	-
	MICRO SPLINE	-	-
Spline type	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)	-	-
	QTY (pcs)	-	-
Carbon spider arm	Finish	-	-
	QTY (pcs)	1	1
Aluminum spider arm	Finish	Anodized	Anodized
	QTY (pcs)	-	-
Steel spider arm	Finish	-	-
	QTY (pcs)	0	0
Titanium gear	Finish	-	-
	QTY (pcs)	0	0
Aluminum gear	Finish	-	-
	QTY (pcs)	12	12
Steel gear	Finish	Nickel plated	Nickel plated
	Material	Steel	Steel
Lock ring	Finish	Nickel plated	Nickel plated
	Average weight (g)	361	361
Note			

Cassette

ROAD

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

Series	SHIMANO 105	SHIMANO	ULTEGRA	
Model no.	CS-R7000	CS-HG700-11	CS-6700	
Type	HG-EV	HG-EV	HG	
Rear speeds	11	11	10	
Compatible chain	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG 10-speed	
Combination name (Group name)	11-28T, 11-30T, 11-32T, 12-25T	11-34T	11-25T, 11-28T, 12-25T, 12-30T	
Combination * Titanium gear	1	11-12-13-14-15-17-19-21-23-25-28T	11-12-13-14-15-17-19-21-23-25-30-34T	
	2	11-12-13-14-15-17-19-21-24-27-30T	-	
	3	11-12-13-14-16-18-20-22-25-28-32T	-	
	4	12-13-14-15-16-17-18-19-21-23-25T	-	
	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)	-	-	
	QTY (pcs)	-	-	
Carbon spider arm	Finish	-	-	
	QTY (pcs)	-	-	
Aluminum spider arm	Finish	1	1	
	QTY (pcs)	Anodized	Anodized	
Steel spider arm	Finish	-	-	
	QTY (pcs)	-	-	
Titanium gear	Finish	0	0	
	QTY (pcs)	-	-	
Aluminum gear	Finish	0	0	
	QTY (pcs)	-	-	
Steel gear	Finish	11	11	
	Material	Nickel plated	Nickel plated	
Lock ring	Finish	Steel	Aluminum	
	Material	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) 248 (11-30T) 275 (12-30T)
Note				

Cassette

Series	SHIMANO	SHIMANO
Model no.	CS-HG500-10	CS-HG50-9
Type	HG	HG
Rear speeds	10	9
Compatible chain	HG-X 10-speed, HG 10-speed	HG 9-speed
Combination name (Group name)	11-25T, 12-28T, 11-32T, 11-34T	11-30T (bQ), 12-25T, 13-25T, 14-25T
Combination * Titanium gear	1	11-12-13-14-15-17-19-21-23-25T
	2	12-13-14-15-17-19-21-23-25-28T
	3	11-12-14-16-18-20-22-25-28-32T
	4	11-13-15-17-19-21-23-26-30-34T
	5	-
	6	-
	7	-
	MICRO SPLINE	-
Spline type	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/HG2 10)	✓
	HG spline S (7-speed)	-
	QTY (pcs)	-
Carbon spider arm	Finish	-
Aluminum spider arm	QTY (pcs)	-
Steel spider arm	Finish	-
Titanium gear	QTY (pcs)	0
Aluminum gear	Finish	-
Steel gear	QTY (pcs)	10
Lock ring	Material	Nickel plated
	Finish	Steel
Average weight (g)		Nickel plated
Note	-	-

Front Hub (Rim/Disc Brake)

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

Front Hub (Rim/Disc Brake)

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

FREEHUB (Rim/Disc Brake)

Series		DURA-ACE	ULTEGRA	SHIMANO 105	SHIMANO 105	SHIMANO	SHIMANO
Model no.		FH-9000	FH-6800	FH-R7000	FH-R7070	FH-RS770	FH-RS400
Color	1 Hub shell	Series color	Series color	Silky black	Silky black	Black/Silver	Black
	1 Quick release	Series color	Series color	Black	Black	-	Black
	2 Hub shell	-	-	Spark silver	-	-	Silver
	2 Quick release	-	-	Black	-	-	Black
Brake type		Rim brake	Rim brake	Rim brake	CENTER LOCK disc brake	CENTER LOCK disc brake	Rim brake
Rear speeds		11/10 *	11/10 *	11/10 *	11/10 *	11/10 *	11/10
O.L.D. (mm)		130	130	130	142	142	130
Spoke hole	24H	✓	-	-	-	-	-
	28H	✓	-	-	-	✓	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	-	-	-	-	-
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	-	-	-	✓	✓	-
CENTER LOCK mount cover option		-	-	-	✓	-	-
Axle fixing method		Quick release	Quick release	Quick release	12 mm E-THRU	12 mm E-THRU	Quick release
Quick release skewer length (mm)	161	-	-	-	-	-	-
	163	✓	✓	✓	-	-	✓
	166	-	-	-	-	-	-
	168	✓	✓	✓	-	-	✓
	170	-	-	-	-	-	-
	173	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	✓	✓	-
	148 x 12	-	-	-	-	-	-
	150 x 12	-	-	-	-	-	-
Flange distance (mm)		56.9 **	56.9	56.9	55.7	55.7	56.9
Offset (mm)		9.75 **	9.7	9.75	7.45	7.5	9.75
P.C.D. left / right (mm)		44/45	44/45	44/45	44/45	44/45	44/45
Flange diameter left / right (mm)		52.8/53.8	52.8/53.8	52.8/53.8	52.8/53.8	52.8/53.8	52.8/53.8
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	✓	✓	✓	✓	✓	✓
	HG spline M (10/9/8-speed MTB 11-speed 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		✓	✓	✓	✓	-	✓
Digital adjustment system		✓	✓	-	-	-	-
Bearing	Stainless ball	✓	-	-	-	-	-
	Cup	CBN	Polish	Polish	Polish	CBN	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
FREEHUB body	Material	Titanium	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axe	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Steel
	Finish	Anodized	Anodized	-	-	Anodized	-
Quick release lever	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
	Finish	Anodized	Anodized	Anodized	-	-	Painted
Quick release housing	Color	9000SLV	Black	Black	-	-	Black
	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
Quick release nut	Finish	Anodized	Anodized	Anodized	-	-	Painted
	Material	Aluminum	Resin	Resin	-	-	Resin
Disc brake rotor lock ring	Finish	Anodized	Black	Black	-	-	Black
	Material	-	-	-	-	-	-
Radial lacing		-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		247	330	368	361	302	-
Note		* Can be used for 10-speed with an additional spacer ** Aero spoke hole available *** Flange Distance:56.5 Dish:9.95 (only for 40H), **** Super Finishing.	* Can be used for 10-speed with an additional spacer	* Can be used for 10-speed with an additional spacer	* Can be used for 10-speed with an additional spacer. For disc brake/ CENTER LOCK mount	* Can be used for 10-speed with an additional spacer	* Can be used for 10-speed with an additional spacer

FREEHUB (Rim/Disc Brake)

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

Wheel (Disc Brake)

ROAD

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.	WH-R9270-C60-HR-TU-F	WH-R9270-C60-HR-TU-R	WH-R9270-C60-HR-TL-F	WH-R9270-C60-HR-TL-R	WH-R9270-C50-TU-F	WH-R9270-C50-TU-R
Model name	WH-R9270-C60-HR-TU	WH-R9270-C60-HR-TU	WH-R9270-C60-HR-TL	WH-R9270-C60-HR-TL	WH-R9270-C50-TU	WH-R9270-C50-TU
Specification	F	R	F	R	F	R
Color	1 Hub shell 1 Quick release 2 Hub shell 2 Quick release	Series color - - -	Series color - - -	Series color - - -	Series color - - -	Series color - - -
Front/Rear	Front	Rear	Front	Rear	Front	Rear
Brake type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds	-	12	-	142	-	12
O.L.D. (mm)	100	142	100	142	100	142
Wheel size	700C	700C	622 x 21C (700C)	622 x 21C (700C)	700C	700C
Tire	Type	Tubular	Tubular	Tubeless	Tubeless	Tubular
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"
Height (mm)	60	60	60	60	50	50
Internal width (mm)	-	-	21	21	-	-
External width (mm)	28	28	28	28	28	28
Rim	Rim joint Brazed reinforcement OFFSET RIM	- - -	- - -	- - -	- - -	- - -
Spokes	Requires rim tape Number Straight pull Bladed Butted	- 24 ✓ ✓ ✓	- 24 ✓ ✓ ✓	✓ 24 ✓ ✓ ✓	✓ 24 ✓ ✓ ✓	- 24 ✓ ✓ ✓
	Diameter (mm)	2.0-1.8-2.0 12 mm E-THRU	2.0-1.8-2.0 12 mm E-THRU	2.0-1.8-2.0 12 mm E-THRU	2.0-1.8-2.0 12 mm E-THRU	2.0-1.5-2.0 12 mm E-THRU
Quick release skewer length (mm)	133 163 168	- - -	- - -	- - -	- - -	- - -
Thru axle (length x inner diameter ; mm)	100 x 8 100 x 12 142 x 12	- ✓ -	- ✓ -	- ✓ -	- ✓ -	- ✓ -
Spline type	MICRO SPLINE HG spline L2 (ROAD 12-speed dedicated) HG spline L (ROAD 12/11-speed) HG spline M (ROAD 9/8-speed MTB 11-speed 7-speed CS HG400/HG210) HG spline S (7-speed)	- - - - -	- ✓ - - -	- - - - -	- ✓ - - -	- ✓ - - -
Engagement type	- Stainless ball Cup Cone	- ✓ CBN CBN	Direct engagement - CBN CBN	- ✓ CBN CBN	Direct engagement - ✓ CBN CBN	- ✓ CBN CBN
Bearing	- CENTER LOCK CENTER LOCK mount cover option 140 mm disc brake rotor compatible	- ✓ -	- ✓ -	- ✓ -	- ✓ -	- ✓ -
Disc mount	OPTBAL (2:1) D2 rim	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
Digital adjustment system	- Hub	Contact	Contact	Contact	Contact	Contact
Seal	FREEHUB body	- Contact	- Contact	- Contact	- Contact	- Contact
Internal grease sleeve	- Rim	- Material Finish	- Carbon Painted	- Carbon Painted	- Carbon Painted	- Carbon Painted
Spoke	Material Finish	Stainless steel Series color	Stainless steel Series color	Stainless steel Series color	Stainless steel Series color	Stainless steel Series color
Nipple	Material Finish	Aluminum Series color	Aluminum Series color	Aluminum Series color	Aluminum Series color	Aluminum Series color
FREEHUB body	Material Finish	- Aluminum	- Aluminum	- Aluminum	- Aluminum	- Aluminum
Hub shell	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Axle	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Quick release lever	Material Finish	- -	- -	- -	- -	- -
Quick release housing	Material Finish	- -	- -	- -	- -	- -
Quick release nut	Material Finish	- -	- -	- -	- -	- -
Compatible spoke protector	JIS/CPSC AS DIN	CP-WR92C CATEYE RR-550-WUW SW	CP-WR92C CATEYE RR-550-WUW SW	CP-WR92C CATEYE RR-550-WUW SW	CP-WR92A CATEYE RR-550-WUW SW	CP-WR92A CATEYE RR-550-WUW SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	667	770	751	858	610	723
Note						

Wheel (Disc Brake)

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.	WH-R9270-C50-TL-F	WH-R9270-C50-TL-R	WH-R9270-C36-TU-F	WH-R9270-C36-TU-R	WH-R9270-C36-TL-F	WH-R9270-C36-TL-R
Model name Specification	WH-R9270-C50-TL	WH-R9270-C50-TL	WH-R9270-C36-TU	WH-R9270-C36-TU	WH-R9270-C36-TL	WH-R9270-C36-TL
Color	1 Hub shell 1 Quick release 2 Hub shell 2 Quick release	Series color F R	Series color F R	Series color F R	Series color F R	Series color F R
Front/Rear	Front	Rear	Front	Rear	Front	Rear
Brake type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds	-	12	-	12	-	12
O.L.D. (mm)	100	142	100	142	100	142
Wheel size	622 x 21C (700C)	622 x 21C (700C)	700C	700C	622 x 21C (700C)	622 x 21C (700C)
Tire	Type Recommended size	Tubeless 25-622 - 32-622	Tubeless 25-622 - 32-622	Tubular 25-28" - 32-28"	Tubular 25-28" - 32-28"	Tubeless 25-622 - 32-622
Rim	Height (mm) Internal width (mm) External width (mm) Rim joint Brazed reinforcement OFFSET RIM Requires rim tape	50 21 28	50 21 28	36 28	36 28	36 28
Spokes	Number Straight pull Bladed Butted	24 ✓ ✓ ✓	24 ✓ ✓ ✓	24 ✓ ✓ ✓	24 ✓ ✓ ✓	24 ✓ ✓ ✓
Axle fixing method	133 163 168	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)	100 x 8 100 x 12 142 x 12	- ✓ -	- - ✓	- ✓ -	- - ✓	- - ✓
Thru axle (length x inner diameter ; mm)	MICRO SPLINE HG spline L2 (ROAD 12-speed dedicated) HG spline L (ROAD 12/11-speed) HG spline M (10/9/8-speed) TB 11-speed CS-HG400/HG70 HG spline S (7-speed)	- - - - -	- ✓ - - -	- - - - -	- ✓ - - -	- ✓ - - -
Spline type	Engagement type Bearing Center lock Disc mount OPTBAL (2:1) D2 rim	- Stainless ball Cup Cone	Direct engagement Contact Contact	- Stainless steel Carbon Painted	Direct engagement Contact Contact	- Stainless steel CBN CBN
Rim	Material Finish	Material Stainless steel Series color	Material Carbon Aluminum Series color	Material Painted Aluminum	Material Carbon Aluminum Series color	Material Painted Aluminum
Spoke	Material Finish	Stainless steel Series color	Stainless steel Series color	Stainless steel Series color	Stainless steel Series color	Stainless steel Series color
Nipple	Material Finish	Aluminum Series color	Aluminum Series color	Aluminum Series color	Aluminum Series color	Aluminum Series color
FREEHUB body	Material Finish	-	-	-	-	-
Hub shell	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Axle	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Quick release lever	Material Finish	-	-	-	-	-
Quick release housing	Material Finish	-	-	-	-	-
Quick release nut	Material Finish	-	-	-	-	-
Compatible spoke protector	JIS/CPSC AS DIN	CP-WR92A CATEYE RR-550-WUW SW	CP-WR92A CATEYE RR-550-WUW SW	CP-WR92A CATEYE RR-550-WUW SW	CP-WR92A CATEYE RR-550-WUW SW	CP-WR92A CATEYE RR-550-WUW SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	674	787	522	632	620	730
Note						

Wheel (Disc Brake)

Series	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.	WH-R8170-C60-TL-F	WH-R8170-C60-TL-R	WH-R8170-C50-TL-F	WH-R8170-C50-TL-R	WH-R8170-C36-TL-F	WH-R8170-C36-TL-R
Model name	WH-R8170-C60-TL	WH-R8170-C60-TL	WH-R8170-C50-TL	WH-R8170-C50-TL	WH-R8170-C36-TL	WH-R8170-C36-TL
Specification	F	R	F	R	F	R
Color	1 Hub shell 1 Quick release 2 Hub shell 2 Quick release	Series color -				
Front/Rear	Front	Rear	Front	Rear	Front	Rear
Brake type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds	-	12/11	-	12/11	-	12/11
O.L.D. (mm)	100	142	100	142	100	142
Wheel size	622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)
Tire	Type Recommended size	Tubeless 25-622 - 32-622				
Rim	Height (mm) Internal width (mm) External width (mm) Rim joint Brazed reinforcement OFFSET RIM Requires rim tape	60 21 28 -	60 21 28 -	50 21 28 -	50 21 28 -	36 21 28 -
Spokes	Number Straight pull Bladed Butted	24 ✓ ✓ ✓	24 ✓ ✓ ✓	24 ✓ ✓ ✓	24 ✓ ✓ ✓	24 ✓ ✓ ✓
Axle fixing method	133 163 168	12 mm E-THRU				
Quick release skewer length (mm)	100 x 8 100 x 12 142 x 12	- ✓ -	- -	- ✓ -	- -	- ✓ -
Thru axle (length x inner diameter ; mm)	MICRO SPLINE HG spline L2 (ROAD 12-speed dedicated) HG spline L (ROAD 11/11-speed) HG spline M (10/9/8-speed) TB CS-HG400/HG70 HG spline S (7-speed)	- - - - -	- ✓ -	- -	- ✓ -	- -
Spline type	Engagement type Stainless ball Cup Cone	- Pawl ratchet				
Bearing	CENTER LOCK CENTER LOCK mount cover option 140 mm disc brake rotor compatible OPTBAL (2:1) D2 rim	✓ -	✓ -	✓ ✓	✓ ✓	✓ ✓
Disc mount	Digital adjustment system Seal FREEHUB body Internal grease sleeve	Hub Contact	Contact	Contact	Contact	Contact
Rim	Material Finish	Carbon Painted	Carbon Painted	Carbon Painted	Carbon Painted	Carbon Painted
Spoke	Material Finish	Stainless steel Series color				
Nipple	Material Finish	Aluminum Series color				
FREEHUB body	Material Finish	- -	Steel	- -	Steel	- -
Hub shell	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Axle	Material Finish	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized	Aluminum Anodized
Quick release lever	Material Finish	-	-	-	-	-
Quick release housing	Material Finish	-	-	-	-	-
Quick release nut	Material Finish	-	-	-	-	-
Compatible spoke protector	JIS/CPSC AS DIN	CP-WR81A RR-550-WUW SW RR-550-WUA SW RR-317-WUA SW				
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	738	911	698	872	657	831
Note						

Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	DURA-ACE	SHIMANO
Model no.	WH-RS710-C32-TL-F	WH-RS710-C32-TL-R	WH-RS710-C46-TL-F	WH-RS710-C46-TL-R	WH-R9170-C60-TU-F12	WH-RS370-TL-F12
Model name	WH-RS710 C32-TL-F	WH-RS710 C32-TL-R	WH-RS710 C46-TL-F	WH-RS710 C46-TL-R	WH-R9170 F12	WH-RS370-TL F12
Specification	Black	Black	Black	Black	Series color	Black
Color	1 Hub shell 1 Quick release 2 Hub shell 2 Quick release	- - - -	- - - -	- - - -	- - - -	- - - -
Front/Rear	Front	Rear	Front	Rear	Front	Front
Brake type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds	-	12/11	-	12/11	-	-
O.L.D. (mm)	100	142	100	142	100	100
Wheel size	622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)	700C	622 x 19C (700C)
Tire	Type Recommended size Height (mm) Internal width (mm) External width (mm)	Tubeless 25-622 - 32-622 32	Tubeless 25-622 - 32-622 32	Tubeless 25-622 - 32-622 46	Tubeless 25-622 - 32-622 46	Tubeless 28-622 - 45-622 60
Rim	Rim joint Brazed reinforcement OFFSET RIM Requires rim tape	- - - ✓	- - - ✓	- - - ✓	- - - ✓	Welded - - - ✓
Spokes	Number Straight pull Bladed Butted	24 - ✓ ✓	24 - ✓ ✓	24 - ✓ ✓	24 ✓ ✓ ✓	24 ✓ - -
Axle fixing method	133 163 168	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)	100 x 8 100 x 12 142 x 12	- ✓ -	- - ✓	- ✓ -	- ✓ ✓	- - -
Thru axle (length x inner diameter ; mm)	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 CS/HG400/HG70) HG spline S (7-speed)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
Spline type	Engagement type Stainless ball Cup Cone	- - - ✓	Pawl ratchet Polish CBN CBN	- - - ✓	Pawl ratchet Polish CBN CBN	✓ Polish CBN CBN
Disc mount	CENTER LOCK CENTER LOCK mount cover option 140 mm disc brake rotor compatible OPTBAL (2:1) D2 rim	- - ✓ ✓	- - ✓ ✓	- - ✓ ✓	- - ✓ ✓	- - ✓ ✓
Digital adjustment system	Seal FREEHUB body	Hub Contact	Contact	Contact	Contact	Contact
Internal grease sleeve	Material	Carbon	Carbon	Carbon	Carbon	Aluminum
Rim	Finish	Painted	Painted	Painted	Painted	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Nipple	Material	Black	Black	Black	Black	Black
FREEHUB body	Finish	Black	Black	Black	Silver	Black
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Axle	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-
Quick release nut	Material Finish	-	-	-	-	-
Compatible spoke protector	-	CP-WR71A(11-36T) WH24(11-28,30,32,34T)	-	CP-WR71A(11-36T) WH24(11-28,30,32,34T)	-	-
Reflector	JIS/CPSC AS DIN	CATEYE RR-550-WUW SW RR-550-WUW SW	CATEYE RR-550-WUW SW RR-550-WUW SW	CATEYE RR-550-WUW SW RR-550-WUW SW	CATEYE RR-550-WUW SW RR-550-WUW SW	CATEYE RR-550-WUW SW RR-550-WUW SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	665	839	719	893	678	890
Note						-

Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-RS370-TL-R12	WH-RS171-CL-F12-700C	WH-RS171-CL-R12-700C	WH-RX010-CL-F	WH-RX010-CL-R
Model name Specification	WH-RS370-TL R12	WH-RS171-CL F12-700C	WH-RS171-CL F12-700C	WH-RX010-CL F	WH-RX010-CL R
Color	1 Hub shell Black	1 Hub shell Black	1 Hub shell Black	1 Hub shell Black	1 Hub shell Black
Front/Rear	Rear	Front	Rear	Front	Rear
Brake type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds	11/10 *	-	11/10 *	-	11/10 *
O.L.D. (mm)	142	100	142	100	135
Wheel size	622 x 19C (700C)	622 x 19C (700C)	622 x 19C (700C)	622 x 17C (700C)	622 x 17C (700C)
Tire	Type Tubeless	Type Clincher	Type Clincher	Type Clincher	Type Clincher
Height (mm)	28-622 - 45-622 19	28-622 - 42-622 19	28-622 - 42-622 19	25-622 - 38-622 24	25-622 - 38-622 24
Internal width (mm)	19	19	19	-	-
External width (mm)	23.4	24.6	24.6	23	23
Rim	Rim joint Welded	Rim joint Sleeve	Rim joint Sleeve	Rim joint Sleeve	Rim joint Sleeve
Brazed reinforcement	-	-	-	-	-
OFFSET RIM	-	-	-	-	-
Requires rim tape	✓	✓	✓	✓	✓
Spokes	Number 24	Straight pull ✓	Bladed -	Butted -	Diameter (mm) 2.0-1.8-2.0 2
Axle fixing method	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release	Quick release
Quick release skewer length (mm)	133	-	-	✓	-
Thru axle (length x inner diameter ; mm)	163	-	-	-	-
	168	-	-	-	✓
	100 x 8	-	-	-	-
	100 x 12	-	✓	-	-
	142 x 12	✓	-	✓	-
Spline type	MICRO SPLINE	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-
	HG spline L (ROAD 12/11-speed)	✓	-	✓	-
	HG spline M (10/9/8-speed MTB 11-speed CS/HG400/HG70)	-	-	-	-
	HG spline S (7-speed)	-	-	-	-
Engagement type	-	-	Pawl ratchet	-	Pawl ratchet
Bearing	Stainless ball	-	-	-	-
	Cup	Polish CBN	Polish CBN	Polish CBN	Polish CBN
	Cone	✓	✓	✓	✓
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	-	✓	✓
Internal grease sleeve	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized (black)	Anodized (black)
Rim	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black
Spoke	Material	Aluminum	Brass	Brass	Brass
	Finish	Black	Silver	Silver	Silver
Nipple	Material	Steel	-	Steel	Steel
	Finish	-	-	-	-
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Hub shell	Material	Steel	Aluminum	Steel	Steel
Axle	Finish	-	-	-	-
Quick release lever	Material	-	-	Aluminum	Aluminum
	Finish	-	-	Painted	Painted
Quick release housing	Material	-	-	Steel	Steel
	Finish	-	-	Painted	Painted
Quick release nut	Material	-	-	Resin	Resin
	Finish	-	-	Black	Black
Compatible spoke protector	CP-FH08 (23-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 10/11-speed)	-	CP-FH08 (23-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 10/11-speed)	-	CP-FH08/CP-WH12 (11-speed), CP-FH40/CP-FH41/CP-WH12 (10-speed)
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	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)	1090	897	1098	982	1177
Note	* The adapter is needed to use 10-speed cassette		* The adapter is needed to use 10-speed cassette		* The adapter is needed to use 10-speed cassette

Wheel (Rim Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.		WH-R9200-C60-HR-TU-F	WH-R9200-C60-HR-TU-R	WH-R9200-C50-TU-F	WH-R9200-C50-TU-R	WH-R9200-C36-TU-F	WH-R9200-C36-TU-R
Model name		WH-R9200-C60-HR-TU	WH-R9200-C60-HR-TU	WH-R9200-C50-TU	WH-R9200-C50-TU	WH-R9200-C36-TU	WH-R9200-C36-TU
Specification		F	R	F	R	F	R
Color	1 Hub shell	Series color					
	1 Quick release	Series color					
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear	Front	Rear	Front	Rear	Front	Rear	
Brake type	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	
Rear speeds	-	12	-	12	-	12	
O.L.D. (mm)	100	130	100	130	100	130	
Wheel size	700C	700C	700C	700C	700C	700C	
Tire	Type	Tubular	Tubular	Tubular	Tubular	Tubular	Tubular
	Recommended size	25-28" - 32-28"	25-28" - 32-28"	25-28" - 32-28"	25-28" - 32-28"	25-28" - 32-28"	25-28" - 32-28"
Rim	Height (mm)	60	60	50	50	36	36
	Internal width (mm)	-	-	-	-	-	-
	External width (mm)	28	28	28	28	28	28
	Rim joint	-	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
Spokes	Requires rim tape	-	-	-	-	-	-
	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
Axe fixing method		Quick release					
Quick release skewer length (mm)	133	✓	-	✓	-	✓	-
	163	-	✓	-	✓	-	✓
	168	-	✓	-	✓	-	✓
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L (ROAD 12-speed dedicated)	-	✓	-	✓	-	✓
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	Direct engagement	-	Direct engagement	-	Direct engagement
Bearing	Stainless ball	✓	✓	✓	✓	✓	✓
	Cup	CBN	CBN	CBN	CBN	CBN	CBN
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Disc mount	CENTER LOCK	-	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-	-
	140 mm disc brake rotor compatible	-	-	-	-	-	-
OPTBAL (2:1)		-	✓	-	✓	-	✓
D2 rim		-	-	-	-	-	-
Digital adjustment system		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal grease sleeve		-	-	-	-	-	-
Rim	Material	Carbon	Carbon	Carbon	Carbon	Carbon	Carbon
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel					
	Finish	Series color					
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	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
Axe	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					
Compatible spoke protector		-	CP-W124	-	CP-W124	-	CP-W124
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)		653	796	586	723	602	684
Note							

Wheel (Rim Brake)

ROAD

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

Wheel (Rim Brake)

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

Wheel (Rim Brake)

ROAD

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
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	Rear	Front	Rear	Front	Rear	Front
	Brake type	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
	Rear speeds	11/10 *	-	11/10 *	-	11/10/8/7	-
	O.L.D. (mm)	130	100	130	100	130	100
Tire	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)
	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	-	-	-	-	-	-
Axle fixing method	Diameter (mm)	2	2	2	2	2	2
	Quick release	Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
Quick release skewer length (mm)	133	-	✓	-	✓	-	✓
	163	✓	-	✓	-	✓	-
	168	✓	-	✓	-	✓	-
Thru axle (length x inner diameter ; mm)	100 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	✓	-	✓	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	-	-	✓	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type	Pawl ratchet	-	-	Pawl ratchet	-	Pawl ratchet	-
	Stainless ball	-	-	-	-	-	-
Bearing	Cup	Polish	Polish	Polish	Polish	Polish	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	CENTER LOCK	-	-	-	-	-	-
Disc mount	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	Material	-	-	-	-	-	-
	Rim	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Spoke	Finish	Black	Anodized	Anodized	Anodized	Anodized	Anodized
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Nipple	Finish	Black	Black	Black	Black	Black	Black
	Material	Brass	Brass	Brass	Brass	Brass	Brass
FREEHUB body	Finish	Silver	Silver	Silver	Silver	Silver	Silver
	Material	Steel	-	Steel	-	Steel	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Anodized	Anodized	Anodized
Axe	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Quick release housing	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Black	Painted	Painted	Painted	Painted	Painted
Quick release nut	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	Black	Black	Black	Black	Black	Black
Compatible spoke protector		CP-WH24 CP-FH53 (34T)	-	CP-WH24 CP-FH53 (34T)	-	CP-FH06 CP-FH31 CP-FH46 CP-WH24	-
Reflector	JIS/CPSC	CATEYE RR-550-WUU SW	CATEYE RR-550-WUU SW	CATEYE RR-550-WUU SW	CATEYE RR-550-WUU SW	CATEYE RR-550-WUU SW	CATEYE RR-550-WUU SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		1105	818	1102	820	1069	820
Note		* The adapter is needed to use 10-speed cassette		* The adapter is needed to use 10-speed cassette			

Wheel (Rim Brake)

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

Head Parts

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

ST

ST

SW

RD

FD

SMAD

ST

ST

SL

BL

BL

BL

BR

BR

BR

BR

BC

RD

FD

FC

FC

BB

BB

CS

HB

FH

WH

HP

LIFESTYLE Active

	<i>Page</i>	
<i><Mechanical spec.></i>		
Shifter	190	SL
Brake Lever (Hydraulic Disc Brake, Flat Handlebar Type)	201	BL
Brake Lever (Hydraulic Disc Brake, Drop Handlebar Type)	202	BL
Brake Lever (Drop Handlebar Type)	203	BL
Shift/Brake Lever (Hydraulic Disc Brake, Flat Handlebar type)	204	ST
Shift/Brake Lever (Flat Handlebar type)	206	ST
Shift/Brake Lever (Hydraulic Disc Brake, Drop Handlebar type)	209	ST
Shift/Brake Lever (Drop Handlebar type)	210	ST
Rear Derailleur	211	RD
Front Derailleur	216	FD
Brake (Hydraulic Disc Brake)	224	BR
Brake (Mechanical Disc Brake)	225	BL
Crankset	226	FC
Bottom Bracket (HOLLOWTECH II)	230	BB
Bottom Bracket	231	BB
Cassette	233	CS
Multiple Freewheel	237	MF
Front Hub (Disc Brake)	238	HB
Front Hub (Rim Brake)	240	HB
FREEHUB (Disc Brake)	241	FH
FREEHUB (Rim Brake)	244	FH
<i><Di2 spec.></i>		
Shift Switch	246	SW
Rear Derailleur	247	RD
AUTO SHIFT Dynamo FREEHUB	248	FH

Shifter

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

Shifter

LIFESTYLE
Active

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

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Shifter

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

Shifter

Series		ACERA	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO	SHIMANO	
Model no.		SL-M360-R	SL-M2010-9R	SL-M2010-L	SL-M2010-2L	SL-M315-8R	SL-M315-7R	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	
Front speeds		-	-	3	2	-	-	
Rear speeds		8	9	-	-	8	7	
Compatible rear derailleur type		MTB 8-speed	MTB 9-speed	-	-	MTB 8-speed	MTB 7-speed	
Mount type	Clamp band	✓	✓	✓	✓	✓	✓	
	I-SPEC B	-	-	-	-	-	-	
	I-SPEC II	-	-	-	-	-	-	
	I-SPEC EV	-	-	-	-	-	-	
Shift lever position adjust		-	-	-	-	-	-	
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-	
Shift lever cable adjust		✓	✓	✓	✓	✓	✓	
Front 2/3 mode converter		-	-	-	-	-	-	
Max. multiple shifts (main lever/rear)		3	3	-	-	3	3	
Release function	MULTI RELEASE	-	-	-	-	-	-	
	INSTANT RELEASE	-	-	-	-	-	-	
	2-WAY RELEASE	-	-	-	-	-	-	
	Adjustable lever	-	-	-	-	-	-	
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓	
	With (removable)	-	-	-	-	-	-	
	Without	-	-	-	-	-	-	
Multi-bearing construction		-	-	-	-	-	-	
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	-	Plated	Plated	Plated	Plated	Plated	
Main lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	
	Finish	-	-	-	-	-	-	
Release lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	
	Finish	-	-	-	-	-	-	
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Finish	-	-	-	-	-	-	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLIC K	-	✓	✓	✓	-	
		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								

SL

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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	-	-	-	-	-	
		OPTISLIC K	-	-	-	-	-	
		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

LIFESTYLE
Active

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	
Model no.		SL-TX50-LN	SL-TX30-7R	SL-TX30-6R	SL-TX30-LN	SL-RS45-6R	SL-RS36-7R	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
Shifter type		Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	REVOSHIFT	REVOSHIFT	
Front speeds		3 (friction)	-	-	3 (friction)	-	-	
Rear speeds		-	7	6	-	6	7	
Compatible rear derailleur type		-	MTB 7-speed	MTB 6-speed	-	MTB 6-speed	MTB 7-speed	
Mount type	Clamp band	✓	✓	✓	✓	✓	✓	
	I-SPEC B	-	-	-	-	-	-	
	I-SPEC II	-	-	-	-	-	-	
	I-SPEC EV	-	-	-	-	-	-	
Shift lever position adjust		-	-	-	-	-	-	
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-	
Shift lever cable adjust		✓	-	-	✓	✓	-	
Front 2/3 mode converter		-	-	-	-	-	-	
Max. multiple shifts (main lever/rear)		-	6	5	-	5	6	
Release function	MULTI RELEASE	-	-	-	-	-	-	
	INSTANT RELEASE	-	-	-	-	-	-	
	2-WAY RELEASE	-	-	-	-	-	-	
	Adjustable lever	-	-	-	-	-	-	
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓	
	With (removable)	-	-	-	-	-	-	
	Without	-	-	-	-	-	-	
Multi-bearing construction		-	-	-	-	-	-	
Shift lever bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	-	
Main lever body	Material	Resin	Resin	Resin	Resin	-	-	
	Finish	-	-	-	-	-	-	
Release lever body	Material	Resin	Resin	Resin	Resin	-	-	
	Finish	-	-	-	-	-	-	
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Finish	-	-	-	-	-	-	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLIC K	-	-	-	-	-	
		SIL-TEC	-	-	-	-	-	
		Stainless	-	-	-	-	-	
		Steel	✓	✓	✓	✓	✓	
Recommended shift lever outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	
Average weight (g)		-	-	-	-	-	-	
Note							w/ CI-DECK spec is available as option	

Shifter

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	SHIMANO	
Model no.		SL-RS36-6R	SL-RS35-7R	SL-RS35-6R	SL-RS35-L	SL-RS35-LN	SL-RV400-8R	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	
Front speeds		-	-	-	3	3 (friction)	-	
Rear speeds		6	7	6	-	-	8	
Compatible rear derailleur type		MTB 6-speed	MTB 7-speed	MTB 6-speed	-	-	MTB 8-speed	
Mount type	Clamp band	✓	✓	✓	✓	✓	✓	
	I-SPEC B	-	-	-	-	-	-	
	I-SPEC II	-	-	-	-	-	-	
	I-SPEC EV	-	-	-	-	-	-	
Shift lever position adjust		-	-	-	-	-	-	
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-	
Shift lever cable adjust		-	-	-	✓	✓	-	
Front 2/3 mode converter		-	-	-	-	-	-	
Max. multiple shifts (main lever/rear)		5	6	5	-	-	7	
Release function	MULTI RELEASE	-	-	-	-	-	-	
	INSTANT RELEASE	-	-	-	-	-	-	
	2-WAY RELEASE	-	-	-	-	-	-	
	Adjustable lever	-	-	-	-	-	-	
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓	
	With (removable)	-	-	-	-	-	-	
	Without	-	-	-	-	-	-	
Multi-bearing construction		-	-	-	-	-	-	
Shift lever bracket	Material	Steel	Resin	Resin	Resin	Resin	Resin	
	Finish	Painted	Resin	Resin	Resin	Resin	Resin	
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	-	
Main lever body	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Release lever body	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Finish	-	-	-	-	-	-	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLIC K	-	-	-	-	-	
		SIL-TEC	-	-	-	-	-	
		Stainless	-	-	-	-	-	
		Steel	✓	✓	✓	✓	✓	
Recommended shift lever outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	
Average weight (g)		-	-	-	-	-	-	
Note		w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option				

Shifter

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		SL-RV400-7R	SL-RV400-6R	SL-RV400-L	SL-RV400-LN	SL-RV300-7R	SL-RV300-6R	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	
Front speeds		-	-	3	3 (friction)	-	-	
Rear speeds		7	6	-	-	7	6	
Compatible rear derailleur type		MTB 7-speed	MTB 6-speed	-	-	MTB 7-speed	MTB 6-speed	
Mount type	Clamp band	✓	✓	✓	✓	✓	✓	
	I-SPEC B	-	-	-	-	-	-	
	I-SPEC II	-	-	-	-	-	-	
	I-SPEC EV	-	-	-	-	-	-	
Shift lever position adjust		-	-	-	-	-	-	
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-	
Shift lever cable adjust		-	-	✓	-	-	-	
Front 2/3 mode converter		-	-	-	-	-	-	
Max. multiple shifts (main lever/rear)		6	5	-	-	6	5	
Release function	MULTI RELEASE	-	-	-	-	-	-	
	INSTANT RELEASE	-	-	-	-	-	-	
	2-WAY RELEASE	-	-	-	-	-	-	
	Adjustable lever	-	-	-	-	-	-	
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓	
	With (removable)	-	-	-	-	-	-	
	Without	-	-	-	-	-	-	
Multi-bearing construction		-	-	-	-	-	-	
Shift lever bracket	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Finish	Resin	Resin	Resin	Resin	Resin	Resin	
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	-	
Main lever body	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Release lever body	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Finish	-	-	-	-	-	-	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLIC K	-	-	-	-	-	
		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								

SL

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Shifter

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		SL-RV300-L	SL-RV300-LN	SL-RV200-7R	SL-RV200-6R	SL-RV200-L	SL-RV200-LN	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	
Front speeds		3	3 (friction)	-	-	3	3 (friction)	
Rear speeds		-	-	7	6	-	-	
Compatible rear derailleur type		-	-	MTB 7-speed	MTB 6-speed	-	-	
Mount type	Clamp band	✓	✓	✓	✓	✓	✓	
	I-SPEC B	-	-	-	-	-	-	
	I-SPEC II	-	-	-	-	-	-	
	I-SPEC EV	-	-	-	-	-	-	
Shift lever position adjust		-	-	-	-	-	-	
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-	
Shift lever cable adjust		-	-	-	-	✓	-	
Front 2/3 mode converter		-	-	-	-	-	-	
Max. multiple shifts (main lever/rear)		-	-	6	5	-	-	
Release function	MULTI RELEASE	-	-	-	-	-	-	
	INSTANT RELEASE	-	-	-	-	-	-	
	2-WAY RELEASE	-	-	-	-	-	-	
	Adjustable lever			-	-	-	-	
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	-	
	With (removable)	-	-	-	-	-	-	
	Without	-	-	-	-	-	-	
Multi-bearing construction		-	-	-	-	-	-	
Shift lever bracket	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Finish	Resin	Resin	Resin	Resin	Resin	Resin	
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	-	
Main lever body	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Release lever body	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Finish	-	-	-	-	-	-	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLIC K	-	-	-	-	-	
		SIL-TEC	-	-	-	-	-	
		Stainless	-	-	-	-	-	
		Steel	✓	✓	✓	✓	✓	
Recommended shift lever outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	
Average weight (g)		-	-	-	-	-	-	
Note								

Shifter

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

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Shifter

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

Brake Lever (Hydraulic Disc Brake, Flat Handlebar Type)

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

Brake Lever (Hydraulic Disc Brake, Drop Handlebar Type)

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

Brake Lever (Drop Handlebar Type)

Series		CUES	SHIMANO ESSA
Model no.		BL-U3030-L	BL-U2030-L
Color	1	Series color	Series color
	2	Polished silver (NEW)	-
	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 dérailleur 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	
	Polymer-coated cable	-	-	-	-	-	-	
		OPTISLIC K	✓	✓	✓	✓	✓	
	SIL-TEC	-	-	-	-	-	-	
	Stainless	-	-	-	-	-	-	
	Steel	✓	✓	✓	✓	✓	✓	
Brake lever	Lever size (finger)		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	
	Hose joint		Straight	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	
		2	-	-	-	-	-	
	J-Kit spec (for OEM)		✓	✓	✓	✓	✓	
	Recommended brake caliper		BR-MT200	BR-MT200	BR-MT200	BR-MT200	BR-MT200	
	Oil		SHIMANO Mineral					
	Reach adjust	Toolless	-	-	-	-	-	
		Tool	✓	✓	✓	✓	✓	
	Funnel bleeding		✓	✓	✓	✓	✓	
	Free stroke adjust		-	-	-	-	-	
	SERVO WAVE		-	-	-	-	-	
	Material		Steel	Steel	Steel	Steel	Aluminum	
	Finish		Painted	Painted	Painted	Painted	Painted	
Clamp band	Open clamp		-	-	-	-	-	
Shifter lever body	Main		Steel & Resin					
	Release		Steel & Resin					
Master cylinder	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish		Painted	Painted	Painted	Painted	Painted	
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
		Finish	Painted	Painted	Painted	Painted	Painted	
	Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	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 dérailleur type	MTB 7-speed	-	-		
	I-SPEC compatible	-	-	-		
	Shift lever position adjust	-	-	-		
	MULTI RELEASE	-	-	-		
	Release function	INSTANT RELEASE	-	-		
	2-WAY RELEASE	-	-	-		
	Shift lever cable adjust	✓	✓	✓		
	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						

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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 2	Black Silver	Black Silver	Black -	Black -	Black Silver	Black Silver
Shift lever	Shifter type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
	Front speeds	-	3	-	-	-	3
	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	-
	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-	-	-
	With	✓	✓	✓	✓	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	-	-	-	-	-	-
	Multi-Bearing construction	-	-	-	-	-	-
	Main lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shift lever cable	Release lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	Resin	Resin
	Finish	-	-	-	-	-	-
	Outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40	OT-SIS40
	Polymer-coated cable	-	-	-	-	-	-
	OPTISLIC K	-	-	-	-	-	-
	SIL-TEC	-	-	-	-	-	-
Brake lever	Stainless	-	-	-	-	-	-
	Steel	✓	✓	✓	✓	✓	✓
	V-BRAKE	✓	✓	✓	✓ with switch*	✓	✓
	Mechanical disc brake (MTB)	✓	✓	✓	✓ with switch*	✓	✓
	Mechanical disc brake (Road)	-	-	-	-	-	-
	Caliper (SLR-EV)	-	-	-	-	-	-
	Caliper (NEW SUPER SLR)	-	-	-	-	-	-
	Caliper (SUPER SLR)	-	-	-	✓ with switch	-	-
	Cantilever brake	-	-	-	✓ with switch	-	-
	Roller brake	-	-	-	✓ with switch	-	-
	Recomm ended POWER MODULATOR	-	-	-	SM-PM40	-	-
	Mechanical disc brake (MTB)	-	-	-	SM-PM50	-	-
Bracket	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	Steel/Resin	Steel/Resin
	Finish	Anodized	Anodized	Painted	Painted	-	-
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
	Clamp screw	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Plated	Plated	Zinc plated	Zinc plated
Average weight (g)		-	-	-	-	-	-
Note					* POWER MODULATOR must be used for front brake		

Shift/Brake Lever (Flat Handlebar type)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		ST-EF500-7R2A	ST-EF500-7R4A	ST-EF500-L2A	ST-EF500-L4A	ST-EF500-2L2A	ST-EF500-2L4A
Color	1 2	Black	Black	Black	Black	Black	Black
Shifter type	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
Front speeds	-	-	3	3	2	2	
Rear speeds	7	7	-	-	-	-	
Compatible rear derailleuer 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	-	-	-	-	
Shift lever	MULTI RELEASE	-	-	-	-	-	
Release function	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
	Polymer-coated cable	-	-	-	-	-	-
Inner cable	OPTISLICK	-	-	-	-	-	-
	SIL-TEC	-	-	-	-	-	-
	Stainless	-	-	-	-	-	-
	Steel	✓	✓	✓	✓	✓	✓
Brake lever	V-BRAKE	✓	✓ with switch*	✓	✓ with switch*	✓	✓ with switch*
	Mechanical disc brake (MTB)	✓	✓ with switch*	✓	✓ with switch*	✓	✓ with switch*
	Mechanical disc brake (Road)	-	-	-	-	-	-
	Caliper (SLR-EV)	-	-	-	-	-	-
	Caliper (NEW SUPER SLR)	-	-	-	-	-	-
	Caliper (SUPER SLR)	-	✓ with switch	-	✓ with switch	-	✓ with switch
	Cantilever brake	-	✓ with switch	-	✓ with switch	-	✓ with switch
	Roller brake	-	✓ with switch	-	✓ with switch	-	✓ with switch
	Recommended POWER MODULATOR	-	SM-PM40	-	SM-PM40	-	SM-PM40
	Mechanical disc brake (MTB)	-	SM-PM50	-	SM-PM50	-	SM-PM50
	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	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Material	Painted	Painted	Painted	Painted	Painted	Painted
	Clamp screw	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)		-	-	-	-	-	-
Note		* POWER MODULATOR must be used for front brake		* POWER MODULATOR must be used for front brake		* POWER MODULATOR must be used for front brake	

Shift/Brake Lever (Flat Handlebar type)

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		ST-EF41-7R	ST-EF41-6R	ST-EF41-L
Color	1 2	Black	Black	Black
Shifter type		EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
Shift lever	Front speeds	-	-	3
	Rear speeds	7	6	-
	Compatible rear dérailleur 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	-
	MULTI RELEASE	-	-	-
	INSTANT RELEASE	-	-	-
	2-WAY RELEASE	-	-	-
	With	✓	✓	✓
	With (removable)	-	-	-
	Without	-	-	-
	Multi-Bearing construction	-	-	-
Main lever body	Material	Resin	Resin	Resin
	Finish	-	-	-
	Release lever body	Resin	Resin	Resin
	Finish	-	-	-
Shift lever cable	Outer casing	OT-SIS40	OT-SIS40	OT-SIS40
	Polymer-coated cable	-	-	-
	OPTISLICK	-	-	-
	SIL-TEC	-	-	-
	Stainless	-	-	-
	Steel	✓	✓	✓
Brake lever	V-BRAKE	✓	✓	✓
	Mechanical disc brake (MTB)	✓	✓	✓
	Mechanical disc brake (Road)	-	-	-
	Caliper (SLR-EV)	-	-	-
	Caliper (NEW SUPER SLR)	-	-	-
	Caliper (SUPER SLR)	-	-	-
	Cantilever brake	-	-	-
	Roller brake	-	-	-
	V-BRAKE	-	-	-
	Mechanical disc brake (MTB)	-	-	-
	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	Brake lever	Steel/Resin	Steel/Resin	Steel/Resin
	Material	Steel	Steel	Steel
	Finish	Painted	Painted	Painted
	Clamp screw	Steel	Steel	Steel
Bracket	Material	Zinc plated	Zinc plated	Zinc plated
	Finish	-	-	-
Average weight (g)		-	-	-
Note				

Shift/Brake Lever (Hydraulic Disc Brake, Drop Handlebar type)

Series		CUES	CUES
Model no.		ST-U6030-R	ST-U6030-L
Color	1	Series color	Series color
	2	Polished silver (NEW)	-
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shift lever	Front speeds	-	2
	Rear speeds	11/10	-
	Max. multiple shifts (main lever/rear)	2	-
	Multi-bearing construction	-	-
Brake lever	Brake hose (kit)	SM-BH59-JK-SSR	SM-BH59-JK-SSR
	Hose joint	Straight	Straight
	Brake hose color (kit)	1	Black
	2	-	-
	Recommended brake caliper	BR-U6030, BR-RS405	BR-U6030, BR-RS405
	Oil	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust	✓	✓
	Clamp band (mm)	23.8-24.2	23.8-24.2
	Funnel bleeding	✓	✓
	Free stroke adjust	-	-
	SERVO WAVE	-	-
Bracket	Material	Engineering composite	Engineering composite
	Finish	-	-
Brake lever	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Clamp band	Material	Steel	Steel
Shift lever cable	Outer casing	Lever side	OT-SP41
		Rear derailleuer 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 (NEW)	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shift lever	Front speeds	2	-	-	-	2	3	
	Rear speeds	-	10	9	8	7	-	
	Multi-bearing construction	0	0	0	0	-	-	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40	OT-SIS40
		Rear derailleur side	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SIS40	OT-SIS40
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLICK	✓	✓	✓	✓	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	✓ *	✓ *
		Steel	✓	✓	✓	✓	-	-
Brake lever	Reach adjust	Screw	Screw	Screw	Screw	Screw	Screw	
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
	SLR-EV	-	-	-	-	-	-	
	NEW SUPER SLR	✓	✓	✓	✓	-	-	
	SUPER SLR	-	-	-	-	✓	✓	
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
Bracket	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
	Finish	-	-	-	-	-	-	
Average weight (g)		-	-	-	-	-	-	
Note						* Option	* Option	

Rear Derailleur

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

Rear Derailleur

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

Rear Derailleur

Series		SHIMANO ESSA	ACERA	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	-	✓	✓	✓	-	✓
Applicable derailleuer 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
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
Fluoroc coated link bushings		-	1	-	-	-	-
Pulley	Guide pulley bearing	-	-	-	-	-	-
	Tension pulley bearing	-	-	-	-	-	-
	Teeth	11/11T	11T	13/15T	13/13T	11/13T	13/13T
	Screws material	Steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley screw	✓	✓	-	-	-	-
Bracket	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
B-axle	Hollow axle	-	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
	Finish	-	-	-	-	MnPO4	Zinc plated
B-axle 2	Hollow axle	-	-	-	-	-	-
	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Resin	Resin	Resin
	Finish	Painted	Painted	Painted	Painted	-	-
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Plated	Zinc plated
Plate body	Material	PA+GF	PA+GF	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Outer link	Material	PA+GF	Steel	Steel	Steel	Steel	Steel
	Finish	-	Painted	Painted	Painted	Painted	Painted
Inner link	Material	PA+GF	Steel	Steel	Steel	Steel	Resin
	Finish	-	Zinc plated	Zinc plated	Zinc plated	Zinc plated	-
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Zinc plated	Zinc plated	Painted	Painted
Cable fixing screw	Material	Stainless Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	Zinc plated	Zinc plated	Zinc plated	Zinc Plated	Zinc plated
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Zinc plated	Zinc plated	Zinc plated	Zinc Plated	Zinc plated
Average weight (g)		-	-	-	-	-	-
Note			-				w/ Wheel type cable guide

Rear Derailleur

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		RD-TY300-SGS	RD-TY200-SS	RD-TY200-GS	RD-FT35-A-SS	RD-TY21-B-SS	RD-TY21-B-GS
Color	1	Series color	Black	Black	Black	Black	Black
	2	-	-	-	-	Silver	Silver
Rear speeds		7/6	7/6 (Front single)	7/6	7/6 (Front single)	6	6
Compatible chain		HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed
RD construction	SHIMANO SHADOW RD	-	-	-	-	-	-
	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	✓	-	-	-	-	-
Applicable derailleuer 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
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
Fluoroc 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-T2500-GS	
Color	1	Series color	
	2	-	
Rear speeds		6	
Compatible chain		HG 8/7/6-speed	
RD construction	SHIMANO SHADOW RD	-	
	SHIMANO SHADOW RD+	-	
	Double servo	-	
Applicable derailleuer 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	
Fluoroc 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				
	2	-	-	-	-	-	-
Front speeds		2	2	2	2	2	2
Rear speeds		11/10	11/10	11/10	11/10	11/10	10/9
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed				
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	✓	-	-	✓	✓	-
	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				
Cable fixing screw	Material	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					
	2	-	-	-	-	-	-
Front speeds		2	2	2	2	2	2
Rear speeds		10/9	10/9	10/9	10/9	10/9	9
Compatible chain		LINKGLIDE, HG 11-speed					
Action	TOP SWING	-	-	-	-	✓	✓
	Down swing	✓	-	-	-	-	-
	SIDE SWING	-	✓	✓	✓	-	-
Mount	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	✓	-	-	✓	✓	✓
	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					
	Finish	-	-	-	-	-	-
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Stainless steel
	Finish	Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated	Zinc plated	-
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-
Note		-	-	-	-	-	-

Front Derailleur

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

Front Derailleur

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

Front Derailleur

Series		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 31.8 34.9	✓ (w/ S size adapter) ✓ (w/ M size adapter)	✓ (w/ S size adapter) ✓ (w/ M size adapter)	✓ (w/ S size adapter) ✓ (w/ M size adapter)	✓ (w/ S size adapter) ✓ (w/ M size adapter)	✓ (w/ S size adapter) ✓ (w/ M size adapter)
	E-type	With bottom bracket plate Without bottom bracket plate	- -	- -	- -	- -	- -
	Direct mount	-	-	-	-	-	-
	Brazed-on	-	-	-	-	-	-
	Cable adjust	-	-	-	-	-	-
	Dual-pull	✓	✓	✓	✓	✓	✓
	Top-pull exclusive	-	-	-	-	-	-
	Down-pull exclusive	-	-	-	-	-	-
	Front-pull	-	-	-	-	-	-
	Chain line (mm)	50	50	50	50	48.8/51.8 *	47.5/50
Chainstay angle (deg.)		63-66	66-69	63-66	66-69	64-69	63-66
Top gear teeth		44T, 48T	44T, 48T	44T, 48T	44T, 48T	36T	42T, 48T
Total capacity		22T	22T	22T	22T	14T	20T
Applicable top-mid tooth difference		12T	12T	12T	12T	-	10T
Multi access cable fixing screw		-	-	-	-	-	-
Angled stroke adjust screw		-	-	-	-	✓	-
Angled clamp band design		✓	✓	✓	✓	✓	✓
Multi-bearing construction		-	-	-	-	-	-
Link bushings		-	-	-	-	-	-
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Rear clamp band, base bracket	Material	Steel	Steel	Aluminum	Aluminum	Steel	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Bottom bracket plate	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Zinc plated	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-
Note						* Boost spec.	

Front Derailleur

Series		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)				
		31.8	✓ (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	-	-	-	-	-	-
	Dual-pull	✓	✓	✓	✓	-	-
Cable route type	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 (NEW)	Polished silver (NEW)	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SBM	SM-BH90-SS	SM-BH90-SBM	SM-BH59-JK-SSR	SM-BH59-JK-SSR	SM-BH59-JK-SS
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
Hose joint		Banjo	Straight	Banjo	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
ICE TECHNOLOGIES pad compatible caliper		✓	✓	✓	-	-	-
Pad	Standard 1	G05A-RX Resin (w/o fin)	K05S-RX Resin (w/o fin)*	N03A-RF Resin (w/ fin)	B05S-RX Resin (w/o fin)	B05S-RX Resin (w/o fin)	B05S-RX Resin (w/o fin)
	Standard 2	-	L05A-RF Resin (w/ fin)**	D03S-RX Resin (w/o fin)	-	-	-
	Option 1	G04S-MX Metal (w/o fin)	-	N04C-MF Metal (w/ fin)	-	-	-
	Option 2	J05A-RF Resin (w/ fin)	-	D02S-MX Metal (w/o fin)	-	-	-
Fixing screw spec for rear mount	10 mm mount	-	✓	-	✓	✓	✓
	15 mm mount	-	✓	-	✓	✓	✓
	20 mm mount	-	✓	-	✓	✓	✓
	25 mm mount	-	✓	-	✓	✓	✓
	30 mm mount	-	✓	-	✓	✓	✓
	35 mm mount	-	✓	-	✓	✓	✓
	15.2 mm	-	-	-	-	-	-
	18.7 mm	✓	-	✓	-	-	-
Recommended brake lever		BL-U8000	BL-U8000	BL-U8000	ST-U6030 BL-U6030-L	ST-U6030 BL-U6030-L	BL-MT201 BL-MT200
Recommended disc brake rotor		RT-MT800	RT-MT800	RT-MT800	SM-RT54 SM-RT30	SM-RT54 SM-RT30	SM-RT10 * SM-RT26
Compatible rotor size	140 mm (SS)	✓	✓	✓	-	-	-
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	✓	✓	✓	✓	✓	✓
	203 mm (L)	✓	-	✓	-	-	-
	220 mm (LL)	✓	-	✓	-	-	-
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓	-	✓	✓	✓
Mount type		Post type	Flat mount	Post type	Flat mount	Flat mount	Flat mount
Piston		2	2	4	2	2	2
Piston material		Ceramic	Resin	Ceramic	Resin	Resin	Resin
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	5 mm	4mm	5 mm	4 mm	4 mm	5 mm
	Anti loosen method	Snap ring	Screw fix pin+Snap ring	Snap ring	Screw fix pin+Snap ring	Screw fix pin+Snap ring	Screw fix pin+Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Split pin	Split pin	Split pin
Average weight (g)		107		117	-	-	-
Average weight (g) (kit for front 800 mm, w/ pad (Standard 1), w/o adapter, w/ 2 screws)		-	146 (Front) 137 (Rear)	-	-	-	-
Note			* Available in OEM package only ** Available in OTC package only				* Only compatible with resin pad

Brake (Mechanical Disc Brake)

Series		TOURNEY TX
Model no.		BR-TX805
Color	1	Black
	2	-
	3	-
Brake type		Mechanical disc brake
ICE TECHNOLOGIES pad compatible caliper		-
Pad	Standard 1	B055-RX Resin (w/o fin)
	Standard 2	-
	Option 1	-
	Option 2	-
Recommended brake lever		V-BRAKE BL (1.5-2.5 finger)
Recommended disc brake rotor		SM-RT10, SM-RT26
Mount type		Post type
Piston		1
Piston material		-
Caliper	MONO-BODY	-
	Material	Aluminum
	Finish	Painted
Caliper fixing screw	Material	Steel
	Tool size	5 mm
	Anti loosen method	Snap ring
Pad mount		Split pin
Average weight (g)		-
Note		

Crankset

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

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		10/9	10/9	11/10/9	11/10/9	11/10/9	11/10/9
Compatible chain		LINKGLIDE HG 11-speed	LINKGLIDE HG 11-speed	LINKGLIDE HG 11-speed	LINKGLIDE HG 11-speed	LINKGLIDE HG 11-speed	LINKGLIDE HG 11-speed
Chain line (mm)		47	47	50	50	48.8	51.8
O.L.D.	Thru (mm)	142	142	142	142	142	148
	QR/Nut (mm)	135	135	135	135	135	141
P.C.D. (mm)		110	110	110	110	Riveted	Riveted
Spider/gear arms		4	4	4	4	4	4
Chainring combination		46-32T, 50-34T	46-32T, 50-34T	40T, 42T	40T, 42T	36-22T, 40-26T	36-22T
Q-factor (mm)		152	152	152	152	178	178
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	-	✓	-	-	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	✓	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	-	-	✓ (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	-	-
Axe 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)	142	148	148, 142 (30T, 32T), 142 (40T, 42T)	148, 142	148/142 (32T), 142 (40T)	142
	QR/Nut (mm)	135	141	141, 135 (30T, 32T), 135 (40T, 42T)	141, 135	141/135 (32T), 135 (40T)	135
P.C.D. (mm)		Riveted	Riveted	Riveted	Riveted	Riveted	Riveted
Spider/gear arms		4	4	4	4	4	-
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	-	-	-	-
A 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							

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)	142	142	142	142	142	142
	QR/Nut (mm)	135	135	135	135	135	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	-	-	-	-	-	-
Axe length of BB-UN/ES (mm)		LL123	LL123	D-NL, *D-EL	D-NL, *D-EL	MM110	LL113
Threaded bottom bracket, shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	-	-	-	-	✓	✓
	73	✓	✓	✓	✓	-	-
	83	-	-	-	-	-	-
Chain case compatible		✓	-	✓	✓	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	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				* Bottom bracket spec. for chain line 50 mm	150 mm spec. available for 42-34-22T (Black) * Bottom bracket Spec for Chain line 50 mm		

Bottom Bracket (*HOLLOWTECH II*)

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

Bottom Bracket

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

Bottom Bracket

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

Cassette

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	CS-LG700-11	CS-LG400-11	CS-LG400-10
Type	LINKGLIDE	LINKGLIDE	LINKGLIDE
Rear speeds	11	11	10
Compatible chain	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Combination name (Group name)	11-45T, 11-50T	11-45T, 11-50T	11-39T, 11-43T, 11-48T**
Combination * Titanium gear	1 2 3 4 5 6 7	11-13-15-17-20-23-26-30-34-39-45T 11-13-15-17-20-23-26-30-36-43-50T - - - - -	11-13-15-17-20-23-26-30-34-39-45T 11-13-15-17-20-23-26-30-36-43-50T - - - - -
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	1 Painted	- -
Steel spider arm	QTY (pcs) Finish	- -	- -
Titanium gear	QTY (pcs) Finish	- -	- -
Aluminum gear	QTY (pcs) Finish	- -	- -
Steel gear	QTY (pcs) Finish	11 Plated	11 Plated
Lock ring	Material Finish	Aluminum Anodized	Steel Plated
Average weight (g)	609 (11-50T)	-	-
Note	* Follow compatibility chart	* Follow compatibility chart	* Follow compatibility chart ** Silver color is available (NEW)

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 2 3 4 5 6 7	11-13-15-17-20-23-26-30-34-39T 11-13-15-17-20-23-28-34-41-48T - - - - -	11-13-15-17-20-23-26-30-36T 11-13-15-17-20-23-28-34-41T 11-13-15-17-20-23-28-36-46T - - - - -
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) Finish	10 MnPO4	9 Plated
Lock ring	Material Finish	Steel MnPO4	Steel Plated
Average weight (g)	-	-	-
Note	* Follow compatibility chart	* Follow compatibility chart	* Follow compatibility chart

Cassette

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

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	CS-HG400-8	CS-HG41-8	CS-HG31-8
Type	HG	HG	HG
Rear speeds	8	8	8
Compatible chain	IG, HG 8/7/6-speed	IG, HG 8/7/6-speed	IG, HG 8/7/6-speed
Combination name (Group name)	11-40T, 11-45T	11-30T (an), 11-32T (aw), 11-34T (ao)	11-30T (an), 11-32T (aw), 11-34T (ao)
Combination * Titanium gear	1	11-13-15-18-22-27-33-40T	11-13-15-17-20-23-26-30T (an)
	2	11-13-15-18-22-27-35-45T	11-13-15-18-21-24-28-32T (aw)
	3	-	11-13-15-17-20-23-26-34T (ao)
	4	-	-
	5	-	-
	6	-	-
	7	-	-
	MICRO SPLINE	-	-
Spline type	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)	-	-
	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
	Finish	Nickel plated	Nickel plated
Lock ring	Material	Steel	Phosphate coated
	Finish	Phosphate coated	Steel
	Average weight (g)	-	Phosphate coated
	Note	-	-

Cassette

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	CS-HG200-8	CS-HG300-8	CS-HG400-7
Type	HG	HG	HG
Rear speeds	8	8	7
Compatible chain	HG 8/7/6-speed	HG 8/7/6-speed	IG, HG 8/7/6-speed
Combination name (Group name)	12-32T (br)	11-45T	11-28T (ac)
Combination *	1 2 3 4 5 6 7	12-14-16-18-21-24-28-32T (br)	11-13-15-18-22-27-35-45T
Titanium gear			11-13-15-18-21-24-28T (ac)
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) Finish	8 Painted	8 Phosphate coated
Lock ring	Material Finish	Steel Painted	Steel Phosphate coated
Average weight (g)	-	-	-
Note			

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	CS-HG41-7	CS-HG20-7	CS-HG210-7
Type	HG	HG	HG
Rear speeds	7	7	7
Compatible chain	IG, HG 8/7/6-speed	IG, HG 8/7/6-speed	IG, HG 8/7/6-speed
Combination name (Group name)	11-28T (ac)	12-28T (E)	12-28T (bm), 12-32T (bp)
Combination *	1 2 3 4 5 6 7	11-13-15-18-21-24-28T (ac)	12-14-16-18-21-24-28T (E) 12-14-16-18-21-26-32T (bp)
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) Finish	7 Nickel plated	7 Brown+Black
Lock ring	Material Finish	Steel Phosphate coated	Steel Phosphate coated
Average weight (g)	-	-	-
Note			

Cassette

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

Multiple Freewheel

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.	MF-TZ500-7	MF-TZ510-7	MF-TZ500-6	MF-TZ510-6	
Type	HG/UG	HG/UG	HG/UG	HG/UG	
Rear speeds	7	7	6	6	
Compatible chain	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	
Combination name (Group name)	14-28T, 14-34T	14-28T, 14-34T	14-28T	14-28T	
Combination * Titanium gear	1	14-16-18-20-22-24-2 8T	14-16-18-20-22-24-2 8T	14-16-18-21-24-28T	14-16-18-21-24-28T
	2	14-16-18-20-22-24-3 4T	14-16-18-20-22-24-3 4T	-	-
	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		✓	✓	✓	-	-	-
Axe fixing method		Quick release	Quick release	Quick release	12 mm E-THRU	15 mm E-THRU	15 mm E-THRU
Quick release skewer length (mm)	129	-	-	✓	-	-	-
	133	✓	✓	✓	-	-	-
Thru axle (length x inner diameter; mm)	100 x 12	-	-	-	✓	-	-
	100 x 15	-	-	-	-	✓	-
	110 x 15	-	-	-	-	-	✓
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		58.1	60.2	60.2	60.2	60.2	70.2
Offset (mm)		5.3	5.3	5.3	5.3	5.3	5.3
P.C.D. left / right (mm)		61/61	44/44	44/44	44/44	44/44	44/44
Flange diameter left / right (mm)		70.6	52.8	52.8 (32H/36H), 53.8 (28H)	52.8	52.8	52.8
Seal		Contact	Contact	Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
Internal grease sleeve		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	-	-
	Cartridge	✓	✓	-	✓	✓	✓
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Anodized	Anodized	Anodized
Axe	Material	Steel	Steel	Steel	-	-	-
	Finish	-	-	-	-	-	-
Quick release lever	Material	Aluminum	Aluminum	Steel	-	-	-
	Finish	Plated	Plated	Plated	-	-	-
Quick release housing	Material	Steel	Steel	Steel	-	-	-
	Finish	Plated	Plated	Plated	-	-	-
Quick release nut	Material	Steel+Resin	Steel+Resin	Steel+Resin	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Note							

Front Hub (Disc Brake)

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

Front Hub (Rim Brake)

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

FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-QC500-MS	FH-QC500-MS-B	FH-QB400-HM	FH-QC400-HM	FH-QC400-HM-B	FH-QC300-HM
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	Black	Black	Black
	2 Hub shell	-	-	-	Silver (NEW)	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		12	12	11/10/9/8/7	11/10/9/8/7	11/10/9/8/7	11/10/9/8/7
O.L.D. (mm)		135	141	135	135	141	135
Spoke hole	24H	-	-	-	-	-	-
	28H	✓	✓	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
10 tooth cog compatible		✓	✓	-	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	✓	-	✓
Axe fixing method		Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
Quick release skewer length (mm)	166	-	-	-	-	-	✓
	168	✓	-	✓	✓	-	-
	170	-	-	-	-	-	✓
	172	-	-	-	-	-	-
	173	✓	-	✓	✓	-	-
	174	-	✓	-	-	✓	-
	176	-	-	-	-	-	-
	178	-	✓	-	-	✓	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
	148 x 12	-	-	-	-	-	-
	150 x 12	-	-	-	-	-	-
157 x 12		-	-	-	-	-	-
Flange distance (mm)		55.45	61.45	54.5	55.45	61.45	55.45
Offset (mm)		7.6	7.6	6.1	7.6	7.6	7.6
P.C.D. left / right (mm)		50.5/51.5	50.5/51.5	61.7/61.7	45/45	45	45/45
Flange diameter left / right (mm)		59.3/60.3	59.3/60.3	70.6/70.6	53.8/53.8	53.8	53.8
Spline type	MICRO SPLINE	✓	✓	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	-	-	✓	✓	✓	✓
	HG spline S (7-speed)	-	-	-	-	-	-
	Engagement type	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		-	-	-	-	-	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	Contact	-	-	-	-
Internal grease sleeve		-	-	-	-	-	-
Digital adjustment system		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	-	-
	Cartridge	✓	✓	✓	✓	✓	-
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Axe	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	Black
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Quick release housing	Finish	Painted	Painted	Painted	Plated	Painted	Plated
	Material	Steel	Steel	Steel	Steel	Steel	Steel
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					
Rear speeds		11/10/9/8/7	12	12/11	11/10/9/8/7	11/10/9/8/7	12
O.L.D. (mm)		148	148	142	142	148	142
Spoke hole	24H	-	-	-	-	-	-
	28H	✓	✓	✓	✓	✓	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	-	✓	✓	✓
10 tooth cog compatible		-	✓	-	-	-	✓
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axe fixing method		12 mm E-THRU					
Quick release skewer length (mm)	166	-	-	-	-	-	-
	168	-	-	-	-	-	-
	170	-	-	-	-	-	-
	172	-	-	-	-	-	-
	173	-	-	-	-	-	-
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
	178	-	-	-	-	-	-
	135 x 10	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	✓	✓	-	✓
	148 x 12	✓	✓	-	-	✓	-
	150 x 12	-	-	-	-	-	-
	157 x 12	-	-	-	-	-	-
	Flange distance (mm)	61.1	61.1	55.45	55.45	61.45	55.45
Offset (mm)		7.19	7.19	7.6	7.6	7.6	7.6
P.C.D. left / right (mm)		60/61	60/61	50.5/51.5	50.5/51.5	50.5/51.5	50.5/51.5
Flange diameter left / right (mm)		68.8/69.8	68.8/69.8	59.3/60.3	59.3/60.3	59.3/60.3	59.3/60.3
Spline type	MICRO SPLINE	-	✓	-	-	-	✓
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	✓	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed, 7-speed CS-HG400/HG210)	✓	-	-	✓	✓	-
	HG spline S (7-speed)	-	-	-	-	-	-
	Engagement type	Pawl ratchet					
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
Axe	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Color	-	-	-	-	-	-
	Material	-	-	-	-	-	-
Quick release nut	Finish	-	-	-	-	-	-
	Material	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Note							

FREEHUB (Disc Brake)

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

FREEHUB (Rim Brake)

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

FREEHUB (Rim Brake)

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

Shift Switch

Series		SHIMANO
Model no.		SW-ENG605-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
Switch2	Default function	RD inward
	Multiple input	2 step
		Hold
Switch3	Default function	Shifting mode
	Multiple input	2 step
		Hold
Suspension switch		-
Battery		CR1632 x 2
LED	Shimano system status	✓
Average weight (g)		
Note		-

Rear Derailleur

Series		CUES	CUES	CUES	CUES
Model no.		RD-U8050-SGS	RD-U8050-GS	RD-U6070	RD-U6050
Color	1 2	Series color	Series color	Series color	Series color
Rear speeds	11/10	10	-	11	10
RD construction	SHIMANO SHADOW RD SHIMANO SHADOW RD+ Double servo SHADOW ES	✓ - - -	✓ - - -	✓ - - -	✓ - - -
Applicable derailleuer hanger	SHIMANO MTB type SHIMANO ROAD type	Direct attachment (conventional) Direct mount	✓ -	✓ -	✓ -
		UDH standard	✓ Single	✓ Single	✓ Single
Max. front difference	39T	32T	39T	32T	32T
Total capacity	Max. Low sprocket	50T 45T	43T 43T	50T 50T	43T 43T
Top sprocket	Max. Fluoric coated link bushings	11T 2	11T 2	11T 2	11T 2
Pulley	Guide pulley bearing Tension pulley bearing Teeth	- -	- -	- -	- -
Screws material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Bracket	Material	Steel	Steel	Steel	Steel
B-axle	Material Finish	Stainless steel Painted	Stainless steel Painted	Stainless steel Painted	Stainless steel Painted
B-axle 2	Material Finish	Aluminum Anodized	Aluminum Anodized	Stainless steel Painted	Stainless steel Painted
Bracket body	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted
P-axle	Material Finish	Steel Plated	Steel Plated	Steel Plated	Steel Plated
Plate body	Material Finish	PA+GF Plated	PA+GF Plated	PA+GF Plated	PA+GF Plated
Outer link	Material Finish	PA+GF Painted	PA+GF Painted	PA+GF Painted	PA+GF Painted
Inner link	Material Finish	Steel Painted	Steel Painted	Steel Painted	Steel Painted
Outer plate	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted
Inner plate	Material Finish	Aluminum Painted	Aluminum Painted	Aluminum Painted	Aluminum Painted
Stroke adjusting screw	Material Finish	Steel Plated	Steel Plated	Steel Plated	Steel Plated
Di2 connectivity wired	Di2 shifting	✓	✓	✓	✓
Di2 connectivity wireless	Di2 shifting	✓	✓	-	-
Bluetooth hø LE	Cycling power ANT+	- -	- -	- -	- -
Bluetoot hø LE custom (*1)	Adjust mode information Di2 battery level Gear position SHIMANO E-BIKE SYSTEM S data items (*3)	✓ ✓ ✓ -	✓ ✓ ✓ -	- - - -	- - - -
Bluetoot hø LE custom (*1)	Compatible with E-TUBE RIDE Compatible with E-TUBE PROJECT	✓ ✓	✓ ✓	- -	- -
ANT private (*2)	Adjust mode information Di2 battery level Gear position SHIMANO E-BIKE SYSTEM S data items (*3)	✓ ✓ ✓ -	✓ ✓ ✓ -	- - - -	- - - -
Firmware update by E-TUBE PROJECT	SD50 port (pcs) SD300 port (pcs) SD50 connector (pcs) SD300 connector (pcs) LED for system status	✓ 0 1* 0 0	✓ 0 1* 0 0	✓ 0 1 0 0	✓ 0 1 0 0
Power supply	Built-in battery Charging port Charging cable Average weight (g)	Wired - - -	✓ - - -	✓ - - 454	✓ - - 449

Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile. *3 Will be shown only when connected to SHIMANO E-BIKE SYSTEMS bike.

* Compatible with EW-PS300

* Compatible with EW-PS300

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		-
Axe 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
Axe	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 axe, quick release nor lock ring)		-
Note		Use EW-SD300 compatible cable

LIFESTYLE Comfort

<Mechanical
spec. >

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Shifter	257 SL
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Brake Lever	262 BL
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Crankset	266 FC
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Internal Geared Hub	270 SG
Motor Unit	271 MU

<Di2 spec. >

Internal Geared Hub

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

Internal Geared Hub

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

SG
CT
CS
SL
BL
BL
BR
RB
FC
HB
FH
FH
HP
SG
MU

Internal Geared Hub

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

Internal Geared Hub

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

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Internal Geared Hub

Series		NEXUS	NEXUS
Model no.		SG-3C41	SG-3D55
Function name		INTER-3	INTER-3
Color	1	Silver	Black
	2	-	-
	3	-	-
Brake type	Mount type	Coaster brake	CENTER LOCK disc brake
	Recommended model	-	-
Rear speeds		3	3
Gear ratio	Total	186%	186%
	1	0.733	0.733
	2	1.000	1.000
	3	1.364	1.364
	4	-	-
	5	-	-
	6	-	-
	7	-	-
	8	-	-
	9	-	-
	10	-	-
	11	-	-
Shifting structure		Low-normal	Low-normal
Silent clutch		-	✓
Gear change support mechanism		✓	✓
Shifting POWER MODULATOR		✓	✓
Driving efficiency		Standard	Standard
w/ Left hand dust cap		-	-
O.L.D. (mm)		120/127	135
Spoke size		#13/#14	#13/#14
Spoke hole	28H	✓	-
	32H	-	✓
	36H	✓	✓
	Others	-	-
A 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 (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			

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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

LIFESTYLE
Comfort

Series		ALFINE	ALFINE	ALFINE	NEXUS	NEXUS	NEXUS	
Model no.		SL-S700	SL-S7000-8	SL-S503	SL-C6001-8	SL-C6000-8	SL-7550	
Color	1	Silver	Silver	Silver	Black	Silver	Silver	
	2	Black	Black	Black	Silver	Black	Black	
	3	-	-	-	-	-	-	
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT	RAPIDFIRE PLUS	
Top-normal		✓	✓	-	-	-	-	
Front speeds		-	-	-	-	-	-	
Rear speeds		11	8	8	8	8	7	
Compatible rear derailleur/internal geared hub type	SG-S7001-11	SG-S7000-8, SG-S7001-8	SG-S501, NEXUS INTER-8	NEXUS INTER-8	NEXUS INTER-8	NEXUS INTER-8	NEXUS INTER-7	
Compatible front derailleur type	-	-	-	-	-	-	-	
Shift lever position adjust	-	-	-	-	-	-	-	
Shift lever cable adjust	✓	✓	✓	✓	✓	✓	✓	
Max. multiple shifts (main lever/rear)	2	1	1	7	7	7	1	
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	Resin	Aluminum	
	Finish	Painted	Painted	Painted	Resin/Paint(Silver)	Resin	Painted	
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)	-	-	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLIC K	-	-	-	-	-	
		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	

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Shifter

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	
Model no.		SL-C3001-7	SL-C3000-7	SL-C7000-5	SL-5550	SL-5530	SL-5530-A	
Color	1	Black	Silver	Silver	Silver	Silver	Silver	
	2	Silver	Black	Black	Black	Black	Black	
	3	-	-	-	-	White	White	
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT	
Top-normal		-	-	✓	-	-	-	
Front speeds		-	-	-	-	-	-	
Rear speeds		7	7	5	5	5	5	
Compatible rear derailleur/internal geared hub type		NEXUS INTER-7	NEXUS INTER-7	NEXUS INTER-5E	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-5	
Compatible front derailleur type		-	-	-	-	-	-	
Shift lever position adjust		-	-	-	-	-	-	
Shift lever cable adjust		✓	✓	✓	✓	✓	✓	
Max. multiple shifts (main lever/rear)		6	6	4	1	4	4	
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	Resin	Aluminum	Resin	Resin	
	Finish	Resin/Paint(Silver)	Resin	Resin	Painted	Resin	Resin	
Main lever body	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Release lever body	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Finish	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	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-3S42E	SL-C2010-3	SL-3S41E	SL-3S35E	SL-3S58	SL-3S42	
Color	1	-	Black	-	-	Silver	Silver	
	2	Black	-	Black	Black	Black	Black	
	3	-	-	-	-	White	-	
Shifter type		REVOSHIFT	RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	
Top-normal		-	-	-	-	-	-	
Front speeds		-	-	-	-	-	-	
Rear speeds		3	3	3	3	3	3	
Compatible rear derailleur/internal geared hub type	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	
Compatible front derailleur type	-	-	-	-	-	-	-	
Shift lever position adjust	-	-	-	-	-	-	-	
Shift lever cable adjust	-	✓	-	-	-	-	-	
Max. multiple shifts (main lever/rear)	2	1	2	2	2	2	2	
Release function	MULTI RELEASE	-	-	-	-	-	-	
	INSTANT RELEASE	-	-	-	-	-	-	
	2-WAY RELEASE	-	-	-	-	-	-	
OPTICAL GEAR DISPLAY	With	Window	Below handlebar	Window	Dial	Window	Window	
	With (removable)	-	-	-	-	-	-	
	Without	-	-	-	-	-	-	
Multi-bearing construction		-	-	-	-	-	-	
Shift lever bracket	Material	Resin	Aluminum	Resin	Aluminum	Resin	Resin	
	Finish	Resin	Painted	Resin	Painted	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		OT-SP40	SP outer for IHG	OT-SP40	OT-SP40	OT-SP40	OT-SP40	
Clamping diameter (mm)		22.2	22.2	22.2	22.2	22.2	22.2	
Average weight (g)		-	-	-	-	-	-	
Note								

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Shifter

Series		NEXUS	NEXUS	NEXUS	
Model no.		SL-3S43	SL-3S90	SL-3S91J	
Color	1	Silver	Gray	-	
	2	Black	Black	-	
	3	White	-	White	
Shifter type		REVOSHIFT	Piano-touch	Piano-touch	
Top-normal		-	-	-	
Front speeds		-	-	-	
Rear speeds		3	3	3	
Compatible rear derailleur/internal geared hub type		NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	
Compatible front derailleur type		-	-	-	
Shift lever position adjust		-	-	-	
Shift lever cable adjust		-	-	-	
Max. multiple shifts (main lever/rear)		2	2	2	
Release function	MULTI RELEASE	-	-	-	
	INSTANT RELEASE	-	-	-	
	2-WAY RELEASE	-	-	-	
OPTICAL GEAR DISPLAY	With	Window	Dial	Dial	
	With (removable)	-	-	-	
	Without	-	-	-	
Multi-bearing construction		-	-	-	
Shift lever bracket	Material	Resin	Steel	Steel	
	Finish	Resin	Painted	Painted	
Main lever body	Material	-	Steel+Resin	Steel+Resin	
	Finish	-	-	-	
Release lever body	Material	-	Steel+Resin	Steel+Resin	
	Finish	-	-	-	
Base cover	Material	Resin	Resin	Resin	
	Finish	-	-	-	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	
		OPTISLICK	-	-	
		SIL-TEC	-	-	
		Stainless	-	-	
		Steel	✓	✓	
Recommended shift lever outer casing		SP outer for IHG	SP outer for IHG	SP outer for IHG	
Clamping diameter (mm)		22.2	22.2	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		

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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		SM-RT64 SM-RT66
Compatible rotor size	140 mm (SS)	✓
	160 mm (S)	✓
	180 mm (M)	✓
	203 mm (L)	✓
	220 mm (LL)	-
Oil		SHIMANO mineral
ONE WAY BLEEDING		✓
Mount type		Post type
Piston		2
Piston material		Resin
Caliper	MONO-BODY	-
	Material	Aluminum
	Finish	Painted
Caliper fixing screw	Material	Steel
	Tool size	5 mm
	Anti loosen method	Snap ring
Pad mount		Split pin (stainless steel)
Average weight (g)		-
Note		

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Brake (Roller Brake)

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

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

Brake (Roller Brake)

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

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

Crankset

Series		ALFINE	NEXUS
Model no.		FC-S501	FC-C6000
Color	1	Silver	Silver
	2	Black	Black
Rear speeds		(Internal geared hub)	(Internal geared hub)
Compatible chain	Super Narrow HG for 11-speed	-	-
	Super Narrow HG for 9-speed	✓ (CN-HG93, CN-HG53)	-
	HG 8-speed (1/2 inch x 3/32 inch)	-	✓ (CN-HG71)
	1/2 inch x 1/8 inch	-	✓ (CN-NX10)
	LG	-	-
Chain line (mm)		49.2 (double chain guard), 42.7 (single chain guard)	44
P.C.D. left / right (mm)		130	-
Spider/gear arms		5	-
Chainring combination		39T, 42T, 45T	33T, 38T
Q-factor (mm)		-	-
Crank arm length (mm)	165	-	-
	167.5	-	-
	170	✓	✓
	172.5	-	-
	175	-	-
	177.5	-	-
180		-	-
Optional chain guard	With bash guard	-	-
	With chain guard	✓ (double)	-
	Without chain/bash guard	-	✓
HOLLOWTECH II		-	-
2-PIECE CRANKSET		✓	-
HOLLOWTECH crank arm		-	-
OCTALINK		-	-
HOLLOWGLIDE		-	-
Compatible bottom bracket type	Outboard	✓	-
	OCTALINK	-	-
	Square	-	✓
Recommended bottom bracket	Threaded (normal)	BB-RS501	-
	Threaded (E-type)	-	-
	Threaded (chain case)	-	BB-UN300-K
	Press-Fit	-	-
Axe 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	-	-
Axe fixing method		Nut	Nut
Axe (nut type)	Axe length 140 mm	✓ (M9)	✓ (M9)
	Axe length 145 mm	✓ (M9)	-
	Material	Steel	Steel
Seal		✓	✓
Hub shell	Material	Aluminum	Aluminum
	Finish	Clear Painted	Machined
Structure (braking power)		Hyper	Normal
Note			

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FREEHUB (Roller Brake)

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

FREEHUB (Band Brake)

Series		SHIMANO
Model no.		FH-S028
Color	Hub shell	Black
	Quick release	-
Spoke holes	28H	✓
	32H	-
	36H	✓
	Others	-
	P.C.D. (mm)	45
FREEHUB body	Speeds	Single speed
	11T compatible	-
	Roller clutch	-
	Material	Steel
O.L.D. (mm)		115/120
Flange diameter (mm)		55
Flange distance (mm)		51.5
Dish (mm)		1.8
Axe fixing method		Nut
Axe (quick release type)	Quick release skewer length	-
	Length (mm)	-
	Material	-
Axe (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

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Head Parts

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

Internal Geared Hub

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

Motor Unit

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

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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	Zinc-alloy plated	Gray	Zinc-alloy plated	Gray	Gray
Roller link plate	Gray	Gray	Brown	Gray	Gray	Brown
Roller	-	-	-	-	-	-
Chromizing treatment roller link pin	✓	✓	✓	✓	✓	✓
Hollow pin	-	-	-	-	-	-
Average weight (g) (114 links)	267	273	-	299	276	299
Note		For triple			Used only with front single	

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

QUICK-LINK

GENERAL

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

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SMCN

RT

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RTAD

OT

SMCB
SMCA

RM

DH

LP

SMAX

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

EWEC

SMPCE

SMCB
SMCA

SMCC

EWEX

EWPS

PD

PD

PD

PD

Disc Brake Rotor

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		RT-CL900	RT-CL800	RT-CL700	RT-CL300	RT-MT900	RT-MT905
CENTER LOCK		✓	✓	✓	✓	✓	-
6-bolt (P.C.D. 44 mm)		-	-	-	-	-	✓
ICE TECHNOLOGIES		✓	✓	✓	-	✓	✓
ICE TECHNOLOGIES FREEZA		✓	✓	-	-	✓	✓
ICE TECHNOLOGIES FREEZA w/ heat dissipation paint		✓	-	-	-	✓	✓
Outside diameter (mm)	220	-	-	-	-	-	-
	203	✓	✓	✓	✓	✓	✓
	180	✓	✓	✓	✓	✓	✓
	160	✓	✓	✓	✓	✓	-
	140	✓	✓	✓	-	✓	-
Adapter	Material	Aluminum	Aluminum	Aluminum	Stainless steel	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Rotor	Material	Stainless steel +Aluminum +Stainless steel	Stainless steel +Aluminum +Stainless steel	Stainless steel +Aluminum +Stainless steel	Stainless steel	Stainless steel +Aluminum +Stainless steel	Stainless steel +Aluminum +Stainless steel
	Finish	Polished	Polished	Polished	Polished	Polished	Polished
Pad material compatibility	Metal	✓	✓	✓	-	✓	✓
	Resin	✓	✓	✓	✓	✓	✓
Pad lining shape compatibility	Narrow	✓	✓	✓	✓	✓	✓
	Wide	-	-	-	✓	-	-
Lock ring	Internal type	Material	Aluminum	Aluminum	Steel	-	Aluminum
		Finish	Anodized	Anodized	Painted	-	Anodized
	External type	Material	Aluminum	Aluminum	Steel	-	Aluminum
		Finish	Anodized	Anodized	Painted	-	Anodized
	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 (except 140 mm)
		Finish	Anodized (except 140 mm)	Anodized (except 140 mm)	-	Anodized	Anodized (except 140 mm)
Average weight (g) (w/o lock ring)		97 (140 mm), 114 (160 mm), 139 (180 mm), 169 (203 mm)	97 (140 mm), 114 (160 mm), 139 (180 mm), 169 (203 mm)	106 (140 mm), 127 (160 mm), 153 (180 mm), 188 (203 mm)	-	88 (140 mm), 108 (160 mm), 132 (180 mm), 150 (203 mm)	147 (180 mm), 187 (203 mm)
Note							With anti loosen tightening plate

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		RT-MT800	SM-RT900	SM-RT800	SM-RT86	SM-RT70	SM-RT76
CENTER LOCK		✓	✓	✓	-	✓	-
6-bolt (P.C.D. 44 mm)		-	-	-	✓	-	✓
ICE TECHNOLOGIES		✓	✓	✓	✓	✓	-
ICE TECHNOLOGIES FREEZA		✓	✓	✓	-	-	-
ICE TECHNOLOGIES FREEZA w/ heat dissipation paint		-	✓	-	-	-	-
Outside diameter (mm)	220	-	-	-	-	-	-
	203	✓	-	-	✓	✓	✓
	180	✓	-	-	✓	✓	✓
	160	✓	✓	✓	✓	✓	✓
	140	✓	✓	✓	-	✓	-
Adapter	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Painted	Painted	Painted	Painted
Rotor	Material	Stainless steel +Aluminum +Stainless steel	Stainless steel +Aluminum +Stainless steel	Stainless steel +Aluminum +Stainless steel	Stainless steel +Aluminum +Stainless steel	Stainless steel +Aluminum +Stainless steel	Stainless steel
	Finish	Polished	Polished	Polished	Polished	Polished	Polished
Pad material compatibility	Metal	✓	✓	✓	✓	✓	✓
	Resin	✓	✓	✓	✓	✓	✓
Pad lining shape compatibility	Narrow	✓	✓	✓	✓	✓	✓
	Wide	-	-	-	-	-	-
Lock ring	Internal type	Material	Aluminum	Aluminum	Aluminum	-	Steel
		Finish	Anodized	Anodized	Anodized	-	Plated
	External type	Material	Aluminum	-	-	-	Steel
		Finish	Anodized	-	-	-	Plated
	Internal/external type	Material	-	-	-	-	-
		Finish	-	-	-	-	-
	Internal type with magnet for EW-SS302	Material	Aluminum (except 140 mm)	-	-	-	Aluminum (203 mm only)
		Finish	Anodized (except 140 mm)	-	-	-	Anodized (203 mm only)
Average weight (g) (w/o lock ring)		88 (140 mm), 108 (160 mm), 132 (180 mm), 164 (203 mm)	99 (140 mm), 117 (160 mm)	108 (140 mm), 128 (160 mm)	135 (160 mm), 154 (180 mm), 187 (203 mm)	121 (140 mm), 133 (160 mm), 159 (180 mm), 193 (203 mm)	141 (160 mm), 169 (180 mm), 209 (203 mm)
Note					With anti loosen tightening plate		With anti loosen tightening plate

Disc Brake Rotor

GENERAL

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-RT66	SM-RT64	SM-RT56	SM-RT54	SM-RT30	SM-RT26
CENTER LOCK	-	✓	-	✓	✓	✓	-
6-bolt (P.C.D. 44 mm)	✓	-	✓	-	-	-	✓
ICE TECHNOLOGIES	-	-	-	-	-	-	-
ICE TECHNOLOGIES FREEZA	-	-	-	-	-	-	-
ICE TECHNOLOGIES FREEZA w/ heat dissipation paint	-	-	-	-	-	-	-
Outside diameter (mm)	220	✓	✓	-	-	-	-
	203	✓	✓	-	-	✓	-
	180	✓	✓	✓	✓	✓	✓
	160	✓	✓	✓	✓	✓	✓
	140	-	✓	-	-	-	✓
Adapter	Material	-	Aluminum	-	Aluminum	Stainless steel	-
	Finish	-	Painted	-	Painted	Painted	-
Rotor	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Polished	Polished	Polished	Polished	Polished	Polished
Pad material compatibility	Metal	✓	✓	-	-	-	-
	Resin	✓	✓	✓	✓	✓	✓
Pad lining shape compatibility	Narrow	✓	✓	✓	✓	✓	✓
	Wide	-	-	✓	✓	✓	✓
Lock ring	Internal type	Material	-	Steel	-	Steel	-
		Finish	-	Plated	-	Plated	-
	External type	Material	-	Steel	-	Steel	-
		Finish	-	Plated	-	Plated	-
	Internal/external type	Material	-	-	-	Steel	-
		Finish	-	-	-	Painted	-
Internal type with magnet for EW-SS302	Material	-	Aluminum	-	-	Aluminum	-
	Finish	-	Anodized	-	-	Anodized	-
Average weight (g) (w/o lock ring)		-	-	-	-	-	-
Note		With anti loosen tightening plate		With anti loosen tightening plate			With anti loosen tightening plate

Series		SHIMANO	SHIMANO
Model no.		SM-RT10	SM-RTC60
CENTER LOCK	✓	-	-
6-bolt (P.C.D. 44 mm)	-	-	-
ICE TECHNOLOGIES	-	-	-
ICE TECHNOLOGIES FREEZA	-	-	-
ICE TECHNOLOGIES FREEZA w/ heat dissipation paint	-	-	-
Outside diameter (mm)	220	-	-
	203	-	-
	180	✓	-
	160	✓	✓
	140	-	-
Adapter	Material	Steel	Steel
	Finish	Painted	Painted
Rotor	Material	Stainless steel	Stainless steel
	Finish	Polished	Polished
Pad material compatibility	Metal	-	✓
	Resin	✓	✓
Pad lining shape compatibility	Narrow	✓	✓
	Wide	✓	-
Lock ring	Internal type	Material	-
		Finish	-
	External type	Material	-
		Finish	-
	Internal/external type	Material	Steel
		Finish	Painted
Internal type with magnet for EW-SS302	Material	-	-
	Finish	-	-
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 power	High power	High power	High power	High power	High power
Banjo	Material	-	Aluminum	Aluminum	Aluminum	Aluminum	-
	Length	-	Standard	Long	Standard	Standard	-
	Banjo screw length	-	Long	Short	Long, BR-M9120 spec.* BR-M8100 spec. *		Short
	Banjo screw material	-	Steel	Steel	Steel	Steel	-
Flare nut	Material	Steel	Steel	Steel	Steel	Steel	Steel
Note					* Banjo screw is not included.		

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

Disc Brake Rotor Adapter

GENERAL

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

CN

SMCN

RT

BH

RTAD

OT

SMCB

SMCA

RM

DH

LP

SMAX

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

EWEC

SMPCE

SMCB

SMCA

SMCC

EWEX

EWPS

PD

PD

PD

PD

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*	Standard	Standard
Mount type		Lead pipe	Outer casing	Outer casing	Lead pipe
Available lead pipe angle	90 deg.	✓	-	-	✓
	135 deg.	✓	-	-	✓
Compatible brake	V-BRAKE	✓**	✓**	-	✓**
	Mechanical disc brake (MTB)	-	-	✓**	-
	Mechanical disc brake (Road)	-	-	-	-
	Caliper (NEW SUPER SLR)	-	-	-	-
	Caliper (SUPER SLR)	-	-	-	-
	Cantilever brake	-	-	-	-
	Roller brake	-	-	-	-
Compatible brake lever	V-BRAKE 4-finger	✓***	✓***	✓***	✓***
	V-BRAKE 3-finger	✓***	✓***	✓***	✓***
	V-BRAKE 2-finger	✓	✓	✓	✓
	Road	-	-	-	-
Body	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized+Laser marking	Barrel and Sticker	Barrel and Printed	Barrel and Sticker
Lead pipe	Material	Stainless steel	-	-	Stainless steel
Note		** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	* City use for Japan market ** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake

Hub Dynamo

GENERAL

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

Hub Dynamo

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

Hub Dynamo

GENERAL

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

Hub Dynamo

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

Hub Dynamo

GENERAL

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

CN
SMCN
RT
BH
RTAD
OT
SMCB
SMCA
RM
DH
LP
SMAX
EW
EWC
GM
WU
JC
BT
BM
SMBT
SMBC
BCC
EWEC
SMPCE
SMCB
SMCA
SMCC
EWEX
EWPS
PD
PD
PD
PD

Light

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

Light

GENERAL

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

E-THRУ Axle (AX)

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

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

E-THRU Axle (AX)

GENERAL

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

CN

SMCN

RT

BH

RTAD

OT

SMCB
SMCA

RM

DH

LP

SMAX

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

EWEC

SMPCE

SMCB
SMCA

SMCC

EWEX

EWPS

PD

PD

PD

PD

Electric Wire

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

Cord Cover

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

Grommet

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

Wireless Unit

GENERAL

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

Junction [A]

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

CN

SMCN

RT

BH

RTAD

OT

SMCB

SMCA

RM

DH

LP

SMAX

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

EWEC

SMPCE

SMCB

SMCA

SMCC

EWEX

EWPS

PD

PD

PD

PD

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 Case

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

Battery Charger

Series	SHIMANO	SHIMANO
Model no.	EC-DN100	SM-BCR2
Compatible battery	BT-DN320	BT-DN110, BT-DN110-A
Charging cord	included	Including SM-BCR2
Note		PC linkage device with limited function

Charger Cord

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

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

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

Charging Cable

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

PC Linkage Device

GENERAL

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
	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
	2	-
Note		

CAN Adapter

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

Electric Cable for Non SHIMANO E-BIKE SYSTEMS

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

Pedal (SPD)

GENERAL

Series		XTR	XTR	XTR	XTR	DEORE XT	GRX
Model no.		PD-M9200	PD-M9220	PD-M9100	PD-M9120	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-PD22 (3 mm, shorter axle type)	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	15.1	15.4	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)	316 (/pair) (Short axle type) 318 (/pair) (Normal axle type)	398 (/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	3 mm shorter axle available 1.0 mm cleat spacer included	1.0 mm cleat spacer included	1.0 mm cleat spacer included	United in Gravel limited edition, 1.0 mm cleat spacer included

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Pedal (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

Pedal (SPD)

GENERAL

Series		SHIMANO	SHIMANO	SHIMANO	DEORE XT	SHIMANO	SHIMANO
Model no.		PD-M647	PD-M324	PD-ME700	PD-T8000	PD-ES600	PD-EH510
Color	1	Black	Silver	Black	Black	Dark gray	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Type		SPD	SPD/FlatPedal	SPD	SPD/FlatPedal	SPD	SPD/FlatPedal
Binding		Dual sided	Single 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		SM-PD60	Y41B98010	SM-PD60	Integrated	SM-PD62	SM-PD70B
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Resin
	Finish	Painted	Painted	Painted	Anodized	Painted	-
Cage	Material	Resin	Steel	-	-	-	-
Stack height (mm)		-	18	16.7	17.0	17.2	16.4
Pedal center (mm)		-	55	55	55	55	61
Average weight (g)		568 (/pair)	533 (/pair)	485 (/pair)	433 (/pair)	279 (/pair)	498 (/pair)
Note				1.0 mm cleat spacer included		1.0 mm cleat spacer included	

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Pedal (SPD)

Series		SHIMANO	SHIMANO
Model no.		PD-EH500	PD-ED500
Color	1	Dark gray	Dark gray
	2	-	-
	3	-	-
Type		SPD/FlatPedal	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

Pedal (CLICK'R)

Series		SHIMANO
Model no.		PD-T421
Color	1	Black
	2	-
	3	-
Type		SPD
Binding		Single sided
Pedal axle material		Chromoly steel
Cartridge axle		✓
Sealed mechanism		✓
Cleat retention adjuster		✓
Pop-up cage		✓
Integrated cage		-
Offset binding		-
Oval shape axle body housing		-
Cleat included	SM-SH51	-
	SM-SH56	✓
	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		

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Pedal (Flat Pedal)

Series		SAINT	DEORE XT	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		PD-M828	PD-M8140	PD-GR500	PD-GR400	PD-EF202	PD-EF205
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	Silver	Blue	Silver	Silver
	3	-	-	-	Red	Red	Red
	4	-	-	-	Orange	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-PD64A	SM-PD67	SM-PD64A	SM-PD70	SM-PD69	SM-PD69
Pedal body	Material	Aluminum	Aluminum	Aluminum	Resin	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	-	Painted	Painted
Cage	Material	-	-	-	-	-	-
Wide platform		-	-	-	-	-	-
Stack height (mm)		8.2	9.1	9.4	8	10.8	10.8
Average weight (g)		553 (/pair) 461 (/pair) (SM) 505 (/pair) (ML)	533 (/pair)	395 (/pair)	512 (/pair)	612 (/pair)	
Note		12 pins per platform <small>2 platform size available (SM/ML)</small>	10 pins per platform <small>2 platform size available (SM/ML)</small>	9 pins per platform	9 pins per platform		

Pedal (Flat Pedal)

GENERAL

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		

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Pedal (SPD-SL)

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



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Drive Unit Cover	313		SMDU
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Cycle Computer

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

Cycle Computer

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

Switch Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SW-EM800-L	SW-EN600-L	SW-EN600-R	SW-E8000-L	SW-E7000-L	SW-E7000-R
Switch type		-	-	-	FIREBOLT	-	-
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Battery management system		First generation/ Second generation	Second generation	Second generation	First generation	First generation	First generation
Usage		For assist	For assist	For SEIS shift	For assist	For assist	For SEIS shift
Right SW		-	-	✓	-	-	✓
Left SW		✓	✓	-	✓	✓	-
Button numbers (pcs)		2	5	3	2	2	2
Master unit		-	-	-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
SD50 port (pcs)		0	0	0	1	0	0
SD300 port (pcs)		1	1	1	0	0	0
SD50 connector (pcs)		0	0	0	0	1	1
SD300 connector (pcs)		0	0	0	0	0	0
System On-Off		-	✓	-	-	-	-
Assist mode change		✓	✓	-	✓	✓	-
Display change		-	✓	-	-	-	-
Automatic/manual change		-	-	✓	-	-	✓
Light On-Off		-	✓	-	-	-	-
Multiple input	2 step	-	-	-	-	-	-
	Hold	* ✓	-	** ✓	✓	✓	✓
LED	Battery level	-	✓	-	-	-	-
	Assist status	-	✓	-	-	-	-
Wireless function	Bluetooth h@LE custom (*1)	Dij2 data items	-	✓	-	-	-
		SHIMAN O E-BIKE SYSTEM S data items	-	✓	-	-	-
	ANT private (*2)	Dij2 data items	-	✓	-	-	-
		SHIMAN O E-BIKE SYSTEM S data items	-	✓	-	-	-
Average weight (g)		24.5	24	22	93.2	** 23.9	** 23.9
Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile.		* Set by E-TUBE PROJECT		** Available for rear derailleur		* Available for rear derailleur ** Cable length 700 mm spec. Cable length: 400 mm, 300 mm, 700 mm	

Switch Unit

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		SW-E6010-L	SW-E6010-R	SW-E6000
Switch type		-	-	-
Color	1	Black	Black	Black
	2	-	-	-
	3	-	-	-
Battery management system		First generation	First generation	First generation
Usage		For assist	For SEIS shift	* For assist or SEIS shift
Right SW		-	✓	✓
Left SW		✓	-	✓
Button numbers (pcs)		3	3	3
Master unit		-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓
SD50 port (pcs)		0	0	0
SD300 port (pcs)		0	0	0
SD50 connector (pcs)		1	1	1
SD300 connector (pcs)		0	0	0
System On-Off		-	-	-
Assist mode change		✓	-	✓
Display change		✓	✓	* ✓
Automatic/manual change		✓	✓	* ✓
Light On-Off		*-	-	* ✓
Multiple input	2 step	-	-	-
	Hold	-	** ✓	-
LED	Battery level	-	-	-
	Assist status	-	-	-
Wireless function	Bluetooth h@LE custom (*1)	Dij2 data items	-	-
		SHIMANO E-BIKE SYSTEM S data items	-	-
	ANT private (*2)	Dij2 data items	-	-
		SHIMANO E-BIKE SYSTEM S data items	-	-
Average weight (g)		31.3	31.3	25.5
Note *1 Compatible with a Bluetooth LE cycle computer and smartphone/tablet but not freely open profile. *2 Compatible with ANT+ cycle computer but not freely open profile.		* By Setting Menu	** Available for rear derailleur	* Set by E-TUBE PROJECT

SC

SW

DU

SMDU

SMDU

RT

FC

SMCR

SMCD

BT

BM

EWSW

EWCP

EC

SMBTE

SMDU

EWCA

BSAU

BSAS

BSAP

BSSS

SMPCE

BSEW

Drive Unit

Series	EP8	EP8	EP8	EP8	EP6	EP6	
Model no.	DU-EP801	DU-EP801-CRG	DU-EP800	DU-EP800-CRG	DU-EP600	DU-EP600-CRG	
Color	1 2 3 UL2849	Black - - ✓	Black - - ✓	Black - - -	Black - - -	Black - - ✓	
Battery management system	Second generation	Second generation	First generation	First generation	Second generation	Second 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	Midship	Midship	Midship	Midship	Midship	Midship	
Compatible wheel size (mm)	*1300-3000	*1300-3000	**1300-3000	**1300-3000	*1300-3000	*1300-3000	
Continuous rated power (Watt)	250	250	250	250	250	250	
Maximum torque (Nm)	85	85	85	85	85	85	
Maximum assist support(%)	400	400	400	400	400	400	
Rated voltage	36 V DC	36 V DC	36 V DC	36 V DC	36 V DC	36 V DC	
Di2 compatible	Internal geared hub Rear derailleur	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	
Maximum support bike speed	24 km/h 25 km/h 20 mph 28 mph Other	- *✓ *✓ *✓ *****✓	- *✓ *✓ *✓ *****✓	- **✓ **✓ **✓ -	- *✓ *✓ *✓ *****✓	- *✓ *✓ *✓ *****✓	
Riding characteristics	Adjustment Dynamic Explorer Customize Sportive/Light off-road Comfort Basic mode Finetune mode	- - - - - - ✓ ✓	- - - - - - ✓ ✓	- - - - - - ✓ ✓	- - - - - - ✓ ✓	- - - - - - ✓ ✓	
Assist customize	Number of profile BOOST HIGH TRAIL NORMAL ECO	2 ✓ ✓ ✓ ✓ ✓	2 ✓ ✓ ✓ ✓ ✓	2 ✓ - ✓ - ✓	2 ✓ ✓ ✓ ✓ ✓	2 ✓ ✓ ✓ ✓ ✓	
Assist mode	Power supply for front light Power supply for rear light	DC 13.5V DC 13.5V					
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	DC 13.5 V / 2.0 A	DC 13.5 V / 2.0 A	-	-	DC 13.5 V / 2.0 A	DC 13.5 V / 2.0 A	
Power supply and maximum current for CAN port	DC 13.5V / 2.0 A	DC 13.5V / 2.0 A	-	-	DC 13.5V / 2.0 A	DC 13.5V / 2.0 A	
Safe way home function	Communication Master unit	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	
Firmware update by E-TUBE PROJECT	SD50 port (pcs) SD300 port (pcs) SD50 connector (pcs) SD300 connector (pcs) Terminal for light (pcs)	0 3 0 0 1	0 3 0 0 1	0 2 0 0 1	0 2 0 0 1	0 3 0 0 1	
Port for electric devices (pcs)	***2	***2	0	0	***2	***2	
Port for Speed Sensor (pcs)	SD50 type SD300 type	0 1	0 1	0 1	0 1	0 1	
Chain case compatible	✓	✓	-	-	✓	✓	
Chain device compatible	✓	✓	✓	✓	✓	✓	
Torque sensor	✓	✓	✓	✓	✓	✓	
Crank arm position sensor	✓	✓	✓	✓	✓	✓	
Bike speed sensor	****✓	****✓	***✓	***✓	****✓	****✓	
Cadence sensor	✓	✓	✓	✓	✓	✓	
Walk assist function	On/Off Standard Intelligent Quick	*✓ *****✓ ✓	*✓ *****✓ ✓	**✓ *✓ ✓	**✓ *✓ ✓	*✓ *****✓ ✓	
Automatic shift	Internal geared hub 11-speed Internal geared hub 8-speed Internal geared hub 5-speed Internal geared hub 5-speed (INTER-SE) Rear derailleur	- *****✓ - *****✓ *****✓	- ✓ - ✓ ✓	* ✓ * ✓ - * ✓ -	* ✓ * ✓ - * ✓ -	- *****✓ - *****✓ -	
SYMPHOMATIC	Internal geared hub Rear derailleur	✓ ✓	✓ ✓	* ✓ - -	* ✓ - -	✓ ✓	
FREE SHIFT	Electronic shift by drive unit control	✓	✓	-	-	✓	
Compatible spindle type	24mm narrow	24mm narrow	24mm narrow	24mm narrow	24mm narrow	24mm narrow	
Drive unit fixing screw (pcs)	6	6	6	6	6	6	
Average weight (kg)	2.7	2.7	2.7	2.7	3.0	3.0	
Note	<p>*Set by E-TUBE PROJECT **Can be selected by E-TUBE PROJECT ***Can be selected by E-TUBE PROJECT Factory/ Boost/Trail/Eco or High/Normal/Eco ****CAN translation:1 AUX:1 *****In combination with EW-SS300/ SS301/SS302 *****In case of Di2 *****US Class 3 (comply with California) only</p> <p>For CARGO bike *Set by E-TUBE PROJECT **Set by E-TUBE PROJECT ***Set by E-TUBE PROJECT ****Set by E-TUBE PROJECT *****Set by E-TUBE PROJECT *****In combination with EW-SS300/ SS301/SS302 *****In case of Di2 *****US Class 3 (comply with California) only</p> <p>* In case of Di2 ** Set by E-TUBE PROJECT *** By using EW-SS300/EW-SS301 **** In case of Di2 *****In combination with EW-SS300/ SS301/SS302 *****In case of Di2 *****US Class 3 (comply with California) only</p> <p>* Set by E-TUBE PROJECT **Can be selected by E-TUBE PROJECT Factory/ Boost/Trail/Eco or High/Normal/Eco ***CAN translation:1 AUX:1 ****In combination with EW-SS300/ SS301/SS302 *****In case of Di2 *****US Class 3 (comply with California) only</p>						

Drive Unit

Series	EP5	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.	DU-EP500	DU-E8000	DU-E8080	DU-E7000	DU-E6100	DU-E6100-CRG	
Color	1 Black	Black	Black	Black	Black	Black	
	2 -	-	-	-	-	-	
	3 -	-	-	-	-	-	
UL2849	-	-	-	-	-	-	
Battery management system	Second generation	First generation	First generation	First generation	First generation	First generation	
Compatible brake type	V-BRAKE, Roller brake, Disc brake, Coaster brake	Disc brake/V-BRAKE	Disc brake	Disc brake/V-BRAKE	V-BRAKE, Roller brake, Disc brake	Disc brake	
Motor type	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	
Position	Midship	Midship	Midship	Midship	Midship	Midship	
Compatible wheel size (mm)	1300-3000	*1300-3000	*1300-3000	*1300-3000	*1300-3000	**1300-3000	
Continuous rated power (Watt)	250	250	250	250	250	250	
Maximum torque (Nm)	60	70	70	60	60	60	
Maximum assist support(%)	400	-	-	-	-	-	
Rated voltage	36 V DC	36 V DC	36 V DC	36 V DC	36 V DC	36 V DC	
Di2 compatible	Internal geared hub Rear derailleur	✓ ✓	- *✓	- *✓	✓ ✓	✓ ✓	
Maximum support bike speed	24 km/h	-	-	*✓	*✓	-	
	25 km/h	✓	*✓	-	*✓	**✓	
	20 mph	✓	*✓	-	*✓	**✓	
	28 mph	*****✓	-	-	-	-	
	Other	-	-	-	-	-	
Adjustment	-	-	-	*✓	*✓	**✓	
Riding characteristics	Dynamic	-	*✓	-	*✓	-	
	Explorer	-	*✓	-	*✓	-	
	Customize	-	*✓	-	*✓	-	
	Sportive/Light off-road	-	-	-	*✓	**✓	
	Comfort	-	-	✓	*✓	**✓	
Assist customize	Basic mode	✓	-	-	-	-	
	Finetune mode	✓	-	-	-	-	
Number of profile	2	1	1	1	1	1	
Assist mode	BOOST	✓	✓	-	✓	-	
	HIGH	✓	-	✓	-	✓	
	TRAIL	✓	✓	-	✓	-	
	NORMAL	✓	-	✓	-	✓	
	ECO	✓	✓	✓	✓	✓	
Power supply for front light	DC 13.5V	6 V DC	6 V DC	DC 13.5V	DC 13.5V	DC 13.5V	
Power supply for rear light	DC 13.5V	6 V DC	6 V DC	DC 13.5V	DC 13.5V	DC 13.5V	
Maximum current supply front and rear light total (A)	2.0	2.0	2.0	2.0	2.0	2.0	
Power supply and maximum current for ACC	-	-	-	-	-	-	
Power supply and maximum current for CAN port	-	-	-	-	-	-	
Safe way home function	-	-	-	-	-	-	
Communication	E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE	
Master unit	✓	✓	✓	✓	✓	✓	
Firmware update by E-TUBE PROJECT	✓	✓	✓	✓	✓	✓	
SD50 port (pcs)	0	2	2	2	2	2	
SD300 port (pcs)	2	0	0	0	0	0	
SD50 connector (pcs)	0	0	0	0	0	0	
SD300 connector (pcs)	0	0	0	0	0	0	
Terminal for light (pcs)	1	1	1	1	1	1	
Port for electric devices (pcs)	0	0	0	0	0	0	
Port for Speed Sensor (pcs)	SD50 type SD300 type	0 1	1 0	1 0	1 0	1 0	
Chain case compatible	✓	-	-	-	✓	✓	
Chain device compatible	✓	✓	✓	✓	-	-	
Torque sensor	✓	✓	✓	✓	✓	✓	
Crank arm position sensor	✓	✓	✓	✓	✓	✓	
Bike speed sensor	****✓	**✓	**✓	**✓	**✓	***✓	
Cadence sensor	✓	✓	✓	✓	✓	✓	
Walk assist function	On/Off	*✓	✓	-	*✓	*✓	
	Standard	-	✓	-	-	-	
	Intelligent	*****✓	***✓	-	**✓	***✓	
Automatic shift	Quick	✓	✓	-	✓	✓	
	Internal geared hub 11-speed	-	-	-	-	-	
	Internal geared hub 8-speed	*****✓	-	-	-	-	
	Internal geared hub 7-speed	-	-	-	-	-	
	Internal geared hub 5-speed (INTER-SE)	*****✓	-	-	-	-	
SYMPHOMATIC	Rear derailleur	*****✓	-	-	-	-	
	Internal geared hub	✓	-	-	-	-	
	Rear derailleur	✓	-	-	-	-	
FREE SHIFT	Electronic shift by drive unit control	-	-	-	-	-	
	Compatible spindle type	24mm narrow 6	24mm	24mm	24mm	24mm	
	Drive unit fixing screw (pcs)	3.0	2.9	2.9	2.8	2.8	
Note	Average weight (kg)	-	-	-	-	-	
	* Set by E-TUBE PROJECT	* Set by E-TUBE PROJECT		* Set by E-TUBE PROJECT		* Set by E-TUBE PROJECT	
	** Can be selected by E-TUBE PROJECT	** By using SM-DUE10/SM-DUE11		** By using SM-DUE10/SM-DUE11		** By using SM-DUE10/SM-DUE11	
	**** In combination with EWSS300/SS301/SS302	*** By using RD-M9050/RD-M8050		*** By using RD-M9050/RD-M8050		*** Only in combination with Di2	
	***** In case of Di2 Class3(comply with California)only	**** Only in combination with Di2		**** Only in combination with Di2		* In case of Di2 ** Set by E-TUBE PROJECT *** By using SM-DUE10/SM-DUE11 **** By using RD-M9050/RD-M8050	

Drive Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-E6110	DU-E6180	DU-E5100	DU-E5000	DU-E5080	DU-E5080-H
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
UL2849							
Battery management system		First generation	First generation	First generation	First generation	First generation	First generation
Compatible brake type		Coaster brake	V-BRAKE, Roller brake, Disc brake	V-BRAKE, Roller brake, Disc brake, Coaster brake	V-BRAKE, Roller brake, Disc brake, Coaster brake	V-BRAKE, Roller brake, Disc brake, Coaster brake	V-BRAKE, Roller brake, Disc brake, Coaster brake
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position		Midship	Midship	Midship	Midship	Midship	Midship
Compatible wheel size (mm)		*1300-3000	*1300-3000	1300-3000	*1300-3000	*1300-3000	*1300-3000
Continuous rated power (Watt)		250	250	250	250	250	250
Maximum torque (Nm)		60	60	50	40	40	40
Maximum assist support(%)		-	-	300	-	-	-
Rated voltage		36 V DC	36 V DC	36 V DC	36 V DC	36 V DC	36 V DC
Di2 compatible	Internal geared hub	✓	✓	✓	✓	✓	✓
	Rear derailleur	-	✓	✓	✓	✓	✓
Maximum support bike speed	24 km/h	-	✓	-	-	✓	✓
	25 km/h	*✓	-	✓	*✓	-	-
	20 mph	*✓	-	✓	*✓	-	-
	28 mph	-	-	-	-	-	-
	Other	-	-	-	-	-	-
Adjustment		*✓	*✓	-	*✓	*✓	*✓
Riding characteristics	Dynamic	-	-	-	-	-	-
	Explorer	-	-	-	-	-	-
	Customize	-	-	-	-	-	-
	Sportive/Light off-road	*✓	*✓	✓	*✓	-	✓
	Comfort	*✓	*✓	✓	✓	✓	-
Assist customize	Basic mode	-	-	-	-	-	-
	Fine tune mode	-	-	-	-	-	-
	Number of profile	1	1	1	1	1	1
Assist mode	BOOST	-	-	-	-	-	-
	HIGH	✓	✓	✓	✓	✓	✓
	TRAIL	-	-	-	-	-	-
	NORMAL	✓	✓	✓	✓	✓	✓
	ECO	✓	✓	✓	✓	✓	✓
Power supply for front light		DC 13.5V	DC 13.5V	DC 13.5V	DC 13.5V	DC 13.5V	DC 13.5V
Power supply for rear light		DC 13.5V	DC 13.5V	DC 13.5V	DC 13.5V	DC 13.5V	DC 13.5V
Maximum current supply front and rear light total (A)		2.0	2.0	2.0	2.0	2.0	2.0
Power supply and maximum current for ACC		-	-	-	-	-	-
Power supply and maximum current for CAN port		-	-	-	-	-	-
Safe way home function		✓	✓	✓	✓	✓	✓
Communication		E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE
Master unit		✓	✓	✓	✓	✓	✓
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
SD50 port (pcs)		2	2	1	1	1	1
SD300 port (pcs)		0	0	0	0	0	0
SD50 connector (pcs)		0	0	0	0	0	0
SD300 connector (pcs)		0	0	0	0	0	0
Terminal for light (pcs)		1	1	1	1	1	1
Port for electric devices (pcs)		0	0	0	0	0	0
Port for Speed Sensor (pcs)	SD50 type	1	1	1	1	1	1
	SD300 type	0	0	-	0	0	0
Chain case compatible		✓	✓	✓	✓	✓	✓
Chain device compatible		-	-	-	-	-	-
Torque sensor		✓	✓	✓	✓	✓	✓
Crank arm position sensor		✓	✓	-	-	-	-
Bike speed sensor		**✓	**✓	**✓	**✓	**✓	**✓
Cadence sensor		✓	✓	-	-	-	-
Walk assist function	On/Off	*✓	-	*✓	*✓	-	-
	Standard	-	-	-	-	-	-
	Intelligent	***✓	-	***✓	***✓	-	-
	Quick	✓	-	✓	-	-	-
Automatic shift	Internal geared hub 11-speed	-	-	-	-	-	-
	Internal geared hub 8-speed	✓	✓	***✓	✓	✓	✓
	Internal geared hub 7-speed	-	-	-	-	-	-
	Internal geared hub 5-speed (INTER-SE)	✓	✓	***✓	✓	✓	✓
	Rear derailleur	-	-	-	-	-	-
SYMPHOMATIC	Internal geared hub	✓	✓	✓	✓	✓	✓
	Rear derailleur	-	-	-	-	-	-
FREE SHIFT		-	-	-	-	-	-
Electronic shift by drive unit control		24mm	24mm	Square 6	Square	Square	Square
Compatible spindle type		-	-	-	-	-	-
Drive unit fixing screw (pcs)		-	-	-	-	-	-
Average weight (kg)		2.7	2.9	2.4	2.4	2.4	2.4
Note		* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** Only in combination with Di2		* Set by E-TUBE PROJECT ** In combination with SM-DUE10/SM-DUE11 *** By using SM-DUE10/SM-DUE11		* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** Only in combination with Di2	
		* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** Only in combination with Di2		* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** Only in combination with Di2		* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** Only in combination with Di2	

Drive Unit Cover

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

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-DUE80-A	SM-DUE80-B	SM-DUE70-A	SM-DUE70-B	SM-DUE70-C	SM-DUE61-T
Color	1	Gray	Gray	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
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-DUE61-TCRG	SM-DUE61-TC	SM-DUE61-C	SM-DUE61-CCRG	SM-DUE61-CC	SM-DUE60
Color	1	Black	Black	Black	Black	Black	Gray
	2	-	-	-	-	-	Black
	3	-	-	-	-	-	-
UL2849		-	-	-	-	-	-
Cover	Right	✓	✓	✓	✓	✓	✓
	Left	✓	✓	✓	✓	✓	-
	Bottom	-	-	-	-	-	-
	Front	-	-	-	-	-	-
	Connector	-	-	-	-	-	-
Available drive unit angle (deg.)		0-60	0-60	0-60	0-60	0-60	0
Note		CARGO logo for DU-E6100-CRG	-	-	CARGO logo for DU-E6100-CRG	-	-

Drive Unit Cover

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

Series		SHIMANO
Model no.		SM-DUE50-CC
Color	1	Black
	2	-
	3	-
UL2849		-
Cover	Right	-
	Left	✓
	Bottom	-
	Front	-
	Connector	-
Available drive unit angle (deg.)		0-60
Note		-

Speed Sensor Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EW-SS302	EW-SS301	EW-SS300	SM-DUE11	SM-DUE10
Brake spec	Disc	✓	✓	✓	✓	✓
	Rim	-	-	✓	-	✓
Color	1	Black	Black	Black	Black	Black
	2	-	-	-	-	-
	3	-	-	-	-	-
Battery management system		Second generation	Second generation	Second generation	First generation	First generation
Magnet type	Spoke fixing type	-	-	✓	-	✓
	Magnet integrated rotor	-	✓	-	✓	-
	Magnet integrated lock ring	✓	-	-	-	-
	Magnet 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

Disc Brake Rotor

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

Crank Arm

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

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

Chainring

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

SC

SW

DU

SMDU

SMDU

RT

FC

SMCR

SMCD

BT

BM

EWSW

EWCP

EC

SMBTE

SMDU

EWCA

BSAU

BSAS

BSAP

BSSS

SMPCE

BSEW

Chainring

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

Chainring

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

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Chain Device

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

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-EN817-B	BT-EN805-A	BT-EN805-L-A	BT-EN806-A	BT-EN604-A	BT-EN605-A
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		✓	✓	✓	✓	✓	✓
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	Integrated	Down tube/Seat tube	Down tube/Seat tube
Nominal voltage (V)		36.3	36	36	36	36	36
Capacity (Ah)		19.6	14	14	17.5	11.6	14
Rated capacity (Ah)		19.6	13	13	16.2	10.9	13
Energy Content (Wh)		712	504	504	630	418	504
Rated capacity (Wh)		712	468	468	583	393	468
Cyclife span for charge (times)		1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
Time to charge (hour)	SOC = 100%	* 5.2	* 4 (** 4.5)	* 4 (** 4.5)	* 4.8 (** 5.7)	* 3.0 (** 3.5)	* 4 (** 4.5)
	SOC = 80%	* 3.4	* 2.5 (** 3.2)	* 2.5 (** 3.2)	* 3.2 (** 4)	* 2.0 (** 2.5)	* 2.5 (** 3.2)
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		** -	*** -	*** -	*** -	✓	✓
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-EN810-A	BM-EN800-A BM-EN800-B BM-EN801-A BM-EN801-B	BM-EN800-A BM-EN800-B BM-EN801-A BM-EN801-B	BM-EN800-A BM-EN800-B BM-EN801-A BM-EN801-B	BM-EN600	BM-EN600
Compatible charger		EC-EN814	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004
Compatible adaptor for charge		SM-BTE81	SM-BTE80	SM-BTE80	SM-BTE80	-	-
Average weight (kg)		4.2	3.0	3.1	3.6	2.6	2.7
Note		* By EC-EN814 ** with SM-BTE81 and EW-CP110 or EW-CP111	* By EC-E8004 (** In case of 100 V AC) *** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC) *** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC) *** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)

SC

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BT

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SMBTE

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Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-EN606-A	BT-EN404-A	BT-EN405-A	BT-E8010-A	BT-E8014-A	BT-E8016-A
Color	1	Black	Black	Black	Black	Black	Black
	2	-	Gray	Gray	-	-	-
	3	-	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		✓	✓	✓	✓	✓	✓
UL2271		✓	-	-	-	-	-
Battery management system		Second generation	Second generation	Second generation	First generation	First generation	First generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Down tube/Seat tube	Rear carrier	Rear carrier	Down tube/Seat tube	Down tube/Seat tube	Down tube/Seat tube
Nominal voltage (V)		36	36	36	36	36	36
Capacity (Ah)		17.5	11.6	14	* 14	* 11.6	* 17.5
Rated capacity (Ah)		16.2	10.9	13	13	10.9	16.2
Energy Content (Wh)		630	418	504	* 504	* 418	* 630
Rated capacity (Wh)		583	393	468	468	393	583
Cyclife span for charge (times)		1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)			
Time to charge (hour)	SOC = 100%	* 4.8 (** 5.7)	* 3.0 (** 3.5)	* 4 (** 4.5)	** 4 (** 4.5)	** 3.0 (** 3.5)	** 4.8 (** 5.7)
	SOC = 80%	* 3.2 (** 4)	* 2.0 (** 2.5)	* 2.5 (** 3.2)	** 2.5 (** 3.2)	** 2.0 (** 2.5)	** 3.2 (** 4)
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		✓	-	-	✓	✓	✓
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-EN600	BM-EN400	BM-EN400	BM-E8016	BM-E8016	BM-E8016
Compatible charger		EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004
Compatible adaptor for charge		-	SM-BTE60	SM-BTE60	-	-	-
Average weight (kg)		3.3	2.7	2.8	2.7	2.6	3.3
Note		* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)	* BT-E8010-A for Japan (13 Ah, 468 Wh)	* BT-E8014-A for Japan (10.9 Ah, 393 Wh)	* BT-E8016-A for Japan (16.2 Ah, 583 Wh)
					** By EC-E8004 (** In case of 100 V AC)	** By EC-E8004 (** In case of 100 V AC)	** By EC-E8004 (** In case of 100 V AC)

Battery

E-BIKE

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-E8035-A	BT-E8035-L-A	BT-E8036-A	BT-E6000-A	BT-E6001-A	BT-EN805
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	Gray	Gray	-
	3	-	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		✓	✓	✓	✓	✓	-
UL2271		-	-	-	-	-	-
Battery management system		First generation	First generation	First generation	First generation	First generation	Second generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Integrated	Integrated	Integrated	Rear carrier	Rear carrier	Integrated
Nominal voltage (V)		36	36	36	36	36	36
Capacity (Ah)		* 14	* 14	* 17.5	11.6	14	14
Rated capacity (Ah)		13	13	16.2	11.6	13	13
Energy Content (Wh)		* 504	* 504	* 630	418	504	504
Rated capacity (Wh)		468	468	583	418	468	468
Cyclife span for charge (times)		1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
Time to charge (hour)	SOC = 100%	** 4 (** 4.5)	** 4 (** 4.5)	** 4.8 (** 5.7)	* 3.0 (** 3.5)	* 4 (** 4.5)	* 4 (** 4.5)
	SOC = 80%	** 2.5 (** 3.2)	** 2.5 (** 3.2)	** 3.2 (** 4)	* 2.0 (** 2.5)	* 2.5 (** 3.2)	* 2.5 (** 3.2)
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		***** -	***** -	***** -	-	-	*** -
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BM-E6000	BM-E6000	BM-EN800-A BM-EN800-B BM-EN801-A BM-EN801-B
Compatible charger		EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004
Compatible adaptor for charge		SM-BTE80	SM-BTE80	SM-BTE80	SM-BTE60	SM-BTE60	SM-BTE80
Average weight (kg)		3.0	3.1	3.6	2.7	2.8	2.9
Note		* BT-E8035-A for Japan (13 Ah, 468 Wh) ** By EC-E8004 (** In case of 100 V AC) **** with SM-BTE80 or EW-CP100	* BT-E8035-L-A for Japan (13 Ah, 468 Wh) ** By EC-E8004 (** In case of 100 V AC) **** with SM-BTE80 or EW-CP100	* BT-E8036-A for Japan (16.2 Ah, 583 Wh) ** By EC-E8004 (** In case of 100 V AC) **** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC) **** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC) **** with SM-BTE80 or EW-CP100

SC

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Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-EN805-L	BT-EN806	BT-EN604	BT-EN605	BT-EN606	BT-EN404
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	Gray
	3	-	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		-	-	-	-	-	-
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	Down tube/Seat tube	Down tube/Seat tube	Down tube/Seat tube	Rear carrier
Nominal voltage (V)		36	36	36	36	36	36
Capacity (Ah)		14	17.5	11.6	14	17.5	11.6
Rated capacity (Ah)		13	16.2	10.9	13	16.2	10.9
Energy Content (Wh)		504	630	418	504	630	418
Rated capacity (Wh)		468	583	393	468	583	393
Cyclife span for charge (times)		1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
Time to charge (hour)	SOC = 100%	* 4 (** 4.5)	* 4.8 (** 5.7)	* 3.0 (** 3.5)	* 4 (** 4.5)	* 4.8 (** 5.7)	* 3.0 (** 3.5)
	SOC = 80%	* 2.5 (** 3.2)	* 3.2 (** 4)	* 2.0 (** 2.5)	* 2.5 (** 3.2)	* 3.2 (** 4)	* 2.0 (** 2.5)
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		*** -	*** -	✓	✓	✓	-
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-EN800-A BM-EN800-B BM-EN801-A BM-EN801-B	BM-EN800-A BM-EN800-B BM-EN801-A BM-EN801-B	BM-EN600	BM-EN600	BM-EN600	BM-EN400
Compatible charger		EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004
Compatible adaptor for charge		SM-BTE80	SM-BTE80	-	-	-	SM-BTE60
Average weight (kg)		3.1	3.6	2.6	2.6	3.2	2.7
Note		* By EC-E8004 (** In case of 100 V AC) *** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC) *** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)

Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-EN405	BT-E8010	BT-E8014	BT-E8016	BT-E8020	BT-E8035
Color	1	Black	Black	Black	Black	Black	Black
	2	Gray	-	-	-	-	-
	3	-	-	-	-	-	-
EN 15194:2017+A1:2023 compliant		-	-	-	-	-	-
UL2271		-	-	-	-	-	-
Battery management system		Second generation	First generation	First generation	First generation	First generation	First generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Rear carrier	Down tube/Seat tube	Down tube/Seat tube	Down tube/Seat tube	Integrated	Integrated
Nominal voltage (V)		36	36	36	36	36	36
Capacity (Ah)		14	* 14	* 11.6	* 17.5	14	* 14
Rated capacity (Ah)		13	13	10.9	16.2	13	13
Energy Content (Wh)		504	* 504	* 418	* 630	504	* 504
Rated capacity (Wh)		468	468	393	583	468	468
Cyclife span for charge (times)		1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
Time to charge (hour)	SOC = 100%	* 4 (** 4.5)	** 4 (** 4.5)	** 3.0 (** 3.5)	** 4.8 (** 5.7)	* 4 (** 4.5)	** 4 (** 4.5)
	SOC = 80%	* 2.5 (** 3.2)	** 2.5 (** 3.2)	** 2.0 (** 2.5)	** 3.2 (** 4)	* 2.5 (** 3.2)	** 2.5 (** 3.2)
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		-	✓	✓	✓	✓	**** -
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-EN400	BM-E8016	BM-E8016	BM-E8016	BM-E8020	BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B
Compatible charger		EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004
Compatible adaptor for charge		SM-BTE60	-	-	-	-	SM-BTE80
Average weight (kg)		2.8	2.6	2.6	3.2	3.1	3.0
Note		* By EC-E8004 (** In case of 100 V AC)	* BT-E8010 for Japan (13 Ah, 468 Wh) ** By EC-E8004 (** In case of 100 V AC)	* BT-E8014 for Japan (10.9 Ah, 393 Wh) ** By EC-E8004 (** In case of 100 V AC)	* BT-E8016 for Japan (16.2 Ah, 583 Wh) ** By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)	* BT-E8035 for Japan (13 Ah, 468 Wh) ** By EC-E8004 (** In case of 100 V AC) **** with SM-BTE80 or EW-CP100

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Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-E8035-L	BT-E8036	BT-E6000	BT-E6001
Color	1	Black	Black	Black	Black
	2	-	-	Gray	Gray
	3	-	-	-	-
EN 15194:2017+A1:2023 compliant		-	-	-	-
UL2271		-	-	-	-
Battery management system		First generation	First generation	First generation	First generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Integrated	Integrated	Rear carrier	Rear carrier
Nominal voltage (V)		36	36	36	36
Capacity (Ah)		* 14	* 17.5	11.6	14
Rated capacity (Ah)		13	16.2	10.9	13
Energy Content (Wh)		* 504	* 630	418	504
Rated capacity (Wh)		468	583	393	468
Cyclife span for charge (times)		1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
Time to charge (hour)	SOC = 100%	** 4 (** 4.5)	** 4.8 (** 5.7)	* 3.0 (** 3.5)	* 4 (** 4.5)
	SOC = 80%	** 2.5 (** 3.2)	** 3.2 (** 4)	* 2.0 (** 2.5)	* 2.5 (** 3.2)
Charge level display		✓	✓	✓	✓
Error signal		✓	✓	✓	✓
Charging port		**** -	**** -	-	-
System on/off switch		✓	✓	✓	✓
Compatible battery mount		BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BM-E6000	BM-E6000
Compatible charger		EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004
Compatible adaptor for charge		SM-BTE80	SM-BTE80	SM-BTE60	SM-BTE60
Average weight (kg)		3.1	3.6	2.7	2.8
Note		* BT-E8035-L for Japan (13 Ah, 468 Wh) ** By EC-E8004 (** In case of 100 V AC) **** with SM-BTE80 or EW-CP100	* BT-E8036 for Japan (16.2 Ah, 583 Wh) ** By EC-E8004 (** In case of 100 V AC) **** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)

Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BM-EN810-A	BM-EN800-A	BM-EN800-B	BM-EN801-A	BM-EN801-B	BM-EN600
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
UL2849		✓	✓	✓	✓	✓	✓
Battery management system		Second generation	Second generation	Second generation	Second generation	Second generation	Second generation
Position		Integrated	Integrated	Integrated	Integrated	Integrated	Down tube/Seat tube
Charging port		-	-	-	-	-	-
Key lock system		-	✓	✓	-	-	✓
Power cable		✓	✓	✓	✓	✓	✓
Power cable length (mm)	75	-	-	-	-	-	-
	250	✓	✓	✓	✓	✓	✓
	300	-	-	-	-	-	✓
	400	✓	✓	✓	✓	✓	-
	600	-	-	-	-	-	✓
	900	-	-	-	-	-	-
	920	-	-	-	-	-	-
	1000	-	-	-	-	-	-
	1020	-	-	-	-	-	-
Compatible satellite charging port		EW-CP110 EW-CP111	EW-CP100	-	EW-CP100	-	-
Cable length to satellite charging port (mm)		200	200	-	200	-	-
Average weight (kg)		-	* 0.31 (Power cable: 250 mm), * 0.32 (Power cable: 400 mm)	* 0.29 (power cable: 250 mm), * 0.30 (power cable: 400 mm)	0.33 (power cable: 250 mm), 0.34 (power cable: 400 mm)	0.31 (power cable: 250 mm), 0.32 (power cable: 400 mm)	* 0.27 (power cable: 250 mm/300 mm), * 0.30 (power cable: 600 mm)
Note			* Without key unit	* Without key unit	-	-	* Without key unit

Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BM-EN400-A	BM-EN400-B	BM-E8016	BM-E8020	BM-E8030-A	BM-E8030-B
Color	1	Black	Black	Black	Black	Black	Black
	2	Gray	Gray	-	-	-	-
	3	-	-	-	-	-	-
UL2849		-	-	-	-	-	-
Battery management system		Second generation	Second generation	First generation	First generation	First generation	First generation
Position		Rear carrier	Rear carrier	Down tube/Seat tube	Integrated	Integrated	Integrated
Charging port		✓	✓	-	-	-	-
Key lock system		✓	✓	✓	✓	✓	✓
Power cable		✓	✓	✓	✓	✓	✓
Power cable length (mm)	75	-	-	-	-	-	-
	250	-	-	✓	✓	✓	✓
	300	-	-	✓	-	-	-
	400	-	-	-	✓	✓	✓
	600	-	-	✓	-	-	-
	900	-	-	-	-	-	-
	920	✓	✓	-	-	-	-
	1000	-	-	-	-	-	-
	1020	✓	✓	-	-	-	-
Compatible satellite charging port		-	-	-	-	EW-CP100	-
Cable length to satellite charging port (mm)		-	-	-	-	200	-
Average weight (kg)		* 0.38 (power cable: 920 mm), * 0.39 (power cable: 1020 mm)	* 0.38 (power cable: 920 mm), * 0.39 (power cable: 1020 mm)	-	-	* 0.31 (Power cable: 250 mm), * 0.32 (Power cable: 400 mm)	* 0.29 (power cable: 250 mm), * 0.30 (power cable: 400 mm)
Note		Compatibility with AXA key unit. * Without key unit	Compatibility with ABUS and Trelock key unit. * Without key unit	-	-	* Without key unit	* Without key unit

Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BM-E8031-A	BM-E8031-B	BM-E6000-A	BM-E6000-B
Color	1	Black	Black	Black	Black
	2	-	-	Gray	Gray
	3	-	-	-	-
UL2849		-	-	-	-
Battery management system		First generation	First generation	First generation	First generation
Position		Integrated	Integrated	Rear carrier	Rear carrier
Charging port		-	-	✓	✓
Key lock system		-	-	✓	✓
Power cable		✓	✓	✓	✓
Power cable length (mm)	75	-	-	-	-
	250	✓	✓	-	-
	300	-	-	-	-
	400	✓	✓	-	-
	600	-	-	-	-
	900	-	-	-	-
	920	-	-	✓	✓
	1000	-	-	-	-
	1020	-	-	✓	✓
Compatible satellite charging port		EW-CP100	-	-	-
Cable length to satellite charging port (mm)		200	-	-	-
Average weight (kg)		0.33 (power cable: 250 mm), 0.34 (power cable: 400 mm)	0.31 (power cable: 250 mm), 0.32 (power cable: 400 mm)	-	-
Note		-	-	Compatibility with AXA key unit.	Compatibility with ABUS and Trelock key unit.

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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	EC-EN814	EC-E6002, EC-E8004
Firmware update by E-TUBE PROJECT	-	-	-
Cable length to battery mount (mm)	200, 550	200, 550	200, 550
Average weight (g)	-	-	-
Note	* Need SM-BTE81 to charge in frame		

Battery Charger

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EC-EN814	EC-E8004-1	EC-E8004-2	EC-E8004-3	EC-E8004-4	EC-E8004-6
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Plug type		-	Type C	Type A	Type A	Type O	Type BF
Typical example country/region		Worldwide	Europe	USA, Canada	Japan	Australia, New Zealand	UK
Compatible voltage		100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	USA/Canada: 120 V AC, 50 - 60 Hz Others: 100 - 240 V AC, 50 - 60 Hz	100 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz
Output		42 V DC, 4A	42 V DC, 4 - 4.6 A	42 V DC, 4 A	42 V DC, 4 - 4.6 A	42 V DC, 4 - 4.6 A	42 V DC, 4 - 4.6 A
CE standard		✓	✓	-	-	-	✓
UL1012		✓	✓	✓	✓	✓	✓
Korea standard		✓	-	-	-	-	-
Japan standard		✓	-	-	✓	-	-
Charging time for 712 Wh battery	Full charge (hour)	5.2	-	-	-	-	-
	80% charge (hour)	3.4	-	-	-	-	-
Charging time for 630 Wh (585 Wh in Japan) battery	Full charge (hour)	-	4.8 (* 5.7)	5.7	5.7	4.8 (* 5.7)	4.8 (* 5.7)
	80% charge (hour)	-	3.2 (* 4)	4	4	3.2 (* 4)	3.2 (* 4)
Charging time for 504 Wh (464 Wh in Japan) battery	Full charge (hour)	-	4 (* 4.5)	4.5	4.5	4 (* 4.5)	4 (* 4.5)
	80% charge (hour)	-	2.5 (* 3.2)	3.2	3.2	2.5 (* 3.2)	2.5 (* 3.2)
Charging time for 418 Wh (393 Wh in Japan) battery	Full charge (hour)	-	3.0 (* 3.5)	3.5	3.5	3.0 (* 3.5)	3.0 (* 3.5)
	80% charge (hour)	-	2.0 (* 2.5)	2.5	2.5	2.0 (* 2.5)	2.0 (* 2.5)
Charging level display		-	-	-	-	-	-
Plug in charging type		✓	✓	✓	✓	✓	✓
Charging temperature		0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C
Storage temperature		-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Error signal		✓	✓	✓	✓	✓	✓
Adapter for battery connector		* -	** -	* -	* -	** -	** -
Compatible AC power cable		SM-BCC1	-	-	-	-	-
Built in AC cable		-	✓	✓	✓	✓	✓
Built in AC cable length (m)		-	2	2	1	1	1
Average weight (g)		600					
Note		* Check latest line-up chart	* In case of 100 V AC ** Check latest line-up chart	* Check latest line-up chart	* Check latest line-up chart	* In case of 100 V AC ** Check latest line-up chart	* In case of 100 V AC ** Check latest line-up chart

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Battery Charger

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

Charging Adapter

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	SM-BTE81	SM-BTE80	SM-BTE60
UL2849	✓	✓	-
Compatible battery	BT-EN817-B	BT-EN806 BT-EN805-L BT-EN805 BT-E8036 BT-E8035-L BT-E8035	BT-EN405 BT-EN404 BT-E6001 BT-E6000
Compatible Charger	EC-EN814	EC-E6000 EC-E6002 EC-E8004	EC-E6000 EC-E6002 EC-E8004
Compatible Charger port	EW-CP110	-	-
For range extender	-	-	-
Built in AC cable	-	-	-
Built in AC cable length (m)	-	-	-
Note			

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Chain Case Fixing Screw

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

CAN Cable

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

ABS Main Unit

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

ABS Main Unit Mounting Parts Set

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

ABS Power Split Cable

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

ABS Wheel Speed Sensor Kit

Series		SHIMANO	SHIMANO	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, F&R180PM, F&R200PM, F&R203PM, IS	F&R160PM, F&R180PM, F&R200PM, F&R203PM, IS	F160PM, F180PM	F160PM, F180PM	
Compatible rotor size	140 mm (SS)	-	-	-	-	
	160 mm (S)	-	-	-	-	
	180 mm (M)	✓	✓	✓	✓	
	203 mm (L)	✓	✓	✓	✓	
	220 mm (LL)	✓	✓	-	-	
Compatible rotor mount	CENTER LOCK	✓	-	✓	-	
	6-bolt	-	✓	-	✓	
Fork and frame mount style	Post mount	140 mm direct	-	-	-	
		160 mm direct	✓	✓	✓	
		180 mm direct	✓	✓	✓	
		200 mm direct	✓	✓	-	
		203 mm direct	✓	✓	-	
	Flat mount	Front	-	-	-	
		Rear	-	-	-	
International A-standard		✓	✓	-	-	
Wire harness length (mm)		-	-	140	140	
Average weight (g)		-	-	-	-	
Note		For ABS, without Speed Sensor	For ABS, without Speed Sensor			

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

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