

# SHIMANO

**2024-2025**

**SPEC. HANDBOOK**

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

**REMARKS** Mark ✓ : available / Mark - : not available

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

# Word definitions

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



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

# Shifter

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

# Shifter

Series		XTR	XTR	SAINT	SAINT	DEORE XT	DEORE XT	
Model no.		SL-M980-B-IR	SL-M980-B-IL	SL-M820	SL-M820-B-I	SL-M8100-R	SL-M8100-IR	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	
Front speeds		-	2/3	-	-	-	-	
Rear speeds		10	-	10	10	12	12	
Compatible rear derailleur type		MTB 10-speed	-	MTB 10-speed	MTB 10-speed	12-speed	12-speed	
Mount type	Clamp band	-	-	✓	-	✓	-	
	I-SPEC B	✓	✓	-	✓**	-	-	
	I-SPEC II	-	-	-	-	-	-	
	I-SPEC EV	-	-	-	-	-	✓	
Shift lever position adjust		✓	✓	-	✓	-	✓ (14 mm slide adjust range)	
Shift lever rotation adjust (non I-SPEC EV)		✓	✓	-	✓	-	-	
Shift lever cable adjust		✓ (CFRP)	✓ (CFRP)	✓ (CFRP)	✓ (CFRP)	✓	✓	
Front 2/3 mode converter		-	✓	-	-	-	-	
Max. multiple shifts (main lever/rear)		4	-	4	4	4	4	
Release function	MULTI RELEASE	✓	-	✓*	✓*	✓	✓	
	INSTANT RELEASE	✓	✓	✓	✓	✓	✓	
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓	
	Adjustable lever	-	-	-	-	-	-	
OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-	
	With (removable)	-	-	-	-	-	-	
	Without	✓	✓	✓	✓	✓	✓	
Multi-bearing construction		4	4	4	4	2	2	
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted	
Clamp screw	Material	-	-	Stainless steel	-	Stainless steel	Stainless steel	
	Finish	-	-	Black	-	Black	Black	
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted	
Release lever body	Material	Steel+CFRP	Steel+CFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	
	Finish	-	-	-	-	-	-	
Base cover	Material	CFRP	CFRP	GFRP	GFRP	GFRP	GFRP	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	
		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)	

SL

SLMT

SMSL

BL

BL

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

CS

HB

FH

WH

CI-DECK

SC

SW

RD

FD

SMAD

SC

# Shifter

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		SL-M8100-L	SL-M8100-IL	SL-M8130-R11	SL-M8130-IR11	SL-M8000-R	SL-M8000-L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2	2	-	-	-	2/3
Rear speeds		-	-	11	11	11	-
Compatible rear derailleur type		-	-	LINKGLIDE 11-speed	LINKGLIDE 11-speed	MTB 11-speed	-
Mount type	Clamp band	✓	-	✓	-	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	✓	-	✓	-	-
Shift lever position adjust		-	(14 mm slide adjust range)	-	✓	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-
Shift lever cable adjust		✓	✓	✓	✓	✓	✓
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		-	-	2	2	4	-
Release function	MULTI RELEASE	-	-	-	-	✓*	-
	INSTANT RELEASE	✓	✓	✓	✓	✓	✓
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
	Adjustable lever	✓	✓	-	-	-	-
OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-
	With (removable)	-	-	-	-	✓	✓
	Without	✓	✓	✓	✓	✓	✓
Multi-bearing construction		2	2	2	2	2	2
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP	Steel+GFRP
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		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	

# 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			

SL

SLMT

SMSL

BL

BL

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

CS

HB

FH

WH

CI-DECK

SC

SW

RD

FD

SMAD

SC



# 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								

# 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							

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# 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	-	-	-	-	-	
		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)	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	-	-	-	-	-
		OPTISLIC <sup>K</sup>	✓	✓	✓	✓	✓
		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							

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# Shifter

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

# Shifter

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

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## 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

## Shifter (Integration Unit)

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-T780	SL-M780, SL-T780
Note		* I-SPEC B-type compatible	* I-SPEC B-type compatible	* I-SPEC B-type compatible	* I-SPEC B-type compatible

# Brake Lever (Hydraulic Disc Brake)

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

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

# Brake Lever (Hydraulic Disc Brake)

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

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# Brake Lever

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

# Rear Derailleur

Series		XTR	XTR	XTR	DEORE XT	DEORE XT	DEORE XT
Model no.		RD-M9100-GS	RD-M9100-SGS	RD-M9120-SGS	RD-M8100-GS	RD-M8100-SGS	RD-M8120-SGS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12	12	12 (front double)	12	12	12 (front double)
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
RD construction	SHIMANO SHADOW RD	-	-	-	-	-	-
	SHIMANO SHADOW RD+	✓	✓	✓	✓	✓	✓
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	-	-	-	-	-	-
	Riveted adapter (ROAD type)	-	-	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		0T	0T	10T	0T	0T	10T
Total capacity		35T	41T	41T	35T	41T	45T
Low sprocket	Max.	45T	51T	45T	45T	51T	45T
	Min.	45T	51T	45T	45T	51T	45T
Top sprocket	Max.	10T	10T	10T	10T	10T	10T
	Min.	10T	10T	10T	10T	10T	10T
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	

SL

SLMT

SMSL

BL

BL

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

CS

HB

FH

WH

CI-DECK

SC

SW

RD

FD

SMAD

SC

# Rear Derailleur

Series		SLX	SLX	DEORE	DEORE XT	DEORE XT	DEORE
Model no.		RD-M7100-SGS	RD-M7120-SGS	RD-M6100-SGS	RD-M8130-SGS	RD-M8000-SGS	RD-M5100-SGS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12	12 (front double)	12	11	11	11
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
RD construction	SHIMANO SHADOW RD	-	-	-	-	-	-
	SHIMANO SHADOW RD+	✓	✓	✓	✓	✓	✓
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	-	-	-	-	✓*	-
	Riveted adapter (ROAD type)	-	-	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		0T	10T	0T	0T	18T	0T
Total capacity		41T	45T	41T	39T	47T	40T
Low sprocket	Max.	51T	45T	51T	50T	40T (3x11-speed), 42T (2x11-speed), 46T (1x11-speed)	51T
	Min.	51T	45T	51T	50T	40T	51T
Top sprocket	Max.	10T	10T	10T	11T	11T	11T
	Min.	10T	10T	10T	11T	11T	11T
Fluoroc 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	-	-	-	-	-	-
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	✓	✓	✓*	✓*	✓*	✓*
	Riveted adapter (ROAD type)	-	-	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-	-	-
Mode converter		-	-	✓	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		10T	10T	Single	22T	18T	22T
Total capacity		41T	41T	25T	43T	35T	43T
Low sprocket	Max.	46T (1x11/ 1x10-speed), 42T (2x11/2x10-speed)	42T	28T, 36T	36T	36T	36T
	Min.	42T	42T	23T	32T	32T	32T
Top sprocket	Max.	11T	11T	12T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		4	3	5	2	3	3
Pulley	Guide pulley bearing	-	-	-	-	-	-
	Tension pulley bearing	-	-	Sealed bearing	-	-	-
	Teeth	11T	11T	11T	11T	11T	11T
	Screws material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley screw	✓	✓	✓	✓	✓	✓
Bracket	Material	Steel	Steel	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
B-axle	Hollow axle	✓	✓	✓	✓	✓	✓
	Material	Stainless steel	Stainless steel	Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	Anodized	-	-	-
B-axle 2	Hollow axle	✓	✓	✓	✓	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	Zinc plated	-	-	-	-
Plate body	Material	Resin	Resin	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Resin	Resin	Aluminum	Steel	Steel	Steel
	Finish	-	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Steel	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	Black	-	-	-
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)		-	-	280 (w/o mode converter)	313	278	281
Note				* w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available

# Rear Derailleur

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

# Front Derailleur

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

SL

SLMT

SMSL

BL

BL

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

CS

HB

FH

WH

CI-DECK

SC

SW

RD

FD

SMAD

SC



# Front Derailleur

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

# Front Derailleur

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

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# Front Derailleur

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

# Front Derailleur

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

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# Front Derailleur

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

# Front Derailleur

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

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# Front Derailleur

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

# Front Derailleur

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

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# Brake (Hydraulic Disc Brake)

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

# Brake (Hydraulic Disc Brake)

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

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# Brake (Hydraulic Disc Brake)

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

# Brake (Hydraulic Disc Brake)

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

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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	B03S-RX Resin (w/o fin)
	Standard 2	-
	Option 1	-
	Option 2	-
Recommended brake lever		V-BRAKE BL (1.5-2.5 finger)
Recommended disc brake rotor		SM-RT10, SM-RT30, SM-RT26
Mount type		Post type
Piston		1
Piston material		-
Caliper	MONO-BODY	-
	Material	Aluminum
	Finish	Painted
Caliper fixing screw	Material	Steel
	Tool size	5 mm
	Anti loosen method	Snap ring
Pad mount		Split pin
Average weight (g)		-
Note		

## Brake (V-BRAKE)

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

# Crankset

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

SL

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# Crankset

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

# Crankset

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

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# Crankset

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

# Crankset

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

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# Crankset

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

# Crankset

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

SL

SLMT

SMSL

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FC

SMCD

SMCR

BB

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HB

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CI-DECK

SC

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RD

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SMAD

SC

# Crankset

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

# Crankset

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

SL

SLMT

SMSL

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BL

RD

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FC

SMCD

SMCR

BB

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HB

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WH

CI-DECK

SC

SW

RD

FD

SMAD

SC

# Crankset

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

# Chain device

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

SL

SLMT

SMSL

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BL

RD

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BR

FC

SMCD

SMCR

BB

CS

HB

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WH

CI-DECK

SC

SW

RD

FD

SMAD

SC



# Chainring

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

# Chainring

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

SL

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# 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		

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**BB**

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# Cassette

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

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

# Cassette

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

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

# Front Hub (Disc Brake)

Series		XTR	XTR	XTR	SAINT	DEORE XT	DEORE XT
Model no.		HB-M9110	HB-M9110-B	HB-M9110-B5	HB-M820	HB-M8110	HB-M8110-B
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		100	110	110	110	100	110
Spoke hole	28H	✓	✓	✓	-	✓	✓
	32H	✓	✓	-	✓	✓	✓
	36H	-	-	-	✓	✓	✓
External serration disc brake rotor lock ring	With	-	-	-	✓	-	-
	Without	✓	✓	✓	-	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		15 mm E-THRU	15 mm E-THRU	15 mm E-THRU	20 mm Thru	15 mm E-THRU	15 mm E-THRU
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	-	-	-	-	-	-
Thru axle (length x inner diameter, mm)	100 x 15	✓	-	-	-	✓	-
	110 x 15	-	✓	✓	-	-	✓
	110 x 20	-	-	-	✓	-	-
Flange distance (mm)		60.2	70.2	62.76	61.6	60.2	70.2
Offset (mm)		5.4	5.4	3.63	5.6	5.7	5.7
P.C.D. left / right (mm)		44/44	44/44	45	52	44/44	44/44
Flange diameter left / right (mm)		52.8	52.8	51	59.6	52.8	52.8
Seal		Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	-	-
Internal grease sleeve		-	-	-	-	✓	✓
Bearing	Stainless ball	✓	✓	✓	✓	✓	✓
	Cup	Grinded	Grinded	Grinded	CBN	Polish	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Finish	Anodized	Anodized	Anodized	Anodized	-	-
Average weight (g)		132	137	146	202	142	147
Note		-	-	For straight spoke ERD: 550 - 610 mm Rim offset: 0 - 3 mm Intersections: 3 cross only including spoke heads in hub shell. Some spoke calculators may call this 2 cross.  Contact the nearest SHIMANO sales office for more information	Axle is supplied with front fork.		

# Front Hub (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	SLX	SLX
Model no.		HB-M8110-B5	HB-M8000	HB-M8010	HB-M8010-B	HB-M7110	HB-M7110-B
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	Series color	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		110	100	100	110	100	110
Spoke hole	28H	✓	-	-	-	✓	✓
	32H	-	✓	✓	✓	✓	✓
	36H	-	-	✓	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		15 mm E-THRU	Quick release	15 mm E-THRU	15 mm E-THRU	15 mm E-THRU	15 mm E-THRU
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	-	✓	-	-	-	-
Thru axle (length x inner diameter, mm)	100 x 15	-	-	✓	-	✓	-
	110 x 15	✓	-	-	✓	-	✓
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		62.8	60.2	60.2	70.2	60.2	70.2
Offset (mm)		3.7	6	5.4	5.4	5.7	5.7
P.C.D. left / right (mm)		45/45	44/41	44/44	44/44	44/44	44/44
Flange diameter left / right (mm)		51	52.8/51.4	52.8	52.8	52.8	52.8
Seal		-	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
Internal grease sleeve		✓	✓	✓	✓	✓	✓
Bearing	Stainless ball	✓	-	-	-	✓	✓
	Cup	Polish	-	-	-	Polish	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	Aluminum	-	-	-	-
	Finish	-	Anodized	-	-	-	-
Quick release housing	Material	-	Aluminum	-	-	-	-
	Finish	-	Anodized	-	-	-	-
Quick release nut	Material	-	Steel+Resin	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	Aluminum	Aluminum	-	-
	Finish	-	-	Anodized	Anodized	-	-
Average weight (g)		158	167	148	158	142	147
Note	For straight spoke ERD: 550 - 610 mm Rim offset: 0 - 3 mm Intersections: 3 cross only including spoke heads in hub shell. Some spoke calculators may call this 2 cross.  Contact the nearest SHIMANO sales office for more information		-	Axle is supplied with front fork.	-	-	-

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# Front Hub (Disc Brake)

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

# Front Hub (Disc Brake)

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

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# FREEHUB (Disc Brake)

Series		XTR	XTR	XTR	SAINT	SAINT	DEORE XT
Model no.		FH-M9111	FH-M9111-B	FH-M9111-B5	FH-M820	FH-M825	FH-M8110
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		12	12	12	11/10/9/8	11/10/9/8	12
O.L.D. (mm)		142	148	148	135	150	142
Spoke hole	28H	✓	✓	✓	-	-	✓
	32H	✓	✓	-	✓	✓	✓
	36H	-	-	-	✓	✓	✓
10 tooth cog compatible		✓	✓	✓	-	-	✓
External serration disc brake rotor lock ring	With	-	-	-	✓	✓	-
	Without	✓	✓	✓	-	-	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Thru	Thru	12 mm E-THRU
Quick release skewer length (mm)	166	-	-	-	-	-	-
	168	-	-	-	-	-	-
	170	-	-	-	-	-	-
	172	-	-	-	-	-	-
	173	-	-	-	-	-	-
	174	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	✓	-	-
	135 x 12	-	-	-	✓	-	-
	142 x 12	✓	-	-	-	-	✓
	148 x 12	-	✓	✓	-	-	-
	150 x 12	-	-	-	-	✓	-
157 x 12	-	-	-	-	-	-	
Flange distance (mm)		55.89	63.06	56.0	57.4	72.4	55.17
Offset (mm)		7.05	7.02	6.8	6.4	6.6	6.72
P.C.D. left / right (mm)		50/61	47.25/61	45/61	44/45	44/45	61/61
Flange diameter left / right (mm)		59/70	56.25/70	51/68.4	52.8/53.8	52.8/53.8	69.8/69.8
Spline type	MICRO SPLINE	✓	✓	✓	-	-	✓
	HG spline J2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed)	-	-	-	✓	✓	-
HG spline S (7-speed)	-	-	-	-	-	-	
Engagement type		Direct engagement	Direct engagement	Direct engagement	Pawl ratchet	Pawl ratchet	Direct engagement
Quick engagement		✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 deg.)	✓ (max 7.0 deg.)
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	✓	✓	-
Bearing	Stainless ball	✓	✓	✓	-	-	-
	Cup	Grinded	Grinded	Grinded	Grinded	Grinded	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN+Polish
	Cartridge	-	-	-	-	-	-
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Aluminum
	Finish	Anodized	Anodized	Anodized	-	-	Anodized
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Aluminum
	Finish	Anodized	Anodized	Anodized	-	-	Anodized
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	-
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
Average weight (g) (w/o axle, quick release nor lock ring)		237	238	241	347 (ø10) 333 (ø12)	348	305
Note				* For straight spoke, Lacing pattern limited to 3-cross, non-offset rim  For details, refer to Products Technical Information			

# FREEHUB (Disc Brake)

Series		DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT	DEORE XT
Model no.		FH-M8110-B	FH-M8110-BS	FH-M8130-B	FH-M8000	FH-M8010	FH-M8010-B
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	Series color	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		12	12	12	11/10/9/8	11/10/9/8	11/10/9/8
O.L.D. (mm)		148	148	157	135	142	148
Spoke hole	28H	✓	✓	✓	-	-	-
	32H	✓	-	✓	✓	✓	✓
	36H	✓	-	-	-	✓	-
10 tooth cog compatible		✓	✓	✓	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	166	-	-	-	-	-	-
	168	-	-	-	✓	-	-
	170	-	-	-	-	-	-
	172	-	-	-	-	-	-
	173	-	-	-	✓	-	-
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter, mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	✓	-
	148 x 12	✓	✓	-	-	-	✓
	150 x 12	-	-	-	-	-	-
	157 x 12	-	-	✓	-	-	-
Flange distance (mm)		62.16	55.95	72.69	57.4	57.4	63.4
Offset (mm)		6.6	6.78	6.43	6.9	6.4	6.4
P.C.D. left / right (mm)		60/61	45/61	58/61	44/45	44/45	44/45
Flange diameter left / right (mm)		68.8/69.8	51/68.4	66.8/69.8	52.8/53.8	52.8/53.8	52.8/53.8
Spline type	MICRO SPLINE	✓	✓	✓	-	-	-
	HG spline J2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed)	-	-	-	✓	✓	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Direct engagement	Direct engagement	Direct engagement	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 deg.)
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	✓	✓	✓
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	Polish	Polish	Polish	-	-	-
	Cone	CBN+Polish	CBN+Polish	CBN+Polish	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Anodized	Anodized	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	Aluminum	-	-
	Finish	-	-	-	Anodized	-	-
Quick release housing	Material	-	-	-	Aluminum	-	-
	Finish	-	-	-	Anodized	-	-
Quick release nut	Material	-	-	-	Steel+Resin	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		307	306	310	331	359	367
Note		<p>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.</p>					

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# FREEHUB (Disc Brake)

Series		SLX	SLX	SLX	DEORE	DEORE	DEORE
Model no.		FH-M7110	FH-M7110-B	FH-M7130-B	FH-M6000	FH-M6010	FH-M5100
Color	1 Hub shell	Series color	Series color	Series color	Series black	Series black	Series black
	1 Quick release	-	-	-	Series black	-	Series black
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		12	12	12	11/10/9/8	11/10/9/8	11/10/9/8
O.L.D. (mm)		142	148	157	135	142	135
Spoke hole	28H	✓	✓	✓	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	-	✓	-	✓
10 tooth cog compatible		✓	✓	✓	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release	12 mm E-THRU	Quick release
Quick release skewer length (mm)	166	-	-	-	-	-	-
	168	-	-	-	✓	-	✓
	170	-	-	-	-	-	-
	172	-	-	-	-	-	-
	173	-	-	-	✓	-	✓
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
Thru axle (length x inner diameter, mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	✓	-	-	-	✓	-
	148 x 12	-	✓	-	-	-	-
	150 x 12	-	-	-	-	-	-
	157 x 12	-	-	✓	-	-	-
Flange distance (mm)		55.17	62.16	72.69	57.4	57.4	55.45
Offset (mm)		6.72	6.6	6.43	6.6	6.4	7.6
P.C.D. left / right (mm)		61/61	60/61	58/61	45	44/45	45
Flange diameter left / right (mm)		69.8/69.8	68.8/69.8	66.8/69.8	53.8	52.8/53.8	53.8
Spline type	MICRO SPLINE	✓	✓	✓	-	-	-
	HG spline J2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed)	-	-	-	✓	✓	✓
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		Direct engagement	Direct engagement	Direct engagement	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	-	✓ (more than 36 times/360 deg.)	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	✓	✓	✓
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	Polish	Polish	Polish	-	-	-
	Cone	CBN+Polish	CBN+Polish	CBN+Polish	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Anodized	Anodized	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	-	Aluminum	-	Aluminum
	Finish	-	-	-	Painted	-	Painted
Quick release housing	Material	-	-	-	Aluminum	-	Aluminum
	Finish	-	-	-	Painted	-	Painted
Quick release nut	Material	-	-	-	Steel+Resin	-	Steel+Resin
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g) (w/o axle, quick release not lock ring)		350	354	359	-	-	-
Note							

# FREEHUB (Disc Brake)

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

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# FREEHUB (Disc Brake)

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

# Wheel (Disc Brake)

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

SL

SLMT

SMSL

BL

BL

RD

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BR

BR

BR

FC

SMCD

SMCR

BB

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HB

FH

WH

CI-DECK

SC

SW

RD

FD

SMAD

SC



# Wheel (Disc Brake)

Series	DEORE XT	DEORE XT	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.	WH-M8120-TL-R12-B-29	WH-M8120-TL-R12-B-275	WH-MT620-TL-F15-B-29	WH-MT620-TL-F15-B-275	WH-MT620-TL-R12-B-29	WH-MT620-TL-R12-B-275	
Model name	WH-M8120-TL	WH-M8120-TL	WH-MT620-TL	WH-MT620-TL	WH-MT620-TL	WH-MT620-TL	
Specification	R12-B-29	R12-B-275	F15-B-29	F15-B-275	R12-B-29	R12-B-275	
Color	1 Hub shell	Series color	Series color	Black	Black	Black	
	1 Quick release	-	-	-	-	-	
	2 Hub shell	-	-	-	-	-	
	2 Quick release	-	-	-	-	-	
Front/Rear	Rear	Rear	Front	Front	Rear	Rear	
Brake type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	
Rear speeds	12	12	-	-	12	12	
O.L.D. (mm)	148	148	110	110	148	148	
Wheel size	622 x 30C (29 inch)	584 x 30C (27.5 inch)	622 x 30C (29 inch)	584 x 30C (27.5 inch)	622 x 30C (29 inch)	584 x 30C (27.5 inch)	
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	
	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	
	Internal width (mm)	30	30	30	30	30	
	External width (mm)	34.7	34.7	34.7	34.7	34.7	34.7
	Rim joint	Welded	Welded	Welded	Welded	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	✓	✓	✓	✓	✓	✓
	Requires rim tape	✓ (30-622)	✓ (30-584)	✓ (30-584)	✓ (30-584)	✓ (30-584)	✓ (30-584)
Spokes	Number	28	28	24	24	24	
	Straight pull	-	-	-	-	-	
	J-bend	✓	✓	✓	✓	✓	
	Diameter (mm)	2.0-1.8	2.0-1.8	-	-	-	-
Axle fixing method	12 mm E-THRU	12 mm E-THRU	15 mm E-THRU	15 mm E-THRU	12 mm E-THRU	12 mm E-THRU	
Quick release skewer length (mm)	133	-	-	-	-	-	
	168	-	-	-	-	-	
	173	-	-	-	-	-	
	178	-	-	-	-	-	
Thru axle (length x inner diameter ; mm)	100 x 15	-	-	-	-	-	
	110 x 15	-	-	✓	✓	-	
	142 x 12	-	-	-	-	-	
	148 x 12	✓	✓	-	-	✓	
Spline type	MICRO SPLINE	✓	✓	-	-	✓	
	HG spline J2 (ROAD 12-speed dedicated)	-	-	-	-	-	
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	
	HG spline M (10/9/8-speed, MTB 11-speed)	-	-	-	-	-	
HG spline S (7-speed)	-	-	-	-	-	-	
Engagement type	Direct engagement	Direct engagement	-	-	Pawl ratchet	Pawl ratchet	
Quick engagement	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	-	-	-	-	
Bearing	Stainless ball	-	-	-	-	-	
	Cup	-	-	-	-	-	
	Cone	CBN+Polish	CBN+Polish	CBN	CBN	CBN	
	Cartridge	-	-	-	-	-	
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	
	FREEHUB body	Contact	Contact	-	-	Contact	
Internal grease sleeve	-	-	-	-	-	-	
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	Black	Black	
Nipple	Material	Aluminum	Aluminum	Brass	Brass	Brass	
	Finish	Black	Black	Black	Black	Black	
FREEHUB body	Material	Aluminum	Aluminum	-	-	Steel	
	Finish	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Painted	Painted	Painted	
Axle	Material	Aluminum	Aluminum	Steel	Steel	Steel	
	Finish	Anodized	Anodized	-	-	-	
Quick release lever	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
	Color	-	-	-	-	-	
Quick release housing	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Quick release nut	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Disc brake rotor lock ring	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	1061	1016	990	940	1255	1206	
Note							

# Wheel (Disc Brake)

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

SL

SLMT

SMSL

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BR

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SMCD

SMCR

BB

CS

HB

FH

WH

CI-DECK

SC

SW

RD

FD

SMAD

SC

# Wheel (Disc Brake)

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

# Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-MT500-CL-F15-275	WH-MT500-CL-R12-275	WH-MT500-CL-F15-B-275	WH-MT500-CL-R12-B-275	WH-MT500-CL-F-29	WH-MT500-CL-R-29
Model name	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL
Specification	F15-275	R12-275	F15-B-275	R12-B-275	F-29	R-29
Color	1 Hub shell	Black	Black	Black	Black	Black
	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 ***	-	11/10/9/8 ***	-	11/10/9/8 ***
O.L.D. (mm)	100	142	110	148	100	135
Wheel size	584 x 24C (27.5 inch)	584 x 24C (27.5 inch)	584 x 24C (27.5 inch)	584 x 24C (27.5 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	29 x 2.00 - 2.35
Rim	Height (mm)	21	21	21	21	21
	Internal width (mm)	24	24	24	24	24
	External width (mm)	29.6	29.6	29.6	29.6	29.6
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
	Requires rim tape	✓ (24-584)	✓ (24-584)	✓ (24-584)	✓ (24-584)	✓ (24-622)
Spokes	Number	24	24	24	24	24
	Straight pull	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓
	Diameter (mm)	2.3	2.3	2.3	2.3	2.3
Axle fixing method	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU	Quick release	Quick release
Quick release skewer length (mm)	133	-	-	-	✓	-
	168	-	-	-	-	✓
	173	-	-	-	-	✓
	178	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 15	✓	-	-	-	-
	110 x 15	-	-	✓	-	-
	142 x 12	-	✓	-	-	-
	148 x 12	-	-	-	✓	-
Spline type	MICRO SPLINE	-	-	-	-	-
	HG spline J2 (ROAD 12-speed dedicated)	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed)	-	✓	-	✓	-
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
	Cartridge	-	-	-	-	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	-	Contact	-	Contact	-
Internal grease sleeve	✓	✓	✓	✓	✓	✓
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass
	Finish	Black	Black	Black	Black	Black
FREEHUB body	Material	-	Steel	-	Steel	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Axle	Material	Aluminum	Steel	Aluminum	Steel	Steel
	Finish	Anodized	-	Anodized	-	-
Quick release lever	Material	-	-	-	Aluminum	Aluminum
	Finish	-	-	-	Painted	Painted
	Color	-	-	-	Black	Black
Quick release housing	Material	-	-	-	Steel	Steel
	Finish	-	-	-	Painted	Painted
Quick release nut	Material	-	-	-	Steel+Resin	Steel+Resin
	Finish	-	-	-	-	-
Disc brake rotor lock ring	Material	Steel	-	Steel	-	-
	Finish	Painted	-	Painted	-	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	936	1133	946	1145	1013	1200
Note	-	*** Spoke protector is available only for 9 & 10-speed	-	*** Spoke protector is available only for 9 & 10-speed	-	-

SL

SLMT

SMSL

BL

BL

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

CS

HB

FH

WH

CI-DECK

SC

SW

RD

FD

SMAD

SC

# Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-MT500-CL-F15-29	WH-MT500-CL-R12-29	WH-MT500-CL-F15-B-29	WH-MT500-CL-R12-B-29	WH-MT15-A-F15-275
Model name		WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT15-A
Specification		F15-29	R12-29	F15-B-29	R12-B-29	F15-275
Color	1 Hub shell	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	Black
	2 Hub shell	-	-	-	-	White
	2 Quick release	-	-	-	-	Black
Front/Rear		Front	Rear	Front	Rear	Front
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		-	11/10/9/8 ***	-	11/10/9/8 ***	-
O.L.D. (mm)		100	142	110	148	100
Wheel size		622 x 24C (29 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)	584 x 19C (27.5 inch)
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size	29 x 2.00 - 2.35	29 x 2.00 - 2.35	29 x 2.00 - 2.35	29 x 2.00 - 2.35	27.5 x 1.90 - 2.25
Rim	Height (mm)	21	21	21	21	21
	Internal width (mm)	24	24	24	24	19
	External width (mm)	29.6	29.6	29.6	29.6	24.6
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
	Requires rim tape	✓ (24-622)	✓ (24-622)	✓ (24-622)	✓ (24-622)	✓ (20-584)
Spokes	Number	24	24	24	24	28
	Straight pull	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓
	Diameter (mm)	2.3	2.3	2.3	2.3	2.0
Axle fixing method		15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 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 J2 (ROAD 12-speed dedicated)	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed)	-	✓	-	✓	-
HG spline S (7-speed)	-	-	-	-	-	
Engagement type		-	Pawl ratchet	-	Pawl ratchet	-
Quick engagement		-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	-	Contact	-	Contact	-
Internal grease sleeve		✓	✓	✓	✓	✓
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized (black rim)
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass
	Finish	Black	Black	Black	Black	Silver
FREEHUB body	Material	-	Steel	-	Steel	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Axle	Material	Aluminum	Steel	Aluminum	Steel	Aluminum
	Finish	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	Steel	-	Steel	-	Steel
	Finish	Painted	-	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
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE 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)		988	1186	998	1199	995 (Black) 1000 (White)
Note		-	-	-	-	-

# CI-DECK

MTB

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

SL

SLMT

SMSL

BL

BL

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

CS

HB

FH

WH

CI-DECK

SC

SW

RD

FD

SMAD

SC

## Cycle Computer (CI-DECK)

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

# Shift Switch

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

- SL
- SLMT
- SMSL
- BL
- BL
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- CS
- HB
- FH
- WH
- CI-DECK
- SC
- SW
- RD
- FD
- SMAD
- SC



# Rear Derailleur

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

# Front Derailleur

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

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## 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

# System Information Display

Series		SHIMANO
Model no.		SC-MT800
Compatible system		E-TUBE
Wireless system		ANT private *, Bluetooth®LE
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	✓
Master unit		-
Firmware update by E-TUBE PROJECT		✓
SD50 port (pcs)		3
SD300 port (pcs)		0
SD50 connector (pcs)		0
SD300 connector (pcs)		0
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>

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SMCD

SMCR

BB

CS

HB

FH

WH

CI-DECK

SC

SW

RD

FD

SMAD

SC



# TREKKING

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

# 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	-	-	-
		OPTISLIC <sup>K</sup>	✓	✓	✓
		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	-	-	✓	✓
Mount	Direct attachment (conventional)	✓	✓	✓	✓
	Direct mount	✓*	✓*	-	-
	Riveted adapter (ROAD type)	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-
Mode converter		-	-	-	-
Cable adjuster		-	-	✓	✓
Max. front difference		22T	22T	22T	22T
Total capacity		47T	47T	45T	45T
Low sprocket	Max.	36T	36T	34T	34T
	Min.	32T	32T	28T	28T
Top sprocket	Max.	11T	11T	11T	11T
	Min.	11T	11T	11T	11T
Fluoric coated link bushings		4	3	2	1
Pulley	Guide pulley bearing	Sealed Bearing	-	-	-
	Tension pulley bearing	Sealed bearing	-	-	-
	Teeth	11T	11T	11T	11T
	Screws material	Stainless steel	Stainless steel	Steel	Steel
	Sunken type pulley screw	✓	✓	✓	✓
Bracket	Material	Aluminum	Steel	-	-
	Finish	Painted	Painted	-	-
B-axle	Hollow axle	✓	✓	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-
B-axle 2	Hollow axle	✓	✓	-	-
	Material	Stainless steel	Stainless steel	-	-
	Finish	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel
	Finish	-	-	Painted	Painted
Plate body	Material	Aluminum	GFRP	Resin	Resin
	Finish	Painted	-	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Outer plate	Material	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted
Cable fixing screw	Material	Stainless steel	Steel	Stainless steel	Stainless steel
	Finish	Plated	Plated	-	-
Stroke adjusting screw	Material	Steel	Steel	Stainless steel	Steel
	Finish	Plated	Plated	-	Plated
Average weight (g)		253	-	-	-
Note		* Possible to attach to direct mount in case bracket is removed.	* Possible to attach to direct mount in case bracket is removed.		

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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	✓ * (w/ S size adapter)	✓ (w/ S size adapter) ✓ (w/ S size adapter)	
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter) ✓ (w/ M size adapter)	
		34.9	✓	✓	✓
	E-type	With bottom bracket plate	-	-	-
		Without bottom bracket plate	-	-	-
	Direct mount	-	-	-	
Cable route type	Dual-pull	✓	✓	✓	
	Top-pull exclusive	-	-	-	
	Down-pull exclusive	-	-	-	
	Front-pull	-	-	-	
Chain line (mm)		48.8	50	50	
Chainstay angle (deg.)		63-68	63-66	66-69	
Top gear teeth		46T	44T, 48T	44T, 48T	
Total capacity		16T	22T	22T	
Applicable top-mid tooth difference		-	12T	12T	
Multi access cable fixing screw		-	-	-	
Angled stroke adjust screw		-	-	-	
Angled clamp band design		✓	✓	✓	
Link bushings		-	-	-	
Front clamp band	Material	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	
Clamp screw	Material	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	
Bottom bracket plate	Material	-	-	-	
	Finish	-	-	-	
Outer link	Material	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	
Stroke adjusting screw	Material	Stainless steel	Steel	Steel	
	Finish	-	Zinc plated	Zinc plated	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	
Note		* S-size adapter is available only OTC package			

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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
Chaining 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	-	-	-	-	-	-
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							

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# 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
Chaining combination		44-32-22T, 48-36-26T
Q-factor (mm)		187.3
Crank arm length (mm)	165	✓
	167.5	-
	170	✓
	172.5	-
	175	✓
	177.5	-
	180	-
Optional chain guard	With bash guard	-
	With chain guard	✓
	Without chain/bash guard	✓
HOLLOWTECH II		-
2-PIECE CRANKSET		-
HOLLOWTECH crank arm		-
OCTALINK		-
HOLLOWGLIDE		-
Compatible bottom bracket type	Outboard	-
	OCTALINK	-
	Square	✓
Recommended bottom bracket	Threaded (normal)	BB-UN300
	Threaded (E-type)	-
	Threaded (chain case)	BB-UN300-K
	Press-Fit	-
Axle length of BB-UN/ES (mm)		LL123
Threaded bottom bracket shell width (mm)	68	✓
	73	✓
	83	-
Chain case compatible		✓
Crank arm	Material	Aluminum
	Finish	Painted
Crank axle	Material	-
	Finish	-
Spider arm	Material	-
	Finish	-
Spider arm cover	Material	-
	Finish	-
Outer ring	Material	Steel
	Finish	Painted
Middle ring	Material	Steel
	Finish	Painted
Inner ring	Material	Steel
	Finish	Painted
Outer/middle ring fixing bolt	Material	Stainless steel
	Finish	-
Inner ring fixing screw	Material	Stainless steel
	Finish	-
Stainless chain guard fixing screw		✓ (44-32-22T), - (48-36-26T)
Crank fixing screw included		✓
Average weight (g) (175 mm, w/o bottom bracket)		-
Note		

# Front Hub (Rim/Disc Brake)

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

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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	11/10/9/8
O.L.D. (mm)		135	135
Spoke hole	28H	-	-
	32H	✓	✓
	36H	✓	✓
External serration disc brake rotor lock ring	With	-	-
	Without	-	-
Internal serration disc brake rotor lock ring	With	-	-
	Without	-	-
CENTER LOCK mount cover option		-	-
Axle fixing method		Quick release	Quick release
Quick release skewer length (mm)	166	-	✓
	168	✓	-
	170	-	✓
	173	✓	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-
	135 x 12	-	-
	142 x 12	-	-
	148 x 12	-	-
	150 x 12	-	-
Flange distance (mm)		59.2	59.2
Offset (mm)		7.8	7.5
P.C.D. left / right (mm)		44/45	45/45
Flange diameter left / right (mm)		53.8	53.8
Spline type	MICRO SPLINE	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-
	HG spline L (ROAD 12/11-speed)	-	-
	HG spline M (10/9/8-speed, MTB 11-speed)	✓	✓
	HG spline S (7-speed)	-	-
Seal	Hub	Labyrinth+Contact	Contact
	FREEHUB body	Contact	-
Internal grease sleeve		✓	-
Bearing	Stainless ball	-	-
	Cup	-	-
	Cone	CBN	-
FREEHUB body	Material	Steel	Steel
	Finish	-	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Axle	Material	Steel	Steel
	Finish	-	-
Quick release lever	Material	Aluminum	Steel
	Finish	Painted	Plated
Quick release housing	Material	Aluminum	Steel
	Finish	Painted	Plated
Quick release nut	Material	Steel+Resin	Steel+Resin
	Finish	-	-
Disc brake rotor lock ring	Material	-	-
	Finish	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		-	-
Note			

# GRAVEL

	<i>Page</i>	
<b>Shift/Brake Lever</b> (Hydraulic Disc Brake)	<b>88</b>	<b>ST</b>
<b>Shifter</b>	<b>91</b>	<b>SL</b>
<b>Brake Lever</b> (Hydraulic Disc Brake)	<b>92</b>	<b>BL</b>
<b>Brake Lever</b> (Sub Lever for Hydraulic Disc Brake)	<b>93</b>	<b>BL</b>
<b>Brake Lever</b> (Hydraulic Disc Brake, Flat Handlebar type)	<b>94</b>	<b>BL</b>
<b>Rear Derailleur</b>	<b>95</b>	<b>RD</b>
<b>Front Derailleur</b>	<b>97</b>	<b>FD</b>
<b>Brake</b> (Hydraulic Disc Brake)	<b>98</b>	<b>BR</b>
<b>Crankset</b>	<b>99</b>	<b>FC</b>
<b>Wheel</b> (Disc Brake)	<b>101</b>	<b>WH</b>
<Di2 spec.> <b>Shift/Brake Lever</b> (Hydraulic Disc Brake)	<b>103</b>	<b>ST</b>
<b>Rear Derailleur</b>	<b>104</b>	<b>RD</b>
<b>Front Derailleur</b>	<b>105</b>	<b>FD</b>

# Shift/Brake Lever (Hydraulic Disc Brake)

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

# Shift/Brake Lever (Hydraulic Disc Brake)

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

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# Shift/Brake Lever (Hydraulic Disc Brake)

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

# Shifter

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

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## Brake Lever (Hydraulic Disc Brake)

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

# Brake Lever (Sub Lever for Hydraulic Disc Brake)

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

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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	-	-	-	-	-	-
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	✓	-	-	✓	✓	✓
	Riveted adapter (ROAD type)	-	-	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-	-	-
Cable adjuster		✓	✓	✓	✓	✓	✓
Max. front difference		17T	-	-	17T	17T	-
Total capacity		42T	35T	41T	40T	40T	31T
Low sprocket	Max.	36T	45T	51T	34T	34T	42T
	Min.	34T	45T	51T	30T	30T	40T
Top sprocket	Max.	11T	10T	10T	11T	11T	11T
	Min.	11T	10T	10T	11T	11T	11T
Fluoroc 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					-		-

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# 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	-	-
Mount	Direct attachment (conventional)	✓	✓
	Direct mount	✓	✓
	Riveted adapter (ROAD type)	-	-
	Riveted adapter (BMX-track type)	-	-
Cable adjuster		✓	✓
Max. front difference		-	16T
Total capacity		31T	41T
Low sprocket	Max.	42T	36T
	Min.	40T	32T
Top sprocket	Max.	11T	11T
	Min.	11T	11T
Fluoric coated link bushings		4	4
Pulley	Guide pulley bearing	✓	-
	Tension pulley bearing	✓	-
	Teeth	11T	11T
	Screws material	Stainless steel	Stainless steel
	Sunken type pulley screw	✓	✓
Bracket	Material	Aluminum	Steel
	Finish	Anodized	Painted
B-axle	Hollow axle	✓	✓
	Material	Stainless steel	Stainless steel
	Finish	-	-
B-axle 2	Hollow axle	-	-
	Material	Aluminum	Stainless steel
	Finish	Anodized	-
Bracket body	Material	Aluminum	Aluminum
	Finish	Painted	Painted
P-axle	Material	Steel	Steel
	Finish	-	-
Plate body	Material	GFRP	GFRP
	Finish	-	-
Outer link	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Inner link	Material	Aluminum	GFRP
	Finish	Painted	-
Outer plate	Material	Aluminum	Steel
	Finish	Anodized	Painted
Inner plate	Material	Aluminum	Steel
	Finish	Anodized	Painted
Cable fixing screw	Material	Stainless steel	Steel
	Finish	Passivation	Plated
Stroke adjusting screw	Material	Steel	Steel
	Finish	Plated	Plated
Average weight (g)		267	303
Note			-

# Front Derailleur

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

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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-RX400-F	BR-RX400-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-J-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR	SM-BH90-JK-SSR, SM-BH90-J-SSR
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
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)	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)
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-RX400 ST-RX600 BL-RX600	ST-RX400 ST-RX600 BL-RX600
Recommended disc brake rotor		RT-CL800	SM-RT800, RT-MT800	SM-RT800, RT-MT800	SM-RT800, RT-MT800	SM-RT64	SM-RT64
Oil		SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral	SHIMANO mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓	✓
Mount type		Flat mount	Flat mount	Flat mount	Flat mount	Flat mount	Flat mount
Piston		2	2	2	2	2	2
Piston material		Resin	Resin	Ceramic	Ceramic	Resin	Resin
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painting	Painted	Painted	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	4 mm	4 mm	4 mm	4 mm	4 mm	4 mm
	Anti loosen method	Screw fix pin+Snap ring	Screw fix pin+Snap ring	Screw fix pin+Snap ring	Screw fix pin+Snap ring	Screw fix pin+Snap ring	Screw fix pin+Snap ring
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

# 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
Chaining 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	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	✓	✓	✓	✓
2-PIECE CRANKSET		-	-	-	-	-	-
HOLLOWTECH crank arm		✓	✓	✓	✓	✓	✓
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BBR60	SM-BBR60	SM-BBR60	SM-BBR60	SM-BBR60	SM-BBR60
	Press-Fit	SM-BB72	SM-BB72	SM-BB72	SM-BB72	SM-BB72	SM-BB72
Axle length of BB-UN/ES (mm)		-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized (teeth)/Painted (body)	Anodized	Anodized (teeth)/Painted (body)	Anodized	Anodized (teeth)
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	-	Aluminum	-	Aluminum	-
	Finish	Anodized	-	Anodized	-	Anodized	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		710	644 (40T) 656 (42T)	710	644 (40T) 656 (42T)	710	644
Note							

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# 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
Chaining 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	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	-	-	-
2-PIECE CRANKSET		✓	✓	✓	✓	✓
HOLLOWTECH crank arm		✓	✓	-	-	-
OCTALINK		-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-
	Square	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-RS501	BB-RS501	BB-RS501	BB-RS501	BB-RS501
	Press-Fit	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB
Axle length of BB-UN/ES (mm)		-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Outer ring	Material	Aluminum	Steel	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Anodized	Anodized	Anodized (teeth)/Painted (body)
Middle ring	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Inner ring	Material	Aluminum	-	Aluminum	Aluminum	-
	Finish	Anodized	-	Anodized	Anodized	-
Outer/middle ring fixing bolt	Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
	Finish	-	-	-	-	-
Inner ring fixing screw	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		811	791 (38T) 812 (40T)	817	821	754
Note						

# Wheel (Disc Brake)

Series	GRX	GRX	SHIMANO	SHIMANO	GRX	GRX	
Model no.	WH-RX870-TL-F12-700C	WH-RX870-TL-R12-700C	WH-RX880-TL-F12-700C	WH-RX880-TL-R12-700C	WH-RX570-TL-F12-700C	WH-RX570-TL-F12-650B	
Model name	WH-RX870-TL	WH-RX870-TL	WH-RX880-TL	WH-RX880-TL	WH-RX570-TL	WH-RX570-TL	
Specification	F12-700C	R12-700C	F12-700C	R12-700C	F12-700C	F12-650B	
Color	1 Hub shell	Black	Black	Black	Black	Black	
	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	
	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	
	Internal width (mm)	25	25	25	25	21.6	
	External width (mm)	30.7	30.7	30.7	30.7	26	
	Rim joint	-	-	-	-	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	✓	✓
	Requires rim tape	✓	✓	✓	✓	✓	✓
	Number	24	24	24	24	24	24
Spokes	Straight pull	✓	✓	-	-	✓	✓
	Bladed	✓	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	-	-
	Diameter (mm)	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2	2
Axle fixing method	E-THRU	E-THRU	E-THRU	E-THRU	E-THRU	E-THRU	
Quick release skewer length (mm)	133	-	-	-	-	-	
	163	-	-	-	-	-	
	168	-	-	-	-	-	
Thru axle (length x inner diameter ; mm)	100 x 12	✓	-	✓	-	✓	
	142 x 12	-	✓	-	✓	-	
Spline type	MICRO SPLINE	-	-	-	✓	-	
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	✓	-	
	HG spline L (ROAD 12/11-speed)	-	✓	-	-	-	
	HG spline M (10/9/8-speed, MTB 11-speed)	-	-	-	-	-	
HG spline S (7-speed)	-	-	-	-	-		
Engagement type	-	Pawl ratchet	-	Direct engagement	-	-	
Bearing	Stainless ball	-	-	-	-	-	
	Cup	Polish	Polish	Polish	Polish	Polish	
	Cone	CBN+Polish	CBN+Polish	CBN+Polish	CBN+Polish	CBN	CBN
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓	
	CENTER LOCK mount cover option	-	-	-	-	-	
	140 mm disc brake rotor compatible	✓	✓	✓	✓	✓	
OPTBAL (2:1)	-	-	-	-	-	-	
D2 rim	-	-	-	-	-	-	
Digital adjustment system	-	-	-	-	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	-	Contact	-	Contact	-	
Internal grease sleeve	-	-	-	-	✓	✓	
Rim	Material	Carbon	Carbon	Carbon	Carbon	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	Black	Black	
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Black	Black	Black	Black	Black	
FREEHUB body	Material	-	Steel	-	Aluminum	-	
	Finish	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	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	
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	639	822	635	762 (HG-spline L2) 759 (MICRO SPLINE)	769	737	
Note							

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# Wheel (Disc Brake)

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

# Shift/Brake Lever (Hydraulic Disc Brake)

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

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# Rear Derailleur

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

# Front Derailleur

Series		GRX	GRX
Model no.		FD-RX825	FD-RX815-F
Color	1	Series color	Series color
	2	-	-
Front speeds		2	2
Rear speeds		12	11
Compatible chain		HG 12-speed	LINKGLIDE, HG 11-speed
Action	TOP SWING	-	-
	Down swing	✓	✓
Mount	Clamp band1	-	-
	Clamp band2	-	-
	Clamp band3	-	-
	Brazed-on	✓	✓
Chain line (mm)		47	47
Chainstay angle (deg.)		63-66	61-66
Top gear teeth		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			

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

## 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	-	
	Multi-bearing construction	-	-	-	-	-	-	
Brake lever	Brake hose (kit)	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH90-JK-SSR	
	Hose joint	Straight	Straight	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
	Recommended brake caliper	BR-R9170	BR-R9170	BR-R8070	BR-R8070	BR-R8070	BR-R8070	
	Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	
	Reach adjust	✓	✓	✓	✓	✓	✓	
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
	Funnel bleeding	✓	✓	✓	✓	✓	✓	
	Free stroke adjust	✓	✓	✓	✓	✓	✓	
SERVO WAVE	✓	✓	✓	✓	✓	✓		
Bracket	Material	Engineering composite	Engineering composite	Engineering composite	Engineering composite	Engineering composite	Engineering composite	
	Finish	-	-	-	-	-	-	
Brake lever	Material	CFRP	CFRP	Engineering composite	Engineering composite	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp band	Material	Titanium	Titanium	Steel	Steel	Steel	Steel	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
		Rear derailleurs side	OT-RS900	OT-RS900	OT-RS900	OT-RS900	OT-RS900	
	Inner cable	Polymer-coated cable	✓	✓	✓	✓	✓	✓
		OPTISLIC K	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
Steel	-	-	-	-	-	-		
Average weight (g)		538 (/pair)	538 (/pair)	554 (/pair)	554 (/pair)	568 (/pair)	568 (/pair)	
Note						For small hand.	For small hand.	

# Shift/Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	
Model no.		ST-R7120-R	ST-R7120-L	ST-R7020-R	ST-R7020-L	ST-R7025-R	ST-R7025-L	
Color	1	Series color	Series color	Silky black	Silky black	Silky black	Silky black	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shift lever	Front speeds	-	2	-	2	-	2	
	Rear speeds	12	-	11	-	11	-	
	Multi-bearing construction	-	-	-	-	-	-	
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	
	Hose joint		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-R7070	BR-R7070	BR-R7070
	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		Engineering composite	Engineering composite	Engineering composite	Engineering composite	Engineering composite	
	Finish		-	-	-	-	-	
Brake lever	Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish		Painted	Painted	Painted	Painted	Painted	
Clamp band	Material		Steel	Steel	Steel	Steel	Steel	
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-RS900	OT-RS900	OT-RS900	
	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLIC K	✓	✓	✓	✓	✓	
		SIL-TEC	-	-	-	-	-	
		Stainless	-	-	-	-	-	
Steel		-	-	-	-	-		
Average weight (g)		612 (/pair)	612 (/pair)	610 (/pair)	610 (/pair)	619 (/pair)	619 (/pair)	
Note		-	-	-	-	For small hand.	For small hand.	

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## 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	-	
	Multi-bearing construction	-	-	-	-	-	-	
Brake lever	Brake hose (kit)	SM-BH90-J-SSR, SM-BH90-JK-SSR	SM-BH90-J-SSR, SM-BH90-JK-SSR	SM-BH90-J-SSR, SM-BH90-JK-SSR	SM-BH90-J-SSR, SM-BH90-JK-SSR	SM-BH59-J-SS, SM-BH59-JK-SS	SM-BH59-J-SS, SM-BH59-JK-SS	
	Hose joint	Straight	Straight	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	White	White
	Recommended brake caliper	BR-4770	BR-4770	BR-4770	BR-4770	BR-RS785	BR-RS785	
	Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	
	Reach adjust	✓	✓	✓	✓	✓	✓	
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
	Funnel bleeding	✓	✓	✓	✓	✓	✓	
	Free stroke adjust	-	-	-	-	✓	✓	
SERVO WAVE	-	-	-	-	✓	✓		
Bracket	Material	Engineering composite	Engineering composite	Engineering composite	Engineering composite	Aluminum	Aluminum	
	Finish	-	-	-	-	Painted	Painted	
Brake lever	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	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
		Rear derailer side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
	Inner cable	Polymer-coated cable	-	-	-	-	✓	✓
		OPTISLIC K	✓	✓	✓	✓	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
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	
	Multi-bearing construction	-	-	
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	-	-	
Bracket	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Brake lever	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Clamp band	Material	Steel	Steel	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41
		Rear derailleur side	OT-SP41	OT-SP41
	Inner cable	Polymer-coated cable	-	-
		OPTISLIC K	✓	✓
		SIL-TEC	-	-
		Stainless	-	-
Steel	-	-		
Average weight (g)		-	-	
Note				

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# 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	*	*	- *	
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	-	-	-	-	-	-	
Bracket	Material	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP	
	Finish	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP	
Brake lever	Material	Carbon	Carbon	Carbon	CFRP	CFRP	CFRP	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
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	OT-SP41 sealed
	Inner cable	Polymer-coated cable	✓	✓	✓	✓	✓	✓
		OPTISLICK	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
Steel	-	-	-	-	-	-		
Average weight (g)		365 (/pair)	365 (/pair)	365 (/pair)	220	218	425 (/pair)	
Note					* Use bush	* Use bush	* Use bush	

# Shift/Brake Lever

Series		SHIMANO 105	SHIMANO 105	SHIMANO 105	TIAGRA	TIAGRA	TIAGRA	
Model no.		ST-R7000-R	ST-R7000-L	ST-5800	ST-4700-R	ST-4700-L	ST-4703-L	
Color	1	Silky black	Silky black	Black	Series color	Series color	Series color	
	2	Spark silver	Spark silver	Silver	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shift lever	Front speeds	-	2	2	-	2	3	
	Rear speeds	11	-	11	10	-	-	
	Multi-bearing construction	0	0	0	0	0	0	
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	-	-	-	-	-	-	
Bracket	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
	Finish	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
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	OT-SP41 sealed
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLIC K	✓	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-	-
		Stainless	✓	✓	✓	✓	✓	✓
Steel		-	-	-	-	-	-	
Average weight (g)		251	249	486 (/pair)	-	-	-	
Note		-	-					

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# Shift/Brake Lever

Series		SHIMANO	SORA	SORA	SORA	SHIMANO	CLARIS	
Model no.		ST-R460	ST-R3000-R	ST-R3000-L	ST-R3030-L	ST-R353	ST-R2000-R	
Color	1	Black	Series color	Series color	Series color	Black	Series color	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shift lever	Front speeds	2	-	2	3	3	-	
	Rear speeds	10	9	-	-	-	8	
	Multi-bearing construction	-	0	0	0	-	-	
Brake lever	Reach adjust	Spacer use	Screw	Screw	Screw	Spacer use	Screw	
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	
	SLR-EV	-	-	-	-	-	-	
	NEW SUPER SLR	✓	✓	✓	✓	✓	✓	
	SUPER SLR	-	-	-	-	-	-	
Bracket	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
	Finish	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
		Rear derailleur side	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLIC K	-	✓	✓	✓	-	✓
		SIL-TEC	-	-	-	-	✓	-
		Stainless	✓	✓	✓	✓	✓	-
Steel	-	-	-	-	-	✓		
Average weight (g)		-	-	-	-	-	-	
Note		SHIMANO logo Compatible with Caliper/Canti/Road disc brake Not compatible with V-BRAKE/Compact V-BRAKE				SHIMANO logo Compatible with Caliper/Canti/Road disc brake Not compatible with V-BRAKE/Compact V-BRAKE		

# Shift/Brake Lever

Series		CLARIS	CLARIS	CLARIS	CLARIS	CLARIS	
Model no.		ST-R2000-L	ST-R2030-L	ST-RS200-R	ST-RS200-L	ST-RS203-L	
Color	1	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	
Shift lever	Front speeds	2	3	-	2	3	
	Rear speeds	-	-	8	-	-	
	Multi-bearing construction	-	-	-	-	-	
Brake lever	Reach adjust	Screw	Screw	✓	✓	✓	
	Clamp band (mm)	23.8-24.2	23.8-24.2	22.2	22.2	22.2	
	SLR-EV	-	-	-	-	-	
	NEW SUPER SLR	✓	✓	-	-	-	
	SUPER SLR	-	-	✓	✓	✓	
Bracket	Material	GFRP	GFRP	Aluminum	Aluminum	Aluminum	
	Finish	GFRP	GFRP	Painted	Painted	Painted	
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	
Shift lever cable	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
		Rear derailleur side	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed
	Inner cable	Polymer-coated cable	-	-	-	-	-
		OPTISLIC K	✓	✓	✓	✓	✓
		SIL-TEC	-	-	-	-	-
		Stainless	-	-	-	-	-
Steel	✓	✓	✓	✓	✓		
Average weight (g)		-	-	-	-	-	
Note							

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# Shifter

Series		DURA-ACE	SHIMANO	SHIMANO	DURA-ACE	TIAGRA	TIAGRA	
Model no.		SL-B5R1	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 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	-	-	-	-	-	-	
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)		153 (/pair)	210 (/pair)	210 (/pair)	63 (/pair)	-	-	
Note			* Pull: single Push: double	* Pull: single Push: double				

# Shifter

ROAD

Series		TIAGRA	SHIMANO	DURA-ACE	SORA	SORA	SORA	
Model no.		SL-4603	SL-R460	SL-7700	SL-R3000-R	SL-R3000-L	SL-R3030-L	
Color	1	Series color	Black	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	Down tube shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	
Front speeds		3	2	2/3	-	2	3	
Rear speeds		-	10	9	9	-	-	
Compatible rear derailleur type		-	ROAD 10-speed	ROAD 9-speed	RD-R3000	FD-R3000	FD-R3030	
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	-	3	-	-	
Release function	MULTI RELEASE	-	-	-	-	-	-	
	INSTANT RELEASE	-	✓ (right side)	-	-	-	-	
	2-WAY RELEASE	✓	✓	-	✓	✓	✓	
OPTICAL GEAR DISPLAY	With	✓	✓	-	✓	✓	✓	
	With (removable)	-	-	-	-	-	-	
	Without	-	-	✓	-	-	-	
Multi-bearing construction		2	R:2 L:2	-	-	-	-	
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	Aluminum	
	Finish	Painted	Painted	Clear coated	Painted	Painted	Painted	
Release lever body	Material	Steel+Resin	Steel+Resin	-	Steel+Resin	Steel+Resin	Steel+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			SHIMANO logo					



# Shifter

Series		SHIMANO	SHIMANO	CLARIS	CLARIS	CLARIS	SHIMANO	
Model no.		SL-R350-R	SL-R353	SL-R2000-R	SL-R2000-L	SL-R2030-L	SL-R400	
Color	1	Black	Black	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Down tube shifter	
Front speeds		-	3	-	2	3	2/3	
Rear speeds		9	-	8	-	-	8	
Compatible rear derailleur type		ROAD 9-speed	-	ROAD 8-speed	-	-	ROAD 8-speed	
Mount type	Clamp band	✓	✓	✓	✓	✓	-	
	I-SPEC B	-	-	-	-	-	-	
	I-SPEC II	-	-	-	-	-	-	
Shift lever position adjust		-	-	-	-	-	-	
Shift lever cable adjust		✓	✓	✓	✓	✓	-	
Max. multiple shifts (main lever/rear)		3	-	3	-	-	-	
Release function	MULTI RELEASE	-	-	-	-	-	-	
	INSTANT RELEASE	-	-	-	-	-	-	
	2-WAY RELEASE	✓	✓	✓	✓	✓	-	
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	-	
	With (removable)	-	-	-	-	-	-	
	Without	-	-	-	-	-	✓	
Multi-bearing construction		-	-	-	-	-	-	
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	-	
	Finish	Painted	Painted	Painted	Painted	Painted	-	
Clamp screw	Material						-	
	Finish						-	
Main lever body	Material	Aluminum	Aluminum	Steel+Resin	Steel+Resin	Steel+Resin	Aluminum	
	Finish	Painted	Painted	-	-	-	Painted	
Release lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+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		SHIMANO logo	SHIMANO logo					

# 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		

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# Brake Lever

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

# Brake Lever

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

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# Brake (Hydraulic Disc Brake)

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

# Brake (Hydraulic Disc Brake)

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

## Brake (Hydraulic Disc Brake)

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

# Brake (Mechanical Disc Brake)

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

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# Brake (Caliper Brake)

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

# Brake (Caliper Brake)

Series		DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	SHIMANO	ULTEGRA
Model no.		BR-R9110-R5	BR-R8100	BR-R8110-F	BR-R8110-R5	BR-R5811-R	BR-R8000
Color	1	Series color	Series color	Series color	Series color	Black	Series color
	2	-	-	-	-	-	-
Type		Direct mount type	SLR-EV Dual Pivot	Direct mount type	Direct mount type	Direct mount type	SLR-EV Dual Pivot
Reach (mm)		51	51	51	51	51	51
Brake shoe	Standard	R55C4	R55C4	R55C4	R55C4	R55C4	R55C4
	Optional choice	R55C4 Carbon, R55C4-A Carbon, R55CT4	R55C4 Carbon, R55C4-A Carbon, R55CT4	R55C4 Carbon, R55C4-A Carbon, R55CT4	R55C4 Carbon, R55C4-A Carbon, R55CT4	R55C4 Carbon, R55C4-A Carbon, R55CT4	R55C4 carbon, R55C4-A carbon, R55CT4
Compatibility		SLR-EV	SLR-EV	SLR-EV	SLR-EV	SLR-EV	SLR-EV
Assembly pivot nut (mm)	Front (mm)	10.5	-	✓	-	-	✓
		12.5	-	✓	-	-	✓
		18.0	-	✓	-	-	✓
		27.0	-	✓	-	-	✓
		32.0	-	✓	-	-	✓
	Rear (mm)	10.5	-	✓	-	-	✓
Cartridge shoe holder		✓	✓	✓	✓	✓	✓
Tire guide bumpers		✓	✓	✓	✓	✓	✓
Quick release lever		✓	✓	✓	✓	-	✓
Shoe angle adjusting		✓	✓	✓	✓	✓	✓
Spring tension adjusting		-	-	-	-	✓	-
Maximum tire size		28C	28C	28C	28C	28C	28C
Rim width (mm)		20.8-28	20.8-28	20.8-28	20.8-28	20.8-28	20.8-28
Cartridge shoe holder	Material	Magnesium	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Anodized
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Anodized
Gate	Material	-	Aluminum	-	-	-	Aluminum
	Finish	-	Anodized	-	-	-	Anodized
Quick release lever	Material	Resin	Resin	Resin	Resin	-	Resin
	Finish	Painted	Painted	Painted	Painted	-	-
Titanium cable fixing screw		✓	-	-	-	-	-
Titanium pivot bolt		✓ (fixing screw)	-	-	-	-	-
Average weight (g)		148 (/pc)	182 (Front) 180 (Rear)	180 (/pc)	178 (/pc)	-	182 (Front) 178 (Rear)
Note						Need inline cable adjuster (SM-CB90) for cable adjusting and quick release feature.	

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# Brake (Caliper Brake)

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

# Brake (Caliper Brake)

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

## Brake (Caliper Brake)

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

## Brake (V-BRAKE)

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

## Brake (Cantilever Brake)

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

## Brake Cable

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

# Rear Derailleur

Series		DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.		RD-R9100-SS	RD-9000-SS	RD-R8000-SS	RD-R8000-GS	RD-6800-SS	RD-6800-GS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		11	11	11	11	11	11
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
RD construction	SHIMANO SHADOW RD	✓	-	✓	✓	-	-
	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	-	✓	-	-	✓	✓
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	✓*	-	✓*	✓*	-	-
	Riveted adapter (ROAD type)	-	-	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-	-	-
Cable adjuster		✓	✓	✓	✓	✓	✓
Max. front difference		16T	16T	16T	16T	16T	16T
Total capacity		35T	33T	35T	39T	33T	37T
Low sprocket	Max.	30T	28T	30T	34T	28T	32T
	Min.	25T	23T	25T	28T	23T	28T
Top sprocket	Max.	14T	14T	14T	12T	14T	12T
	Min.	11T	11T	11T	11T	11T	11T
Fluoroc 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	-	-	-	-	✓	✓
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	✓*	✓	✓*	✓*	-	-
	Riveted adapter (ROAD type)	-	-	-	-	-	-
	Riveted adapter (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		

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# Rear Derailleur

Series		TIAGRA	TIAGRA	SORA	SORA	SHIMANO	CLARIS
Model no.		RD-4700-SS	RD-4700-GS	RD-R3000-SS	RD-R3000-GS	RD-R350-GS	RD-R2000-SS
Color	1	Series color	Series color	Series color	Series color	Black	Series color
	2	-	-	-	-	-	-
Rear speeds		10	10	9	9	9	8
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 8/7/6-speed
RD construction	SHIMANO SHADOW RD	-	-	-	-	-	-
	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	✓	✓	✓	✓	✓	✓
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	-	-	-	-	-	-
	Riveted adapter (ROAD type)	-	-	-	-	-	-
	Riveted adapter (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
Fluoroc 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
B-axle 2	Finish	-	-	-	-	-	Plated
	Hollow axle	-	-	-	-	-	-
	Material	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Plate body	Material	Aluminum	Aluminum	Resin	Resin	Resin	Resin
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Painted	Painted	Painted	Painted
Cable fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated
Average weight (g)		-	-	-	-	-	-
Note						SHIMANO logo	

# Rear Derailleur

Series		CLARIS
Model no.		RD-R2000-GS
Color	1	Series color
	2	-
Rear speeds		8
Compatible chain		HG 8/7/6-speed
RD construction	SHIMANO SHADOW RD	-
	SHIMANO SHADOW RD+	-
	Double servo	✓
Mount	Direct attachment (conventional)	✓
	Direct mount	-
	Riveted adapter (ROAD type)	-
	Riveted adapter (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		

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# Front Derailleur

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

# Front Derailleur

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

# Front Derailleur

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

# Front Derailleur

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

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# Front Derailleur

Series		SHIMANO	CLARIS	CLARIS	CLARIS	CLARIS
Model no.		FD-R353-B	FD-R2000-F	FD-R2000-B	FD-R2030-F	FD-R2030-B
Color	1	Black	Series color	Series color	Series color	Series color
	2	-	-	-	-	-
Front speeds		3	2	2	3	3
Rear speeds		9	8	8	8	8
Compatible chain		HG 9-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	✓	✓	✓	✓	✓
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)		45	43.5	43.5	45	45
Chainstay angle (deg.)		63-66	61-66	61-66	63-66	63-66
Top gear teeth		50T	46-52T	46-52T	50T	50T
Total capacity		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	-	Steel	-	Steel
	Finish	Painted	-	Painted	-	Painted
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated
Cable fixing screw	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-
Note		SHIMANO logo				

# Crankset

Series		DURA-ACE	ULTEGRA	SHIMANO 105	SHIMANO	DURA-ACE	DURA-ACE
Model no.		FC-R9200	FC-R8100	FC-R7100	FC-RS520	FC-R9100	FC-9000
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	43.5	43.5
P.C.D. (mm)		110	110	110	110	110	110
Spider/gear arms		4	4	4	4	4	4
Chaining 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, 53-39T, 54-42T, 55-42T	50-34T, 52-36T, 52-38T, 53-39T, 54-42T, 55-42T
Q-factor (mm)		148	148	148	150	146	146
Crank arm length (mm)	160	✓	✓	✓	-	-	-
	165	✓	✓	✓	✓	✓	✓
	167.5	✓	-	-	-	✓	✓
	170	✓	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	✓	✓	✓
	175	✓	✓	✓	✓	✓	✓
	177.5	✓	-	-	-	✓	✓
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 or GFRP
	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)	-	614 (50-34T) 624 (52-36T) 626 (53-39T) 642 (54-42T) 650 (55-42T)	610 (50-34T) 618 (52-36T) 622 (52-38T) 618 (53-39T) 632 (54-42T) 639 (55-42T)
Note							

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# Crankset

Series		ULTEGRA	SHIMANO 105	SHIMANO	DURA-ACE	SHIMANO 105	SHIMANO 105
Model no.		FC-R8000	FC-R7000	FC-R5510	FC-7710	FC-5750	FC-5703
Color	1	Series color	Silky black	Black	Series color	Black	Black
	2	-	Spark silver	-	-	-	-
Rear speeds		11	11	11	1	10	10
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	1/2 x 1/8, 1/2 x 3/32	HG 10-speed	HG 10-speed (for 3x10s)
Chain line (mm)		43.5	43.5	43.5	42.5	43.5	45
P.C.D. (mm)		110	110	110	144	110	130/74
Spider/gear arms		4	4	4	5	5	5
Chainring combination		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)	50-34T	50-39-30T
Q-factor (mm)		146	146	150	136.3	146	154.76
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)	SM-BBR60	SM-BBR60	BB-R5501	BB-7710, BB-7700	SM-BB5700	SM-BB5700
	Press-Fit	SM-BB72-41B	SM-BB72-41B	BB-R5500-PB	-	SM-BB71-41B	SM-BB71-41B
Axle length of BB-UN/ES (mm)		-	-	-	109.5	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	-	Steel	Steel
	Finish	Plated	Plated	Plated	-	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum+CFRP or Aluminum (46-36T only)	Aluminum+GFRP	Aluminum+Resin	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	-	-	-	-	-	Aluminum
	Finish	-	-	-	-	-	Anodized
Inner ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
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
	Finish	-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		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)	716	831
Note							

# Crankset

Series		SHIMANO	TIAGRA	TIAGRA	SHIMANO	SORA	SORA
Model no.		FC-CX50	FC-4700	FC-4703	FC-RS400	FC-R3030	FC-R3030-CG
Color	1	Silver	Series color	Series color	Black	Series color	Series color
	2	Black	-	-	-	-	-
Rear speeds		10	10	10	10	9	9
Compatible chain		HG 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
Chain line (mm)		43.5	43.5	45	43.5	45	45
P.C.D. (mm)		110	110	110/74	110	110/74	130/74
Spider/gear arms		5	4	4	5	4	5
Chainring combination		46-36T	48-34T, 50-34T, 52-36T	50-39-30T	50-34T	50-39-30T	50-39-30T
Q-factor (mm)		150	150	158.8	150.3	158.8	158.8
Crank arm length (mm)	160	-	-	-	-	-	-
	165	-	✓	✓	-	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
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	BB-RS501
	Press-Fit	SM-BB71-41B	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	Aluminum
	Finish	Anodized	Anodized	Anodized	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	Aluminum/Resin (48-34T), Aluminum/GFRP (50-34T, 52-36T)	Aluminum+GFRP	Aluminum	Aluminum+Resin	Aluminum+Resin
	Finish	Anodized	Anodized+Painted (48-34T), Anodized (50-34T, 52-36T)	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	-	-	Aluminum	-	Steel	Steel
	Finish	-	-	Anodized	-	Painted	Painted
Inner ring	Material	Aluminum	Aluminum	Steel	Aluminum	Steel	Steel
	Finish	Anodized	Anodized	Plated	Anodized	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
	Finish	-	-	-	-	-	-
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		798	-	-	-	-	-
Note							w/ Chain guard spec.

# Crankset

Series		SORA	SORA	SHIMANO	CLARIS	CLARIS	CLARIS
Model no.		FC-R3000	FC-R3000-CG	FC-R345	FC-R2030	FC-R2030-CG	FC-R2000
Color	1	Series color	Series color	Silver	Series color	Series color	Series color
	2	-	-	Black	-	-	-
Rear speeds		9	9	9	8	8	8
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
Chain line (mm)		43.5	43.5	43.5	45	45	43.5
P.C.D. (mm)		110	110	110	110/74	110/74	110
Spider/gear arms		4	5	5	4	4	4
Chaining combination		50-34T	50-34T	50-34T	50-39-30T	50-39-30T	50-34T
Q-factor (mm)		150	150	152.2	158.8	158.8	150
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	✓	-	✓	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180	-	-	-	-	-	-
Optional chain guard	With chain guard	-	✓	✓	-	✓	-
	Without chain/bash guard	✓	-	✓	✓	-	✓
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		✓	✓	-	✓	✓	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	✓	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	-	✓	✓	✓
	OCTALINK	-	-	✓	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-R5501	BB-R5501	BB-ES300	BB-R5501	BB-R5501	BB-R5501
	Press-Fit	BB-R5500-PB	BB-R5500-PB	-	BB-R5500-PB	BB-R5500-PB	BB-R5500-PB
Axle length of BB-UN/ES (mm)		-	-	113	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	-	Steel	Steel	Steel
	Finish	Plated	Plated	-	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum+Resin	Aluminum+Resin	Aluminum	Steel+Resin	Steel+Resin	Steel+Resin
	Finish	Anodized	Anodized	Anodized	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	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.				

# Crankset

Series		CLARIS	SHIMANO
Model no.		FC-R2000-CG	FC-RS200
Color	1	Series color	Black
	2	-	-
Rear speeds		8	8
Compatible chain		HG 8/7/6-speed	HG 8/7/6-speed
Chain line (mm)		43.5	43.5
P.C.D. (mm)		110	110
Spider/gear arms		4	5
Chaining combination		50-34T	46-34T, 50-34T
Q-factor (mm)		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-UN300
	Press-Fit	BB-RS500-PB	-
Axle length of BB-UN/ES (mm)		-	MM110
Threaded bottom bracket shell width (mm)	68	✓	✓
	70	✓	✓
Crank arm	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Crank axle	Material	Steel	-
	Finish	Plated	-
Spider arm	Material	-	-
	Finish	-	-
Spider arm cover	Material	-	-
	Finish	-	-
Outer ring	Material	Steel+Resin	Steel
	Finish	Painted	Painted
Middle ring	Material	-	-
	Finish	-	-
Inner ring	Material	Steel	Steel
	Finish	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel
	Finish	-	-
Inner ring fixing screw	Material	Stainless steel	-
	Finish	-	-
Crank fixing screw included		✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		-	-
Note			

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# Crankset (Power Meter)

Series		DURA-ACE	DURA-ACE	ULTEGRA
Model no.		FC-R9200-P	FC-R9100-P	FC-R8100-P
Chaining combination		50-34T, 52-36T, 54-40T, w/o chainrings	50-34T, 52-36T, 53-39T, w/o chainrings	50-34T, 52-36T, w/o chainrings
Crank arm length (mm)	160	✓ *	-	✓ *
	165	✓ (50-34T, 52-36T, w/o chainrings)	✓ *	✓
	167.5	✓ *	✓ *	-
	170	✓	✓	✓
	172.5	✓	✓	✓
	175	✓	✓	✓
	177.5	✓ *	✓ *	-
Force measurement	180	-	✓ *	-
	Right side	✓	✓	✓
	Left side	✓	✓	✓
Number of strain sensor		24	24	24
Cadence measurement	Magnet	✓	✓	✓
	Accelerometer	-	-	-
Accuracy (%)		±1.5	±2	±2
LED for system status		✓	✓	✓
Number of control button		1	1	1
Zero offset	By control button	✓	✓	✓
	By device	✓	✓	✓
Active temperature compensation		✓	✓	✓
Battery	Type	Lithium ion	✓	✓
		Coin cell	-	-
	Life	270 h	300 h or longer	270 h
	Charging port	✓	✓	✓
Charging cable		EW-EC300	Included	EW-EC300
Firmware update by E-TUBE PROJECT		✓	✓	✓
Di2 connectivity wired	Di2 shifting	-	-	-
	Di2 shifting	-	-	-
Di2 connectivity wireless	Bluetooth® LE	Cycling power	✓	✓
		ANT+ Bicycle power	✓	✓
	Bluetooth® LE custom (*1)	Adjust mode information	-	-
		Di2 battery level	-	-
		Gear position	-	-
		SHIMANO E-BIKE SYSTEMS data items (*3)	-	-
		Compatible with E-TUBE RIDE	✓	✓
		Compatible with E-TUBE PROJECT	✓	✓
	ANT private (*2)	Adjust mode information	-	-
		Di2 battery level	-	-
		Gear position	-	-
		SHIMANO E-BIKE SYSTEMS data items (*3)	-	-
SD50 port (pcs)		0	0	0
SD300 port (pcs)		0	0	0
SD50 connector (pcs)		0	0	0
SD300 connector (pcs)		0	0	0
Average weight (g) (170 mm, w/o bottom bracket)		745 (50-34T) 752 (52-36T) 774 (54-40T)	685 (50-34T) 695 (52-36T) 696 (53-39T)	758 (50-34T) 769 (52-36T)
<p>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.</p>		Crankset specifications not listed here are the same as FC-R9200	Crankset specifications not listed here are the same as FC-R9100	Crankset specifications not listed here are the same as FC-R8100
		* w/o chainrings	* w/o chainrings	* w/o chainrings
		Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh	Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh	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			

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# Bottom Bracket

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

# Cassette

ROAD

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* <sup>T</sup> -21*-24*-27*-30*	11-12-13-14-15-16-17-19-21-24-27-30T	11-12-13-14-15-16-17-19-21-24-27-30T
	2	11-12-13-14-15-17-19* <sup>T</sup> -21*-24*-27*-30*-34	11-12-13-14-15-17-19-21-24-27-30-34T	11-12-13-14-15-17-19-21-24-27-30-34T
	3	-	-	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	✓	✓	✓
	HG spline L (ROAD 12/11-speed)	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed)	-	-	-
Carbon spider arm	HG spline S (7-speed)	-	-	-
	QTY (pcs)	-	-	-
Aluminum spider arm	Finish	-	-	-
	QTY (pcs)	2	2	2
Steel spider arm	Finish	Anodized	-	-
	QTY (pcs)	-	-	-
Titanium gear	Finish	-	-	-
	QTY (pcs)	5 (11-30T), 6 (11-34T)	0	0
Aluminum gear	Finish	Titanium	-	-
	QTY (pcs)	0	0	0
Steel gear	Finish	-	-	-
	QTY (pcs)	7 (11-30T), 6 (11-34T)	12	12
Lock ring	Finish	Nickel plated	Nickel plated	Nickel plated
	Material	Aluminum	Aluminum	Aluminum
Average weight (g)		223 (11-30T) 253 (11-34T)	291 (11-30T) 345 (11-34T)	291 (11-30T) 345 (11-34T)
Note				

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

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# Cassette

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

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

# Cassette

ROAD

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/CN-HG500	HG 9-speed
Combination name (Group name)		11-25T, 12-28T, 11-32T, 11-34T	11-30T (bQ), 12-25T, 13-25T, 14-25T
Combination * Titanium gear	1	11-12-13-14-15-17-19-21-23-25T	11-12-14-16-18-20-23-26-30T (bQ)
	2	12-13-14-15-17-19-21-23-25-28T	12-13-14-15-17-19-21-23-25T
	3	11-12-14-16-18-20-22-25-28-32T	13-14-15-16-17-19-21-23-25T
	4	11-13-15-17-19-21-23-26-30-34T	14-15-16-17-18-19-21-23-25T
	5	-	-
	6	-	-
	7	-	-
Spline type	MICRO SPLINE	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-
	HG spline L (ROAD 12/11-speed)	-	-
	HG spline M (10/9/8-speed, MTB 11-speed)	✓	✓
	HG spline S (7-speed)	-	-
Carbon spider arm	QTY (pcs)	-	-
	Finish	-	-
Aluminum spider arm	QTY (pcs)	-	-
	Finish	-	-
Steel spider arm	QTY (pcs)	-	-
	Finish	-	-
Titanium gear	QTY (pcs)	0	0
	Finish	-	-
Aluminum gear	QTY (pcs)	0	0
	Finish	-	-
Steel gear	QTY (pcs)	10	9
	Finish	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel
	Finish	Nickel plated	Nickel plated
Average weight (g)		-	-
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## Front Hub (Rim/Disc Brake)

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

# Front Hub (Rim/Disc Brake)

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

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# 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)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		✓	✓	✓	✓	-	✓
Digital adjustment system		✓	✓	-	-	-	-
Bearing	Stainless ball	✓	-	-	-	-	-
	Cup	CBN	Polish	Polish	Polish	CBN	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
FREEHUB body	Material	Titanium	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Steel
	Finish	Anodized	Anodized	-	-	Anodized	-
Quick release lever	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
	Finish	Anodized	Anodized	Anodized	-	-	Painted
	Color	9000SLV	Black	Black	-	-	Black
Quick release housing	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
	Finish	Anodized	Anodized	Anodized	-	-	Painted
Quick release nut	Material	Aluminum	Resin	Resin	-	-	Resin
	Finish	Anodized	Black	Black	-	-	Black
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Radial lacing		-	-	-	-	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		247	330	368	361	302	-
Note		* Can be used for 10-speed with an additional spacer ** Aero spoke hole available *** Flange Distance:56.5, Dish:9.95(only for 28H), **** Super Finishing.		* Can be used for 10-speed with an additional spacer	* Can be used for 10-speed with an additional spacer	* Can be used for 10-speed with an additional spacer.	* Can be used for 10-speed with an additional spacer. For disc brake/ CENTER LOCK mount

# 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 *	10/9/8
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)	-	✓
	HG spline S (7-speed)	-	-
Seal	Hub	Contact	Contact
	FREEHUB body	Contact	Contact
Internal grease sleeve		✓	✓
Digital adjustment system		-	-
Bearing	Stainless ball	-	-
	Cup	Polish	-
	Cone	CBN	-
FREEHUB body	Material	Steel	Steel
	Finish	-	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Axle	Material	Steel	Steel
	Finish	-	-
Quick release lever	Material	-	Aluminum
	Finish	-	Painted
	Color	-	Black
Quick release housing	Material	-	Steel
	Finish	-	Painted
Quick release nut	Material	-	Resin
	Finish	-	Black
Disc brake rotor lock ring	Material	-	-
	Finish	-	-
Radial lacing		-	-
Average weight (g) (w/o axle, quick release nor lock ring)		-	-
Note		* Can be used for 10-speed with an additional spacer	

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# Wheel (Disc Brake)

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.	WH-R9270-C60-HR-TU-F	WH-R9270-C60-HR-TU-R	WH-R9270-C60-HR-TL-F	WH-R9270-C60-HR-TL-R	WH-R9270-C50-TU-F	WH-R9270-C50-TU-R
Model name	WH-R9270-C60-HR-TU	WH-R9270-C60-HR-TU	WH-R9270-C60-HR-TL	WH-R9270-C60-HR-TL	WH-R9270-C50-TU	WH-R9270-C50-TU
Specification	F	R	F	R	F	R
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	-	-
	2 Hub shell	-	-	-	-	-
	2 Quick release	-	-	-	-	-
Front/Rear	Front	Rear	Front	Rear	Front	Rear
Brake type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds	-	12	-	12	-	12
O.L.D. (mm)	100	142	100	142	100	142
Wheel size	700C	700C	622 x 21C (700C)	622 x 21C (700C)	700C	700C
Tire	Type	Tubular	Tubular	Tubeless	Tubeless	Tubular
	Recommended size	25-28" - 32-28"	25-28" - 32-28"	25-622 - 32-622	25-622 - 32-622	25-28" - 32-28"
Rim	Height (mm)	60	60	60	60	50
	Internal width (mm)	-	-	21	21	-
	External width (mm)	28	28	28	28	28
	Rim joint	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
Spokes	Requires rim tape	-	-	✓	✓	-
	Number	24	24	24	24	24
	Straight pull	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓
Diameter (mm)	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.5-2.0	2.0-1.5-2.0
Axle fixing method	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-
	163	-	-	-	-	-
	168	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-
	100 x 12	✓	-	✓	-	✓
	142 x 12	-	✓	-	✓	-
Spline type	MICRO SPLINE	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	✓	-	✓	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed)	-	-	-	-	-
HG spline S (7-speed)	-	-	-	-	-	-
Engagement type	-	Direct engagement	-	Direct engagement	-	Direct engagement
Bearing	Stainless ball	✓	✓	✓	✓	✓
	Cup	CBN	CBN	CBN	CBN	CBN
	Cone	CBN	CBN	CBN	CBN	CBN
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-	-
	140 mm disc brake rotor compatible	✓	✓	✓	✓	✓
OPTBAL (2:1)	✓	✓	✓	✓	✓	✓
D2 rim	✓	✓	✓	✓	✓	✓
Digital adjustment system	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-
Internal grease sleeve	-	-	-	-	-	-
Rim	Material	Carbon	Carbon	Carbon	Carbon	Carbon
	Finish	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Series color	Series color	Series color	Series color	Series color
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Series color	Series color	Series color	Series color	Series color
FREEHUB body	Material	-	Aluminum	-	Aluminum	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Compatible spoke protector	-	CP-WR92C	-	CP-WR92C	-	CP-WR92A
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	667	770	751	858	610	723
Note						

# Wheel (Disc Brake)

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.	WH-R9270-C50-TL-F	WH-R9270-C50-TL-R	WH-R9270-C36-TU-F	WH-R9270-C36-TU-R	WH-R9270-C36-TL-F	WH-R9270-C36-TL-R
Model name	WH-R9270-C50-TL	WH-R9270-C50-TL	WH-R9270-C36-TU	WH-R9270-C36-TU	WH-R9270-C36-TL	WH-R9270-C36-TL
Specification	F	R	F	R	F	R
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	-	-
	2 Hub shell	-	-	-	-	-
	2 Quick release	-	-	-	-	-
Front/Rear	Front	Rear	Front	Rear	Front	Rear
Brake type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds	-	12	-	12	-	12
O.L.D. (mm)	100	142	100	142	100	142
Wheel size	622 x 21C (700C)	622 x 21C (700C)	700C	700C	622 x 21C (700C)	622 x 21C (700C)
Tire	Type	Tubeless	Tubeless	Tubular	Tubular	Tubeless
	Recommended size	25-622 - 32-622	25-622 - 32-622	25-28" - 32-28"	25-28" - 32-28"	25-622 - 32-622
Rim	Height (mm)	50	50	36	36	36
	Internal width (mm)	21	21	-	-	21
	External width (mm)	28	28	28	28	28
	Rim joint	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
Spokes	Requires rim tape	✓	✓	-	-	✓
	Number	24	24	24	24	24
	Straight pull	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓
Diameter (mm)	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0	2.0-1.5-2.0
Axle fixing method	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-
	163	-	-	-	-	-
	168	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-
	100 x 12	✓	-	✓	-	✓
	142 x 12	-	✓	-	✓	✓
Spline type	MICRO SPLINE	-	-	-	-	-
	HG spline I2 (ROAD 12-speed dedicated)	-	✓	-	✓	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed)	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-
Engagement type	-	Direct engagement	-	Direct engagement	-	Direct engagement
Bearing	Stainless ball	✓	✓	✓	✓	✓
	Cup	CBN	CBN	CBN	CBN	CBN
	Cone	CBN	CBN	CBN	CBN	CBN
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-	-
	140 mm disc brake rotor compatible	✓	✓	✓	✓	✓
OPTBAL (2:1)	✓	✓	✓	✓	✓	✓
D2 rim	✓	✓	✓	✓	✓	✓
Digital adjustment system	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	-
Internal grease sleeve	-	-	-	-	-	-
Rim	Material	Carbon	Carbon	Carbon	Carbon	Carbon
	Finish	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Series color	Series color	Series color	Series color	Series color
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Series color	Series color	Series color	Series color	Series color
FREEHUB body	Material	-	Aluminum	-	Aluminum	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Compatible spoke protector	-	CP-WR92A	-	CP-WR92A	-	CP-WR92A
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring) Note	674	787	522	632	620	730

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BR

BC

RD

FD

FC

FC

BB

BB

CS

HB

FH

WH

WH

HP

ST

ST

SW

RD

FD

SMAD



# Wheel (Disc Brake)

Series	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model no.	WH-R8170-C60-TL-F	WH-R8170-C60-TL-R	WH-R8170-C50-TL-F	WH-R8170-C50-TL-R	WH-R8170-C36-TL-F	WH-R8170-C36-TL-R
Model name	WH-R8170-C60-TL	WH-R8170-C60-TL	WH-R8170-C50-TL	WH-R8170-C50-TL	WH-R8170-C36-TL	WH-R8170-C36-TL
Specification	F	R	F	R	F	R
Color	1 Hub shell	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	-	-
	2 Hub shell	-	-	-	-	-
	2 Quick release	-	-	-	-	-
Front/Rear	Front	Rear	Front	Rear	Front	Rear
Brake type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds	-	12/11	-	12/11	-	12/11
O.L.D. (mm)	100	142	100	142	100	142
Wheel size	622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)	622 x 21C (700C)
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	25-622 - 32-622	25-622 - 32-622	25-622 - 32-622	25-622 - 32-622	25-622 - 32-622
Rim	Height (mm)	60	60	50	50	36
	Internal width (mm)	21	21	21	21	21
	External width (mm)	28	28	28	28	28
	Rim joint	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
	Requires rim tape	✓	✓	✓	✓	✓
Spokes	Number	24	24	24	24	24
	Straight pull	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓
	Diameter (mm)	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0
Axle fixing method	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-
	163	-	-	-	-	-
	168	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-
	100 x 12	✓	-	✓	-	✓
	142 x 12	-	✓	-	✓	-
Spline type	MICRO SPLINE	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	✓	-	✓	-
	HG spline M (10/9/8-speed, MTB 11-speed)	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-
Engagement type	-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet
Bearing	Stainless ball	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish
	Cone	CBN	CBN	CBN	CBN	CBN
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-	-
	140 mm disc brake rotor compatible	✓	✓	✓	✓	✓
OPTBAL (2:1)	-	✓	-	✓	-	✓
D2 rim	✓	✓	✓	✓	✓	✓
Diigital adjustment system	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	Contact	Contact	Contact
Internal grease sleeve	✓	✓	✓	✓	✓	✓
Rim	Material	Carbon	Carbon	Carbon	Carbon	Carbon
	Finish	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Series color	Series color	Series color	Series color	Series color
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Series color	Series color	Series color	Series color	Series color
FREEHUB body	Material	-	Steel	-	Steel	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Compatible spoke protector	-	CP-WR81A	-	CP-WR81A	-	CP-WR81A
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring) Note	738	911	698	872	657	831

# Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	DURA-ACE	DURA-ACE
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-R9170-C60-TU-R12
Model name	WH-RS710	WH-RS710	WH-RS710	WH-RS710	WH-R9170-C60-TU	WH-R9170-C60-TU
Specification	C32-TL-F	C32-TL-R	C46-TL-F	C46-TL-R	F12	R12
Color	1 Hub shell	Black	Black	Black	Black	Series color
	1 Quick release	-	-	-	-	-
	2 Hub shell	-	-	-	-	-
	2 Quick release	-	-	-	-	-
Front/Rear	Front	Rear	Front	Rear	Front	Rear
Brake type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds	-	12/11	-	12/11	-	11/10 *
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)	700C	700C
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubular
	Recommended size	25-622 - 32-622	25-622 - 32-622	25-622 - 32-622	25-622 - 32-622	23-28" - 28-28"
Rim	Height (mm)	32	32	46	46	60
	Internal width (mm)	21	21	21	21	-
	External width (mm)	28	28	28	28	28
	Rim joint	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
	Requires rim tape	✓	✓	✓	✓	-
Spokes	Number	24	24	24	24	24
	Straight pull	-	-	-	-	✓
	Bladed	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓
Diameter (mm)	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.6-2.0	2.0-1.8-2.0	2.0-1.8-2.0
Axle fixing method	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	133	-	-	-	-	-
	163	-	-	-	-	-
	168	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-
	100 x 12	✓	-	✓	-	✓
	142 x 12	-	✓	-	✓	✓
Spline type	MICRO SPLINE	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	✓	-	✓	✓
	HG spline M (10/9/8-speed, MTB 11-speed)	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-
Engagement type	-	Pawl ratchet	-	Pawl ratchet	-	-
Bearing	Stainless ball	-	-	-	✓	✓
	Cup	Polish	Polish	Polish	CBN	CBN
	Cone	CBN	CBN	CBN	CBN	CBN
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
	FREEHUB body	-	Contact	Contact	Contact	Contact
Internal grease sleeve	-	-	-	-	✓	✓
Rim	Material	Carbon	Carbon	Carbon	Carbon	Carbon
	Finish	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black	Black	Black	Black	Silver
FREEHUB body	Material	-	Steel	-	Steel	Titanium
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Compatible spoke protector	-	CP-WH24(11-28,30,32,34T) CP-WR71A(11-36T)	-	CP-WH24(11-28,30,32,34T) CP-WR71A(11-36T)	-	CP-W1460
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	665	839	719	893	678	829
Note						* The adapter is needed to use 10-speed cassette

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BR

BC

RD

FD

FC

FC

BB

BB

CS

HB

FH

WH

WH

HP

ST

ST

SW

RD

FD

SMAD

# Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-RS370-TL-F12	WH-RS370-TL-R12	WH-RS171-CL-F12-700C	WH-RS171-CL-R12-700C	WH-RX010-CL-F	WH-RX010-CL-R
Model name		WH-RS370-TL	WH-RS370-TL	WH-RS171-CL	WH-RS171-CL	WH-RX010-CL	WH-RX010-CL
Specification		F12	R12	F12-700c	R12-700c	F	R
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 *	-	11/10 *	-	11/10 *
O.L.D. (mm)		100	142	100	142	100	135
Wheel size		622 x 19C (700C)	622 x 19C (700C)	622 x 19C (700C)	622 x 19C (700C)	622 x 17C (700C)	622 x 17C (700C)
Tire	Type	Tubeless	Tubeless	Clincher	Clincher	Clincher	Clincher
	Recommended size	28-622 - 45-622	28-622 - 45-622	28-622 - 42-622	28-622 - 42-622	25-622 - 38-622	25-622 - 38-622
Rim	Height (mm)	19	19	19	19	24	24
	Internal width (mm)	19	19	19	19	-	-
	External width (mm)	23.4	23.4	24.6	24.6	23	23
	Rim joint	Welded	Welded	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓	✓	✓	✓	✓	✓
Spokes	Number	24	24	28	28	28	28
	Straight pull	✓	✓	-	-	-	-
	Bladed	-	-	-	-	-	-
	Butted	-	-	-	-	-	-
	Diameter (mm)	2.0-1.8-2.0	2.0-1.8-2.0	2	2	2	2
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release	Quick release
Quick release skewer length (mm)	133	-	-	-	-	✓	-
	163	-	-	-	-	-	-
	168	-	-	-	-	-	✓
Thru axle (length x inner diameter ; mm)	100 x 8	-	-	-	-	-	-
	100 x 12	✓	-	✓	-	-	-
	142 x 12	-	✓	-	✓	-	-
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	✓	-	✓	-	✓
	HG spline M (10/9/8-speed, MTB 11-speed)	-	-	-	-	-	-
	HG spline S (7-speed)	-	-	-	-	-	-
Engagement type		-	-	-	Pawl ratchet	-	Pawl ratchet
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-	-	-
	140 mm disc brake rotor compatible	✓	✓	✓	✓	✓	✓
OPTBAL (2:1)		-	-	-	-	-	-
D2 rim		-	-	-	-	-	-
Digital adjustment system		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		✓	✓	✓	✓	✓	✓
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized (black)	Anodized (black)
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Brass	Brass	Brass	Brass
	Finish	Black	Black	Silver	Silver	Silver	Silver
FREEHUB body	Material	-	Steel	-	Steel	-	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Steel	Aluminum	Aluminum	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	-	-	Aluminum	Aluminum
	Finish	-	-	-	-	Painted	Painted
Quick release housing	Material	-	-	-	-	Steel	Steel
	Finish	-	-	-	-	Painted Resin	Painted Resin
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	Black	Black
Compatible spoke protector		-	CP-FH08 (23T-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 11/10-speed)	-	CP-FH08 (23T-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 11/10-speed)	-	CP-FH08/CP-WH12 (11-speed), CP-FH40/CP-FH41/CP-WH12 (10-speed)
Reflector	JIS/CPSC	CATEYE RR-550-WUWV SW	CATEYE RR-550-WUWV SW	CATEYE RR-550-WUWV SW	CATEYE RR-550-WUWV SW	CATEYE RR-550-WUWV SW	CATEYE RR-550-WUWV 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)		890	1090	897	1098	982	1177
Note		-	* The adapter is needed to use 10-speed cassette	-	* The adapter is needed to use 10-speed cassette	-	* The adapter is needed to use 10-speed cassette

# Wheel (Rim Brake)

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

# Wheel (Rim Brake)

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	
Model no.	WH-R9100-C60-TU-F	WH-R9100-C60-TU-R	WH-R9100-C40-TU-F	WH-R9100-C40-TU-R	WH-R5700-C30-TL-F	WH-R5700-C30-TL-R	
Model name	WH-R9100-C60-TU	WH-R9100-C60-TU-R	WH-R9100-C40-TU-F	WH-R9100-C40-TU-R	WH-R5700-C30-TL	WH-R5700-C30-TL	
Specification	F	R	F	R	F	R	
Color	1 Hub shell	Series color	Series color	Series color	Silver	Silver	
	1 Quick release	Series color	Series color	Series color	Silver	Silver	
	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	-	11/10 *	-	11/10 *	-	11/10 *	
O.L.D. (mm)	100	130	100	130	100	130	
Wheel size	700C	700C	700C	700C	622 x 15C (700C)	622 x 15C (700C)	
Tire	Type	Tubular	Tubular	Tubular	Tubular	Tubeless	
	Recommended size	23-28" - 28-28"	23-28" - 28-28"	23-28" - 28-28"	23-28" - 28-28"	23-622 - 32-622	23-622 - 32-622
Rim	Height (mm)	60	60	37	37	24	31
	Internal width (mm)	-	-	-	-	15	15
	External width (mm)	28	28	28	28	20.8	20.8
	Rim joint	-	-	-	-	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	✓	-	✓
	Requires rim tape	-	-	-	-	✓	✓
Spokes	Number	16	21	16	21	16	21
	Straight pull	✓	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓	✓
	Diameter (mm)	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.8-2.0	2.0-1.5-2.0	2.0-1.8-2.0
Axle fixing method	Quick release	Quick release	Quick release	Quick release	Quick release	Quick release	
Quick release skewer length (mm)	133	✓	-	✓	✓	-	
	163	-	✓	-	✓	✓	
	168	-	✓	-	✓	✓	
Thru axle (length x inner diameter, mm)	100 x 12	-	-	-	-	-	
	142 x 12	-	-	-	-	-	
Spline type	MICRO SPLINE	-	-	-	-	-	
	HG spline L2 (ROAD 12-speed dedicated)	-	✓	-	✓	-	
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	
	HG spline M (10/9/8-speed, MTB 11-speed)	-	-	-	-	-	
HG spline S (7-speed)	-	-	-	-	-	-	
Engagement type	-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet	
Bearing	Stainless ball	✓	✓	✓	✓	-	
	Cup	CBN	CBN	CBN	CBN	CBN	
	Cone	CBN	CBN	CBN	CBN	CBN	
Disc mount	CENTER LOCK	-	-	-	-	-	
	CENTER LOCK mount cover option	-	-	-	-	-	
	140 mm disc brake rotor compatible	-	-	-	-	-	
OPTBAL (2:1)	-	✓	-	✓	-	✓	
D2 rim	✓	✓	✓	✓	-	-	
Digital adjustment system	✓	✓	✓	✓	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	-	Contact	-	Contact	Contact	
Internal grease sleeve	✓	✓	✓	✓	✓	✓	
Rim	Material	Carbon	Carbon	Carbon	Carbon	Carbon+AL	
	Finish	Painted	Painted	Painted	Painted	Painted	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	Black	Black	
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Silver	Silver	Silver	Silver	Black	
FREEHUB body	Material	-	Titanium (rear)	-	Titanium (rear)	Steel	
	Finish	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Quick release housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Quick release nut	Material	Aluminum	Aluminum	Aluminum	Aluminum	Resin	
	Finish	Series color	Series color	Series color	Series color	Black	
Compatible spoke protector	-	CP-W124	-	CP-W124	-	CP-W124	
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	666	830	637	747	616	924	
Note	-	* The adapter is needed to use 10-speed cassette	-	* The adapter is needed to use 10-speed cassette	-	* The adapter is needed to use 10-speed cassette	

# Wheel (Rim Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-RS500-TL-F	WH-RS500-TL-R	WH-RS300-CL-F	WH-RS300-CL-R	WH-RS330-CL-F	WH-RS330-CL-R
Model name	WH-RS500-TL	WH-RS500-TL	WH-RS300-CL	WH-RS300-CL	WH-RS330-CL	WH-RS330-CL
Specification	F	R	F	R	F	R
Color	1 Hub shell	Silver	Silver	Black	Black	Black
	1 Quick release	Silver	Silver	Black	Black	Black
	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	-	11/10 *	-	11/10 *	-	11/10 *
O.L.D. (mm)	100	130	100	130	100	130
Wheel size	622 x 15C (700C)	622 x 15C (700C)	622 x 17C (700C)	622 x 17C (700C)	622 x 15C (700C)	622 x 15C (700C)
Tire	Type	Tubeless	Tubeless	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
Rim	Height (mm)	24	24	24	24	30
	Internal width (mm)	15	15	17	17	15
	External width (mm)	20.8	20.8	23.2	23.2	20.8
	Rim joint	Welded	Welded	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	✓	✓	-	-	-
	OFFSET RIM	-	✓	-	✓	-
	Requires rim tape	-	-	18-622	18-622	✓
Spokes	Number	16	20	16	20	21
	Straight pull	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓
	Diameter (mm)	2.0-1.5-2.0	2.0-1.8-2.0	2	2	2
Axle fixing method	Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
Quick release skewer length (mm)	133	✓	-	✓	✓	-
	163	-	✓	-	✓	✓
	168	-	✓	-	✓	✓
Thru axle (length x inner diameter, mm)	100 x 12	-	-	-	-	-
	142 x 12	-	-	-	-	-
Spline type	MICRO SPLINE	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	✓	-	✓	✓
	HG spline M (10/9/8-speed, MTB 11-speed)	-	-	-	-	-
HG spline S (7-speed)	-	-	-	-	-	
Engagement type	-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet
Bearing	Stainless ball	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish
	Cone	CBN+Polish	CBN+Polish	CBN	CBN	CBN+Polish
Disc mount	CENTER LOCK	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-
	140 mm disc brake rotor compatible	-	-	-	-	-
OPTBAL (2:1)	-	-	-	-	-	✓
D2 rim	-	-	-	-	-	-
Digital adjustment system	✓	✓	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	Contact
Internal grease sleeve	✓	✓	✓	✓	✓	✓
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Black	Black	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black	Black	Black anodized	Black anodized	Black
FREEHUB body	Material	-	Steel	-	Steel	Steel
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	-
Axle	Material	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Anodized	-	-	-
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release nut	Material	Resin	Resin	Resin	Resin	Resin
	Finish	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
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	705	944	770	1057	875	1176
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

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SMAD

# Wheel (Rim Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-RS100-CL-F	WH-RS100-CL-R	WH-RS010-CL-F	WH-RS010-CL-R	WH-R501-A-CL-F	WH-R501-A-CL-R
Model name	WH-RS100-CL	WH-RS100-CL	WH-RS010-CL	WH-RS010-CL	WH-R501-A-CL	WH-R501-A-CL
Specification	F	R	F	R	F	R
Color	1 Hub shell	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	Black	Black
	2 Hub shell	-	-	-	Silver	Silver
	2 Quick release	-	-	Black	Black	Black
Front/Rear	Front	Rear	Front	Rear	Front	Rear
Brake type	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake	Rim brake
Rear speeds	-	11/10 *	-	11/10 *	-	10/9/8
O.L.D. (mm)	100	130	100	130	100	130
Wheel size	622 x 17C (700C)	622 x 17C (700C)	622 x 15C (700C)	622 x 15C (700C)	622 x 15C (700C)	622 x 15C (700C)
Tire	Type	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
Rim	Height (mm)	24	24	24	24	24
	Internal width (mm)	17	17	15	15	15
	External width (mm)	23.2	23.2	20.8	20.8	20.8
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	✓	-	✓	-
	Requires rim tape	18-622	18-622	✓	✓	✓
Spokes	Number	20	24	20	24	20
	Straight pull	-	-	-	-	-
	Bladed	-	-	-	-	✓
	Butted	-	-	-	-	✓
	Diameter (mm)	2	2	2	2	2
Axle fixing method	Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
Quick release skewer length (mm)	133	✓	-	✓	-	✓
	163	-	✓	-	✓	-
	168	-	✓	-	✓	-
Thru axle (length x inner diameter, mm)	100 x 12	-	-	-	-	-
	142 x 12	-	-	-	-	-
Spline type	MICRO SPLINE	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	✓	-	✓	-
	HG spline M (10/9/8-speed, MTB 11-speed)	-	-	-	-	✓
HG spline S (7-speed)	-	-	-	-	-	
Engagement type	-	Pawl ratchet	-	Pawl ratchet	-	Pawl ratchet
Bearing	Stainless ball	-	-	-	-	-
	Cup	Polish	Polish	Polish	Polish	Polish
	Cone	CBN	CBN	CBN	CBN	CBN
Disc mount	CENTER LOCK	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-
	140 mm disc brake rotor compatible	-	-	-	-	-
OPTBAL (2:1)	-	-	-	-	-	
D2 rim	-	-	-	-	-	
Digital adjustment system	-	-	-	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	-	Contact	Contact
Internal grease sleeve	-	-	-	-	-	
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black	Black	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass
	Finish	Silver	Silver	Silver	Silver	Silver
FREEHUB body	Material	-	Steel	-	Steel	Steel
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Quick release housing	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Black	Black	Painted	Painted	Painted
Quick release nut	Material	Resin	Resin	Resin	Resin	Resin
	Finish	Black	Black	Black	Black	Black
Compatible spoke protector	-	CP-WH24 CP-FH53 (34T)	-	CP-WH24 CP-FH53 (34T)	-	CP-FH06 CP-FH31 CP-FH46 CP-WH24
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	827	1105	818	1102	820	1069
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
Model no.		WH-R501-CL-F	WH-R501-CL-R
Model name		WH-R501-CL	WH-R501-CL
Specification		F	R
Color	1 Hub shell	Black	Black
	1 Quick release	Black	Black
	2 Hub shell	Silver	Silver
	2 Quick release	Black	Black
Front/Rear		Front	Rear
Brake type		Rim brake	Rim brake
Rear speeds		-	10/9/8
O.L.D. (mm)		100	130
Wheel size		622 x 15C (700C)	622 x 15C (700C)
Tire	Type	Clincher	Clincher
	Recommended size	23-622 - 32-622	23-622 - 32-622
Rim	Height (mm)	24	24
	Internal width (mm)	15	15
	External width (mm)	20.8	20.8
	Rim joint	Sleeve	Sleeve
	Brazed reinforcement	-	-
	OFFSET RIM	-	-
	Requires rim tape	✓	✓
Spokes	Number	20	24
	Straight pull	-	-
	Bladed	-	-
	Butted	-	-
	Diameter (mm)	2	2
Axle fixing method		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)	-	✓
HG spline S (7-speed)	-	-	
Engagement type		-	Pawl ratchet
Bearing	Stainless ball	-	-
	Cup	Polish	Polish
	Cone	CBN	CBN
Disc mount	CENTER LOCK	-	-
	CENTER LOCK mount cover option	-	-
	140 mm disc brake rotor compatible	-	-
OPTBAL (2:1)		-	-
D2 rim		-	-
Digital adjustment system		-	-
Seal	Hub	Contact	Contact
	FREEHUB body	-	Contact
Internal grease sleeve		-	-
Rim	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel
	Finish	Black	Black
Nipple	Material	Brass	Brass
	Finish	Silver	Silver
FREEHUB body	Material	-	Steel
	Finish	-	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Axle	Material	Steel	Steel
	Finish	-	-
Quick release lever	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Quick release housing	Material	Steel	Steel
	Finish	Painted	Painted
Quick release nut	Material	Resin	Resin
	Finish	Black	Black
Compatible spoke protector		-	CP-FH06 CP-FH31 CP-FH46 CP-WH24
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		820	1069
Note			

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## Head Parts

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

# Shift/Brake Lever (Hydraulic Disc Brake)

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

## Shift/Brake Lever (Hydraulic Disc Brake)

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

# Shift/Brake Lever

Series	DURA-ACE	DURA-ACE	ULTEGRA	ULTEGRA	DURA-ACE	DURA-ACE
Model no.	ST-R9250-R	ST-R9250-L	ST-R8150-R	ST-R8150-L	ST-R9150-R	ST-R9150-L
Shifter type	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Remote switch	✓	✓	✓	✓	✓	✓
Brake lever	Reach adjust	✓	✓	✓	✓	✓
	Clamp band (mm)	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2	23.8-24.2
	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						

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## 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	CFRP
	Finish	-	-
Electric button	Material	GFRP	GFRP
	Finish	-	-
Brake lever	Material	Aluminum	Aluminum
	Finish	Painted	Anodized
Master unit		-	-
Firmware update by E-TUBE PROJECT		✓	✓
Di2 connectivity wired	Di2 shifting	✓	✓
Di2 connectivity wireless	Di2 shifting	-	-
SD50 port (pcs)		2 /each, total 4	0
SD300 port (pcs)		0	0
SD50 connector (pcs)		0	1 /each, total 2
SD300 connector (pcs)		0	0
Port for SD50 remote sprinter shifter (pcs)		1 /each, total 2	0
Port for SD300 satellite shifter (pcs)		0	0
Battery		-	-
Average weight (g)		303.2 ( /pair)	148 ( /pair)
Note		-	-

# Shift Switch

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

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

# Rear Derailleur

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

# Rear Derailleur

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

- ST
- ST
- SL
- BL
- BL
- BR
- BR
- BR
- BR
- BR
- BR
- BR
- BC
- RD
- FD
- FC
- FC
- BB
- BB
- CS
- HB
- FH
- WH
- WH
- HP
- ST
- ST
- SW
- RD
- FD
- SMAD



## Front Derailleur

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

## Front Derailleur (Adapter)

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

# LIFESTYLE Active

	<i>Page</i>	
<b>Shifter</b>	<b>176</b>	SL
<b>Brake Lever</b> (Hydraulic Disc Brake)	<b>187</b>	BL
<b>Shift/Brake Lever</b> (Hydraulic Disc Brake)	<b>188</b>	ST
<b>Shift/Brake Lever</b> (Flat Handlebar type)	<b>190</b>	ST
<b>Shift/Brake Lever</b> (Drop Handlebar type)	<b>193</b>	ST
<b>Rear Derailleur</b>	<b>194</b>	RD
<b>Front Derailleur</b>	<b>198</b>	FD
<b>Brake</b> (Hydraulic Disc Brake)	<b>206</b>	BR
<b>Brake</b> (Mechanical Disc Brake)	<b>207</b>	BL
<b>Crankset</b>	<b>208</b>	FC
<b>Bottom Bracket</b> (HOLLOWTECH II)	<b>211</b>	BB
<b>Bottom Bracket</b>	<b>212</b>	BB
<b>Cassette</b>	<b>214</b>	CS
<b>Multiple Freewheel</b>	<b>217</b>	MF
<b>Front Hub</b> (Disc Brake)	<b>218</b>	HB
<b>Front Hub</b> (Rim Brake)	<b>220</b>	HB
<b>FREEHUB</b> (Disc Brake)	<b>221</b>	FH
<b>FREEHUB</b> (Rim Brake)	<b>224</b>	FH
<Di2 spec.> <b>Shift Switch</b>	<b>226</b>	SW
<b>Rear Derailleur</b>	<b>227</b>	RD

# Shifter

Series		CUES	CUES	CUES	CUES	CUES	CUES
Model no.		SL-U8000-11R	SL-U8000-11R	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

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

SL

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RD

# 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	ALTUS	ALTUS	ALTUS	SHIMANO	SHIMANO
Model no.		SL-M360-R	SL-M2010-9R	SL-M2010-L	SL-M2010-2L	SL-M315-8R	SL-M315-7R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	-	3	2	-	-
Rear speeds		8	9	-	-	8	7
Compatible rear derailleur type		MTB 8-speed	MTB 9-speed	-	-	MTB 8-speed	MTB 7-speed
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-
Shift lever cable adjust		✓	✓	✓	✓	✓	✓
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		3	3	-	-	3	3
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	-	-	-	-	-	-
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	Plated	Plated	Plated	Plated	Plated
Main lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
	Finish	-	-	-	-	-	-
Release lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		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-F55-7R	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

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

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# Shifter

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY
Model no.		SL-RS36-6R	SL-RS36-L	SL-RS35-7R	SL-RS35-6R	SL-RS35-L	SL-RS35-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	3 (friction)
Rear speeds		6	-	7	6	-	-
Compatible rear derailleur type		MTB 6-speed	-	MTB 7-speed	MTB 6-speed	-	-
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-
Shift lever cable adjust		-	✓	-	-	✓	✓
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		5	-	6	5	-	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	-	-	-	-	-	-
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Steel	Steel	Resin	Resin	Resin	Resin
	Finish	Painted	Painted	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-RV400-8R	SL-RV400-7R	SL-RV400-6R	SL-RV400-L	SL-RV400-LN	SL-RV300-7R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front speeds		-	-	-	3	3 (friction)	-
Rear speeds		8	7	6	-	-	7
Compatible rear derailleur type		MTB 8-speed	MTB 7-speed	MTB 6-speed	-	-	MTB 7-speed
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-
Shift lever cable adjust		-	-	-	x	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		7	6	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	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 <sup>K</sup>	-	-	-	-	-
		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							

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# Shifter

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SL-RV300-6R	SL-RV300-L	SL-RV300-LN	SL-RV200-7R	SL-RV200-6R	SL-RV200-L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front speeds		-	3	3 (friction)	-	-	3
Rear speeds		6	-	-	7	6	-
Compatible rear derailleur type		MTB 6-speed	-	-	MTB 7-speed	MTB 6-speed	-
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-
Shift lever cable adjust		-	-	-	-	-	✓
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		5	-	-	6	5	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	-	-	-	-	-	-
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	Resin	Resin	Resin	Resin	Resin	Resin
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Main lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		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		SHIMANO	TOURNEY TZ	TOURNEY TZ	TOURNEY TZ	SHIMANO A050	SHIMANO A050
Model no.		SL-RV200-LN	SL-TZ500-7R	SL-TZ500-6R	SL-TZ500-LN	SL-A050-7R	SL-A050-LN
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Shifter type		REVOSHIFT	Thumb Shifter	Thumb Shifter	Thumb Shifter	Handle bar mount shifter	Handle bar mount shifter
Front speeds		3 (friction)	-	-	3 (friction)	-	2 (friction)
Rear speeds		-	7	6	-	7	-
Compatible rear derailleur type		-	MTB 7-speed	MTB 6-speed	-	ROAD 7-speed	-
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever rotation adjust (non I-SPEC EV)		-	-	-	-	-	-
Shift lever cable adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (main lever/rear)		-	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	Steel	Steel	Steel	Steel	Steel
	Finish	Resin	Painted	Painted	Painted	Zinc plated	Zinc plated
Clamp screw	Material	Steel	Steel	Steel	Steel	-	-
	Finish	-	Zinc plated	Zinc plated	Zinc plated	-	-
Main lever body	Material	-	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	-	Resin	Resin
	Finish	-	-	-	-	-	-
Base cover	Material	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			* Gear Position Indicator	* Gear Position Indicator	* Gear Position Indicator		

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# Shifter

Series		SHIMANO	SHIMANO	
Model no.		SL-SY20A-7	SL-SY20A-6	
Color	1	Series color	Series color	
	2	-	-	
	3	-	-	
Shifter type		Down tube mount shifter	Down tube mount shifter	
Front speeds		2 (friction)	2 (friction)	
Rear speeds		7	6	
Compatible rear derailleur type		ROAD 7-speed	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	Steel	
	Finish	Zinc plated	Zinc plated	
Clamp screw	Material	-	-	
	Finish	-	-	
Main lever body	Material	Resin	Resin	
	Finish	-	-	
Release lever body	Material	Resin	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	OT-SIS40	
Average weight (g)		-	-	
Note		Stem and brazed on, band types are available	Stem and brazed on, band types are available	

# Brake Lever (Hydraulic Disc Brake)

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

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# Shift/Brake Lever (Hydraulic Disc Brake)

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

# Shift/Brake Lever (Hydraulic Disc Brake)

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

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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	Black	Black	Black	Black	Black	Black	
	2	Silver	Silver	-	-	Silver	Silver	
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
Shift lever	Front speeds	-	3	-	-	-	3	
	Rear speeds	8	-	8	8	8	-	
	Compatible rear derailleur type	MTB 8-speed	-	MTB 8-speed	MTB 8-speed	MTB 8-speed	-	
	Shift lever position adjust	-	-	-	-	-	-	
	Shift lever cable adjust	✓	✓	-	-	-	✓	
	2/3 mode converter	-	-	-	-	-	-	
	Max. multiple shifts (Main lever/rear)	3	-	3	3	3	-	
	Release function	MULTI RELEASE	-	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-	-
		2-WAY RELEASE	-	-	-	-	-	-
	OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction	-	-	-	-	-	-	
	Main lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Resin	Resin
Finish		-	-	-	-	-	-	
Release lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Resin	Resin	
	Finish	-	-	-	-	-	-	
Shift lever cable	Outer casing	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40	OT-SIS40	
	Inner cable	Polymer-coated cable	-	-	-	-	-	-
		OPTISLIC K	-	-	-	-	-	-
		SIL-TEC	-	-	-	-	-	-
		Stainless	-	-	-	-	-	-
Steel	✓	✓	✓	✓	✓	✓		
Brake lever	Compatible brake type	V-BRAKE	✓	✓	✓	✓ with switch*	✓	
		Mechanical disc brake (MTB)	✓	✓	✓	✓ with switch*	✓	
		Mechanical disc brake (Road)	-	-	-	-	-	
		Caliper (SLR-EV)	-	-	-	-	-	
		Caliper (NEW SUPER SLR)	-	-	-	-	-	
		Caliper (SUPER SLR)	-	-	-	✓ with switch	-	
		Cantilever brake	-	-	-	✓ with switch	-	
	Roller brake	-	-	-	✓ with switch	-		
	Recommended POWER MODULATOR	V-BRAKE	-	-	-	SM-PM40	-	
		Mechanical disc brake (MTB)	-	-	-	SM-PM50	-	
	Clamp band	Open clamp band	-	-	-	-	-	
	Internal bumper stop	-	-	-	-	-	-	
	Lever size (finger)	2	2	2	4	2	2	
	Brake cable type	T-type	T-type	T-type	T-type	T-type	T-type	
	Power adjuster	-	-	-	-	-	-	
SERVO WAVE	-	-	-	-	-	-		
Reach adjust	✓	✓	✓	✓	✓	✓		
Cable adjust	✓	✓	✓	✓	✓	✓		
Cable adjust type	Two hand	Two hand	Two hand	Two hand	Two hand	Two hand		
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel/Resin	Steel/Resin	
	Finish	Anodized	Anodized	Painted	Painted	-	-	
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	
		Finish	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	Black	Black	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
<b>Shifter type</b>		EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
<b>Shift lever</b>	Front speeds	-	-	3	3	2	2	
	Rear speeds	7	7	-	-	-	-	
	Compatible rear derailleur type	MTB 7-speed	MTB 7-speed	-	-	-	-	
	Shift lever position adjust	-	-	-	-	-	-	
	Shift lever cable adjust	-	-	✓	✓	✓	✓	
	2/3 mode converter	-	-	-	-	-	-	
	Max. multiple shifts (Main lever/rear)	3	3	-	-	-	-	
	Release function	MULTI RELEASE	-	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-	-
		2-WAY RELEASE	-	-	-	-	-	-
	OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction	-	-	-	-	-	-	
	Main lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
Finish		-	-	-	-	-	-	
Release lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	
	Finish	-	-	-	-	-	-	
<b>Shift lever cable</b>	Outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLIC K	-	-	-	-	-	
		SIL-TEC	-	-	-	-	-	
		Stainless	-	-	-	-	-	
Steel	✓	✓	✓	✓	✓	✓		
<b>Brake lever</b>	Compatible brake type	V-BRAKE	✓	✓ with switch*	✓	✓ with switch*	✓ with switch*	
		Mechanical disc brake (MTB)	✓	✓ with switch*	✓	✓ with switch*	✓	✓ with switch*
		Mechanical disc brake (Road)	-	-	-	-	-	-
		Caliper (SLR-EV)	-	-	-	-	-	-
		Caliper (NEW SUPER SLR)	-	-	-	-	-	-
		Caliper (SUPER SLR)	-	✓ with switch	-	✓ with switch	-	✓ with switch
		Cantilever brake	-	✓ with switch	-	✓ with switch	-	✓ with switch
	Roller brake	-	✓ with switch	-	✓ with switch	-	✓ with switch	
	Recommended POWER MODULATOR	V-BRAKE	-	SM-PM40	-	SM-PM40	-	SM-PM40
		Mechanical disc brake (MTB)	-	SM-PM50	-	SM-PM50	-	SM-PM50
	Clamp band	Open clamp band	-	-	-	-	-	-
	Internal bumper stop	-	-	-	-	-	-	
	Lever size (finger)	2	4	2	4	2	4	
	Brake cable type	T-type	T-type	T-type	T-type	T-type	T-type	
	Power adjuster	-	-	-	-	-	-	
SERVO WAVE	-	-	-	-	-	-		
Reach adjust	✓	✓	✓	✓	✓	✓		
Cable adjust	✓	✓	✓	✓	✓	✓		
Cable adjust type	Two hand	Two hand	Two hand	Two hand	Two hand	Two hand		
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
		Finish	Painted	Painted	Painted	Painted	Painted	
	Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	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	

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# Shift/Brake Lever (Flat Handlebar type)

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

# Shift/Brake Lever (Drop Handlebar type)

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

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# Rear Derailleur

Series		CUES	CUES	CUES	CUES	CUES	CUES
Model no.		RD-U8000	RD-U8020	RD-U6000	RD-U6020-11	RD-U6020-10	RD-U4000
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		11	11	11/10	11	10	9
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
RD construction	SHIMANO SHADOW RD	-	-	-	✓	✓	✓
	SHIMANO SHADOW RD+	✓	✓	✓	-	-	-
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	-	-	-	-	-	-
	Riveted adapter (ROAD type)	-	-	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		✓	✓	✓	✓	✓	✓
Max. front difference		0T	14T	0T	14T	16T	0T
Total capacity		39T	48T	39T	48T	44T	35T
Low sprocket	Max.	50T	45T	50T	45T	39T	46T
	Min.	50T	45T	48T	45T	39T	41T
Top sprocket	Max.	11T	11T	11T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluoroc 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
B-axle 2	Material	Black	Black	-	-	-	-
	Hollow axle	-	-	-	-	-	-
	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	SHIMANO ALIVIO	ALTUS	ALTUS	SHIMANO ESSA
Model no.		RD-U4020	RD-U3020	RD-M3100-SGS	RD-M2000	RD-M370-SGS	RD-U2000
Color	1	Series color	Series color	Series color	Series color	Black	Series color
	2	-	-	-	-	Silver	-
Rear speeds		9	9	9	9	9	8
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-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	-	-	-	-	✓	-
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	-	-	-	-	-	-
	Riveted adapter (ROAD type)	-	-	-	-	-	-
	Riveted adapter (BMX-track type)	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		✓	✓	✓	✓	✓	✓
Max. front difference		16T	16T	22T	22T	22T	0T
Total capacity		41T	41T	45T	45T	45T	34T
Low sprocket	Max.	36T	36T	36T	36T	34T	45T
	Min.	36T	36T	32T	32T	28T	45T
Top sprocket	Max.	11T	11T	12T	12T	11T	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	11T	11T	11/11T	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
B-axle 2	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	-	-	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Plate body	Material	PA+GF	PA+GF	PA+GF	PA+GF	Resin	PA+GF
	Finish	-	-	-	-	Painted	-
Outer link	Material	PA+GF	PA+GF	PA+GF	PA+GF	Steel	PA+GF
	Finish	-	-	-	Painted	Painted	-
Inner link	Material	PA+GF	PA+GF	Steel	Steel	Steel	PA+GF
	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	Steel	Stainless Steel
	Finish	-	-	-	-	Zinc plated	-
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Zinc plated	Zinc plated	Plated
Average weight (g)		-	-	-	-	-	-
Note		E-bike rated					

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# Rear Derailleur

Series		ACERA	ALTUS	TOURNEY TX	TOURNEY A070	TOURNEY	TOURNEY
Model no.		RD-M3020-8	RD-M310-Smart	RD-TX800	RD-A070	RD-TY500-SGS	RD-TY300-SGS
Color	1	Black	Black	Black	Series color	Series color	Series color
	2	-	Silver	Silver	-	-	-
Rear speeds		8/7	8/7	8/7	7	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
RD construction	SHIMANO SHADOW RD	-	-	-	-	-	-
	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	✓	✓	✓	-	✓	✓
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	-	-	-	-	-	-
	Riveted adapter (ROAD type)	-	-	-	✓	✓	✓
	Riveted adapter (BMX-track type)	-	-	-	-	✓	✓
Mode converter		-	-	-	-	-	-
Cable adjuster		✓	✓	✓	✓	✓	✓
Max. front difference		20T	20T	20T	20T	20T	20T
Total capacity		45T	43T	43T	37T	43T	43T
Low sprocket	Max.	40T	34T	34T	28T	34T	34T
	Min.	30T	28T	28T	28T	28T	28T
Top sprocket	Max.	12T	14T	14T	14T	14T	14T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		1	-	-	-	-	-
Pulley	Guide pulley bearing	-	-	-	-	-	-
	Tension pulley bearing	-	-	-	-	-	-
	Teeth	11T	13/15T	13/13T	11/13T	13/13T	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	Steel	Steel	Steel
	Finish	-	-	-	MnPO4	Zinc plated	Zinc plated
B-axle 2	Hollow axle	-	-	-	-	-	-
	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Resin	Resin	Resin	Resin
	Finish	Painted	Painted	Painted	-	-	-
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Plated	Zinc plated	Zinc plated
Plate body	Material	PA+GF	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Resin	Steel
	Finish	Zinc plated	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	Zinc plated	Zinc plated	Painted	Painted	Painted
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		-	-	-	-	w/ Wheel type cable guide	-

# Rear Derailleur

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY TZ
Model no.		RD-TY200-SS	RD-TY200-GS	RD-FT35-A-SS	RD-TY21-B-SS	RD-TY21-B-GS	RD-TZ500-GS
Color	1	Black	Black	Black	Black	Black	Series color
	2	-	-	-	Silver	Silver	-
Rear speeds		7/6 (front single)	7/6	7/6 (front single)	6	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	-	-	-	-	-	-
Mount	Direct attachment (conventional)	✓	✓	✓	✓	✓	✓
	Direct mount	-	-	-	-	-	-
	Riveted adapter (ROAD type)	✓	✓	✓	✓	✓	✓
	Riveted adapter (BMX-track type)	✓	-	✓	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		✓	✓	✓	✓	✓	✓
Max. front difference		0T	20T	0T	13T	20T	20T
Total capacity		20T	34T	17T	28T	34T	34T
Low sprocket	Max.	34T	28T	28T	28T	28T	28T
	Min.	28T	28T	28T	28T	28T	28T
Top sprocket	Max.	14T	14T	14T	14T	14T	14T
	Min.	12T	14T	11T	14T	14T	14T
Fluoric coated link bushings		-	-	-	-	-	-
Pulley	Guide pulley bearing	-	-	-	-	-	-
	Tension pulley bearing	-	-	-	-	-	-
	Teeth	11/11T	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	Black	Black	Black	Black	Black	Black
B-axle 2	Hollow axle	-	-	-	-	-	-
	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Bracket body	Material	Resin	Resin	Resin	Resin	Resin	Steel
	Finish	-	-	-	-	-	Painted
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Plate body	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted (black), Zinc plated (silver)	Painted (black), Zinc plated (silver)	Painted
Inner link	Material	Resin	Resin	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Zinc plated	Painted (black), Zinc plated (silver)	Painted (black), Zinc plated (silver)	Zinc plated
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted (black), Zinc plated (silver)	Painted (black), Zinc plated (silver)	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted (black), Zinc plated (silver)	Painted (black), Zinc plated (silver)	Painted
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							

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# 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-U4000-D	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front speeds		2	2	2	2	2	2	
Rear speeds		11/10	11/10	11/10	11/10	11/10	10/9	
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	
Action	TOP SWING		✓	-	-	-	✓	
	Down swing		-	-	-	-	-	
	SIDE SWING		-	✓	✓	✓	-	
Mount	Clamp band (mm)	28.6	-	-	-	✓ (w/ S size adapter)	-	
		31.8	✓ (w/ M size adapter)	-	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9	✓	-	-	✓	✓	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	✓	-	-	-
	Direct mount		-	✓	-	-	-	✓
	Brazed-on		-	-	-	-	-	-
Cable adjust		-	-	-	-	-	-	
Cable route type	Dual-pull		✓	-	-	-	✓	
	Top-pull exclusive		-	-	-	-	-	
	Down-pull exclusive		-	-	-	-	-	
	Front-pull		-	✓	✓	✓	-	
Chain line (mm)		48.8	48.8/51.8	48.8/51.8	48.8/51.8	48.8	48.8/51.8	
Chainstay angle (deg.)		63-68	64-69	64-69	64-69	63-68	64-69	
Top gear teeth		46T	36T, 40T	36T, 40T	36T, 40T	40T (2x11-speed), 46T (2x11/2x10-speed)	36T, 40T	
Total capacity		16T	14T	14T	14T	16T	14T	
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	4	
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	-	
	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	Plated	
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke adjusting screw	Material	Stainless steel	Steel	Steel	Steel	Stainless steel	Steel	
	Finish	-	Phosphate coated	Phosphate coated	Phosphate coated	-	Phosphate coated	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-	
Note		-	-	-	-	-	-	

# Front Derailleur

Series		CUES	CUES	CUES	CUES	SHIMANO ALIVIO	SHIMANO ALIVIO	
Model no.		FD-U4000-E	FD-U4000-M	FD-U4000-L	FD-U4010-L	FD-M4020-M	FD-M3100-M	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front speeds		2	2	2	2	2	3	
Rear speeds		10/9	10/9	10/9	9	9	9	
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG 9-speed	HG 9-speed	
Action	TOP SWING	-	-	✓	✓	-	-	
	Down swing	-	-	-	-	-	-	
	SIDE SWING	✓	✓	-	-	✓	✓	
Mount	Clamp band (mm)	28.6	-	-	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9	-	✓	✓	✓	✓	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	✓	-	-	-	-	-
	Direct mount	-	-	-	-	-	-	
	Brazed-on	-	-	-	-	-	-	
Cable adjust		-	-	-	-	-	-	
Cable route type	Dual-pull	-	-	✓	✓	-	-	
	Top-pull exclusive	-	-	-	-	-	-	
	Down-pull exclusive	-	-	-	-	-	-	
	Front-pull	✓	✓	-	-	✓	✓	
Chain line (mm)		48.8/51.8	48.8/51.8	48.8/51.8	48.8	48.8	50	
Chainstay angle (deg.)		64-69	64-69	64-69	63-68	64-69	66-69	
Top gear teeth		36T, 40T	36T, 40T	36T, 40T	46T	36T	40T	
Total capacity		14T	14T	14T	16T	14T	18T	
Applicable top-mid tooth difference		-	-	-	-	-	10T	
Multi access cable fixing screw		-	-	-	-	-	-	
Angled stroke adjust screw		✓	✓	✓	✓	✓	✓	
Angled clamp band design		-	✓	✓	✓	-	✓	
Multi-bearing construction		-	-	-	-	-	-	
Link bushings		4	4	-	-	4	4	
Front clamp band	Material	-	Steel	Steel	Steel	Steel	Steel	
	Finish	-	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	-	Steel	Steel	Stainless steel	Stainless steel	Steel	
	Finish	-	-	Nickel plated	-	-	-	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Plated	Plated	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	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	Stainless steel	Stainless steel	-	
	Finish	Phosphate coated	Phosphate coated	Zinc plated	-	-	-	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-	
Note		-	-	-	-	-	-	

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# Front Derailleur

Series		SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	ACERA	ALTUS
Model no.		FD-M3120-D	FD-M3120-E	FD-M3120-M	FD-M3120-M-B	FD-M3000-TS6	FD-M2020-TS
Color	1	Series color	Series color	Series color	Series color	Black	Series color
	2	-	-	-	-	-	-
Front speeds		2	2	2	2	3	2
Rear speeds		9	9	9	9	9	9
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Action	TOP SWING		-	-	-	✓	✓
	Down swing		-	-	-	-	-
	SIDE SWING		✓	✓	✓	✓	-
Mount	Clamp band (mm)	28.6	-	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)
		31.8	-	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9	-	-	✓	✓	✓
	E-type	With bottom bracket plate	-	-	-	-	-
		Without bottom bracket plate	-	✓	-	-	-
	Direct mount		✓	-	-	-	-
	Brazed-on		-	-	-	-	-
Cable adjust		-	-	-	-	-	
Cable route type	Dual-pull		-	-	-	✓	✓
	Top-pull exclusive		-	-	-	-	-
	Down-pull exclusive		-	-	-	-	-
	Front-pull		✓	✓	✓	✓	-
Chain line (mm)		48.8/51.8	48.8/51.8	48.8	51.8	50	48.8/51.8 *
Chainstay angle (deg.)		64-69	64-69	64-69	64-69	66-69	64-69
Top gear teeth		36T	36T	36T	36T	40T	36T
Total capacity		14T	14T	14T	14T	18T	14T
Applicable top-mid tooth difference		-	-	-	-	10T	-
Multi access cable fixing screw		-	-	-	-	-	-
Angled stroke adjust screw		✓	✓	✓	✓	✓	✓
Angled clamp band design		✓	✓	✓	✓	✓	✓
Multi-bearing construction		-	-	-	-	-	-
Link bushings		4	4	4	4	-	-
Front clamp band	Material	-	-	Steel	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	Steel	Steel	Steel	Steel	Stainless steel	Steel
	Finish	-	-	-	-	-	Nickel plated
Bottom bracket plate	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Zinc plated
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome plated	Chrome plated
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stroke adjusting screw	Material	-	-	-	-	Steel	Steel
	Finish	-	-	-	-	Zinc plated	Zinc plated
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-
Note							* Boost spec.

# Front Derailleur

Series		ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	
Model no.		FD-M2000-TS3	FD-M2000-TS6	FD-M2000-DS3	FD-M2000-DS6	FD-M370-3	FD-M370-6	
Color	1	Black	Series color	Black	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front speeds		3	3	3	3	3	3	
Rear speeds		9	9	9	9	9	9	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	
Action	TOP SWING	✓	✓	-	-	✓	✓	
	Down swing	-	-	✓	✓	-	-	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9	✓	✓	✓	✓	✓	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount	-	-	-	-	-	-	
	Brazed-on	-	-	-	-	-	-	
Cable adjust		-	-	-	-	-	-	
Cable route type	Dual-pull	✓	✓	✓	✓	✓	✓	
	Top-pull exclusive	-	-	-	-	-	-	
	Down-pull exclusive	-	-	-	-	-	-	
	Front-pull	-	-	-	-	-	-	
Chain line (mm)		50	50	50	50	50	50	
Chainstay angle (deg.)		63-66	66-69	63-66	66-69	63-66	66-69	
Top gear teeth		40T	40T	40T	40T	44T, 48T	44T, 48T	
Total capacity		18T	18T	18T	18T	22T	22T	
Applicable top-mid tooth difference		10T	10T	10T	10T	12T	12T	
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	Steel	
	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	Zinc plated	Zinc plated	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted/Zinc plated	Painted/Zinc plated	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing screw	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	
	Finish	-	-	-	-	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								

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# Front Derailleur

Series		ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	ALTUS	
Model no.		FD-M371-3	FD-M371-6	FD-M315-TS	FD-M313-3	FD-M313-6	FD-M310-3	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front speeds		3	3	2	3	3	3	
Rear speeds		9	9	8/7	8/7	8/7	8/7	
Compatible chain		HG 9-speed	HG 9-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	
Action	TOP SWING	-	-	✓	-	-	✓	
	Down swing	✓	✓	-	✓	✓	-	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9	✓	✓	✓	✓	✓	✓
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount	-	-	-	-	-	-	
	Brazed-on	-	-	-	-	-	-	
Cable adjust		-	-	-	-	-	-	
Cable route type	Dual-pull	✓	✓	✓	✓	✓	✓	
	Top-pull exclusive	-	-	-	-	-	-	
	Down-pull exclusive	-	-	-	-	-	-	
	Front-pull	-	-	-	-	-	-	
Chain line (mm)		50	50	48.8/51.8 *	47.5/50	47.5/50	47.5/50	
Chainstay angle (deg.)		63-66	66-69	64-69	63-66	66-69	63-66	
Top gear teeth		44T, 48T	44T, 48T	36T	42T, 48T	42T, 48T	42T, 48T	
Total capacity		22T	22T	14T	20T	20T	20T	
Applicable top-mid tooth difference		12T	12T	-	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	Aluminum	Aluminum	Steel	Aluminum	Aluminum	Steel	
	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	Zinc plated	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Nickel plated	
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	-	-	-	-	
Note				* Boost spec.				

# Front Derailleur

Series		ALTUS	TOURNEY TX	TOURNEY TX	TOURNEY	TOURNEY	TOURNEY	
Model no.		FD-M310-6	FD-TX800-TS3	FD-TX800-TS6	FD-TY600-L6	FD-TY600-L3	FD-TY601-L6	
Color	1	Series color	Black	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front speeds		3	3	3	3	3	3	
Rear speeds		8/7	8/7	8/7	8/7/6	8/7/6	8/7/6	
Compatible chain		HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	
Action	TOP SWING	✓	✓	✓	✓	✓	✓	
	Down swing	-	-	-	-	-	-	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp band (mm)	28.6	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	-	-	
		31.8	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓	✓	
		34.9	✓	✓	✓	✓	✓	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount	-	-	-	-	-	-	
	Brazed-on	-	-	-	-	-	-	
Cable adjust		-	-	-	-	-	-	
Cable route type	Dual-pull	✓	✓	✓	✓	✓	✓	
	Top-pull exclusive	-	-	-	-	-	-	
	Down-pull exclusive	-	-	-	-	-	-	
	Front-pull	-	-	-	-	-	-	
Chain line (mm)		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	66-69	63-66	66-69	
Top gear teeth		42T, 48T	42T, 48T	42T, 48T	42T	42T	48T	
Total capacity		20T	20T	20T	18T	18T	20T	
Applicable top-mid tooth difference		10T	10T	10T	8T	8T	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	Zinc plated	Zinc plated	Zinc plated	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Zinc plated	Zinc plated	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	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated/ Painted	Chrome plated/ Painted	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		-	-	-	-	-	-	

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# Front Derailleur

Series		TOURNEY	TOURNEY	TOURNEY	TOURNEY	TOURNEY TZ	TOURNEY TZ	
Model no.		FD-TY601-L3	FD-TY606-L	FD-TY300-DS6(475)	FD-TY300-DS6(50)	FD-TZ500-DS6	FD-TZ510-DS6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Front speeds		3	2	3	3	3 (friction)	3 (friction)	
Rear speeds		8/7/6	8/7/6	7/6	7/6	7/6	7/6	
Compatible chain		HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	HG 8/7/6-speed	
Action	TOP SWING	✓	✓	-	-	-	-	
	Down swing	-	-	✓	✓	✓	✓	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp band (mm)	28.6	-	✓	-	✓	✓	
		31.8	✓	✓	✓	✓	✓	
		34.9	✓	✓	-	✓	-	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct mount	-	-	-	-	-	-	
Brazed-on	-	-	-	-	-	-		
Cable adjust		-	-	-	-	-	-	
Cable route type	Dual-pull	✓	✓	-	-	-	-	
	Top-pull exclusive	-	-	✓	✓	✓	✓	
	Down-pull exclusive	-	-	✓	✓	✓	✓	
	Front-pull	-	-	-	-	-	-	
Chain line (mm)		47.5/50	48.8	47.5	50	47.5	47.5	
Chainstay angle (deg.)		63-66	63-68	66-69	66-69	66-69	66-69	
Top gear teeth		48T	46T	42T	42T	42T	48T	
Total capacity		20T	16T	18T	18T	18T	20T	
Applicable top-mid tooth difference		10T	-	8T	8T	8T	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	Zinc plated	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Painted	Painted	Painted	Painted	Painted	
Clamp screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Zinc plated	Zinc plated	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	
	Finish	Zinc plated	Zinc plated	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Zinc plated	Zinc plated	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated/ Painted	Chrome plated	Zinc plated	Zinc plated	Painted	Painted	
Cable fixing screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel 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) (band type: L size, direct type w/ screw)		-	-	-	-	-	-	
Note		-	-	-	-	-	-	

# Front Derailleur

Series		TOURNEY	TOURNEY	
Model no.		FD-A070-A	FD-A073	
Color	1	Series color	Series color	
	2	-	-	
Front speeds		2	3	
Rear speeds		7	7	
Compatible chain		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)		43.5	45	
Chainstay angle (deg.)		61-66	63-66	
Top gear teeth		50T	50T	
Total capacity		16T	20T	
Applicable top-mid tooth difference		-	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	
	Finish	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Clamp screw	Material	-	-	
	Finish	-	-	
Bottom bracket plate	Material	-	-	
	Finish	-	-	
Outer link	Material	Steel	Steel	
	Finish	Painted	Painted	
Inner link	Material	Steel	Steel	
	Finish	Painted	Painted	
Chain guide	Material	Steel	Steel	
	Finish	Painted	Painted	
Cable fixing screw	Material	Steel	Steel	
	Finish	Nickel plated	Nickel plated	
Stroke adjusting screw	Material	Steel	Steel	
	Finish	Zinc plated	Zinc plated	
Average weight (g) (band type: L size, direct type w/ screw)		-	-	
Note				

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## Brake (Hydraulic Disc Brake)

Series		CUES	CUES	SHIMANO
Model no.		BR-U8000	BR-U8020	BR-UR300
Color	1	Series color	Series color	Black
	2	-	-	-
	3	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SBM	SM-BH90-SBM	SM-BH59-JK-SS
J-Kit spec (for OEM)		✓	✓	✓
Hose joint		Banjo	Banjo	Straight
Brake hose color (kit)	1	Black	Black	Black
	2	-	-	-
ICE TECHNOLOGIES pad compatible caliper		✓	✓	-
Pad	Standard 1	G05A-RX Resin (w/o fin)	N03A-RF Resin (w/ fin)	B055-RX Resin (w/o fin)
	Standard 2	-	D03S-RX Resin (w/o fin)	-
	Option 1	G04S-MX Metal (w/o fin)	N04C-MF Metal (w/ fin)	-
	Option 2	J05A-RF Resin (w/ fin)	D02S-MX Metal (w/o fin)	-
Fixing screw spec for rear mount	10 mm mount	-	-	✓
	15 mm mount	-	-	✓
	20 mm mount	-	-	✓
	25 mm mount	-	-	✓
	30 mm mount	-	-	✓
	35 mm mount	-	-	✓
	15.2 mm	-	-	-
	18.7 mm	✓	✓	-
Recommended brake lever		BL-U8000	BL-U8000	BL-MT201 BL-MT200
Recommended disc brake rotor		RT-MT800	RT-MT800	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
ONE WAY BLEEDING		✓	-	✓
Mount type		Post type	Post type	Flat mount
Piston		2	4	2
Piston material		Ceramic	Ceramic	Resin
Caliper	MONO-BODY	-	-	-
	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Caliper fixing screw	Material	Steel	Steel	Steel
	Tool size	5 mm	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring	Screw fix pin+Snap ring
Pad mount		Pad axle	Pad axle	Split pin
Average weight (g)		107	117	-
Average weight (g) (kit for front 800 mm, w/ pad (Standard 1), w/o adapter, w/ 2 screws)		-	-	-
Note				* Only compatible with resin pad

## Brake (Mechanical Disc Brake)

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

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# 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	52 (30T, 32T), 50 (40T, 42T)
O.L.D._Thru (mm)		142	142	142	148	142	148, 142 (30T, 32T), 142 (40T, 42T)
O.L.D._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
Chaining 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	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	✓	✓	✓ (46-30T)	-	✓	✓ (40T, 42T)
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	-	-	✓	-
2-PIECE CRANKSET		-	-	✓	✓	-	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-MT801	BB-MT801	BB-MT501	BB-MT501	BB-MT501	BB-MT501
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	BB-MT501	-	BB-MT501	BB-MT501
	Press-Fit	BB-MT800-PA	BB-MT800-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/ES (mm)		-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	-	-	-	-	-	-
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		✓	✓	✓ (46-30T)	-	✓	✓ (40T, 42T)
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Steel
	Finish	Anodized	Anodized	Painted	Painted	Anodized	Painted
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	-	Steel	Steel	Steel	-
	Finish	Anodized	-	Painted	Painted	Painted	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Anodized	-	-	-	-
Inner ring fixing screw	Material	-	-	Stainless steel	Stainless steel	Stainless steel	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		✓	✓	-	-	✓	✓
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		-	-	-	-	-	-
Note							

# Crankset

Series		CUES	CUES	CUES	CUES	CUES	SHIMANO ESSA
Model no.		FC-U4000-2	FC-U4000-2B	FC-U4010-2	FC-U4010-2B	FC-U4000-1	FC-U2000-1
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		11/10/9	11/10/9	11/10/9 (36-22T, 40-26T), 10/9 (46-30T)	11/10/9	11/10/9	8/7
Compatible chain		LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	HG 8/7/6-speed
Chain line (mm)		48.8	51.8	48.8	51.8	52 (30T, 32T), 50 (40T, 42T)	52 (32T), 50 (40T)
O.L.D._Thru (mm)		142	148	142	148	148, 142 (30T, 32T), 142 (40T, 42T)	148/142 (32T), 142 (40T)
O.L.D._QR/Nut (mm)		135	141	135	141	141, 135 (30T, 32T), 135 (40T, 42T)	141/135 (32T), 135 (40T)
P.C.D. (mm)		Riveted	Riveted	Riveted	Riveted	Riveted	Riveted
Spider/gear arms		4	4	4	4	4	4
Chaining combination		36-22T, 40-26T	36-22T	36-22T, 40-26T, 46-30T	36-22T	30T, 32T, 40T, 42T	32T, 40T
Q-factor (mm)		178	178	180	180	178	178
Crank arm length (mm)	160	-	-	-	-	-	-
	165	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	✓ (40-26T)	-	✓ (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-UN101	BB-UN101	BB-MT501	BB-MT501	BB-UN101	BB-UN101
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	BB-MT501	-	BB-UN101-K	BB-UN101-K
	Press-Fit	-	-	BB-MT500-PA	BB-MT500-PA	-	-
Axle length of BB-UN/ES (mm)		LL123	LL123	-	-	LL123	LL123
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	-	-	-	-	-	-
	73	✓	✓	✓	✓	✓	✓
	83	-	-	-	-	-	-
Chain case compatible		-	-	✓ (46-30T)	-	✓ (40T, 42T)	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	-
	Finish	Plated	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	Steel	Steel	-	-
	Finish	Painted	Painted	Painted	Painted	-	-
Outer/middle ring fixing bolt	Material	-	-	-	-	Stainless steel	-
	Finish	-	-	-	-	-	-
Inner ring fixing screw	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing screw		-	-	-	-	✓	✓
Crank fixing screw included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		-	-	-	-	-	-
Note							

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# 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
O.L.D._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
Chaining 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	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	✓	✓	✓ (integrated type)	✓ (integrated type)	✓	✓
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		-	-	-	-	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	-	-	-	-	-	-
	OCTALINK	-	-	-	-	-	-
	Square	✓	✓	✓	✓	✓	✓
Recommended bottom bracket	Threaded (normal)	BB-UN101	BB-UN101	BB-UN101, BB-UN300	BB-UN101, BB-UN300	BB-UN300	BB-UN300
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	BB-UN101-K	-	BB-UN101-K, BB-UN300K	BB-UN101-K, BB-UN300K	-	-
	Press-Fit	-	-	-	-	-	-
Axle length of BB-UN/ES (mm)		LL123	LL123	D-NL, *D-EL	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

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# Bottom Bracket

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

# Bottom Bracket

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BB-ES51-AK	BB-UN300	BB-UN300-K	BB-UN300-E	BB-UN101	BB-UN101-K
Structure	Standard	-	✓	-	-	✓	-
	E-type	-	-	-	✓	-	-
	For chain case	✓	-	✓	-	-	✓
Spindle	Hollow pipe	✓	-	-	-	-	-
	OCTALINK	✓	-	-	-	-	-
	Square type	-	✓	✓	✓	✓	✓
Axle length/shell width (mm)	107	68 (BC1.37)	-	✓	-	-	-
		70 (M36)	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-
	MM110	68 (BC1.37)	-	✓**	✓	-	-
		70 (M36)	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-
	LL113	68 (BC1.37)	-	✓**	-	-	-
		70 (M36)	-	-	-	-	-
		73 (BC1.37)	-	✓	-	-	-
	113	68 (BC1.37)	-	-	-	-	-
		70 (M36)	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-
	D-H	68 (BC1.37)	-	✓*	-	-	-
		70 (M36)	-	-	-	-	-
	YL117	68 (BC1.37)	-	-	-	-	-
	117.5	68 (BC1.37)	-	✓**	✓	-	-
		70 (M36)	-	-	-	-	-
	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)		-	-	-	-	-	
D-EL 127	68 (BC1.37)	-	✓*	✓	-	-	
	70 (M36)	-	-	-	-	-	
LL123	68 (BC1.37)	-	✓	✓***	✓	✓**	
	70 (M36)	-	-	-	-	-	
123SP	68 (BC1.37)	-	✓	-	-	✓	
	70 (M36)	-	-	-	-	-	
130	68 (BC1.37)	-	-	-	-	-	
	70 (M36)	-	-	-	-	-	
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

- SL
- BL
- ST
- ST
- ST
- RD
- FD
- BR
- BL
- FC
- BB
- BB**
- CS
- MF
- HB
- HB
- FH
- FH
- SW
- RD



# Cassette

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

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	CS-LG300-10	CS-LG400-9	CS-LG300-9
Type	LINKGLIDE	LINKGLIDE	LINKGLIDE
Rear speeds	10	9	9
Compatible chain	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed	LINKGLIDE, HG 11-speed
Combination name (Group name)	11-39T, 11-48T	11-36T, 11-41T, 11-46T	11-36T, 11-41T, 11-46T
Combination * Titanium gear	1	11-13-15-17-20-23-26-30-34-39T	11-13-15-17-20-23-26-30-36T
	2	11-13-15-17-20-23-28-34-41-48T	11-13-15-17-20-23-28-34-41T
	3	-	11-13-15-17-20-23-28-36-46T
	4	-	-
	5	-	-
	6	-	-
	7	-	-
Spline type	MICRO SPLINE	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-
	HG spline L (ROAD 12/11-speed)	-	-
	HG spline M (10/9/8-speed, MTB 11-speed)	✓ *	✓ *
Carbon spider arm	HG spline S (7-speed)	-	-
	QTY (pcs)	-	-
Aluminum spider arm	Finish	-	-
	QTY (pcs)	-	-
Steel spider arm	Finish	-	-
	QTY (pcs)	-	-
Titanium gear	Finish	-	-
	QTY (pcs)	-	-
Aluminum gear	Finish	-	-
	QTY (pcs)	-	-
Steel gear	Finish	10	9
	Material	MnPO4	Plated
Lock ring	Finish	Steel	Steel
	Material	MnPO4	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)	11-13-15-17-19-21-24-28T (bf)		
	2	11-12-13-14-16-18-21-24-28T (bg)	11-13-15-17-20-23-26-30T (an)	11-13-15-17-20-23-26-30T (an)		
	3	11-12-14-16-18-21-24-28-32T (ar)	11-13-15-18-21-24-28-32T (aw)	11-13-15-18-21-24-28-32T (aw)		
	4	11-13-15-17-20-23-26-30-34T (au)	-	-	11-13-15-18-21-24-28-34T (Ca)	
	5	11-13-15-17-20-23-26-30-36T (cb)	-	-	12-13-14-15-17-19-21-23T (U)	
	6	12-14-16-18-21-24-28-32-36T (bh)	-	-	12-13-15-17-19-21-23-25T (W)	
	7	-	-	-	13-14-15-17-19-21-23-26T (V)	
Spline type	MICRO SPLINE	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed)	✓	✓	✓	✓	✓
	HG spline S (7-speed)	-	-	-	-	-
Carbon spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Steel spider arm	QTY (pcs)	-	-	-	-	-
	Finish	-	-	-	-	-
Titanium gear	QTY (pcs)	0	-	-	-	-
	Finish	-	-	-	-	-
Aluminum gear	QTY (pcs)	0	-	-	-	-
	Finish	-	-	-	-	-
Steel gear	QTY (pcs)	9	8	8	8	8
	Finish	Ni-Ni plated	Chrome plated	Chrome plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Nickel plated	Chrome plated	Chrome plated	Nickel plated	Nickel plated
Average weight (g)		-	-	-	-	-
Note						

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

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# Cassette

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG200-8	CS-HG41-7	CS-HG20-7
Type		HG	HG	HG
Rear speeds		8	7	7
Compatible chain		HG 8/7/6-speed	IG, HG 8/7/6-speed	IG, HG 8/7/6-speed
Combination name (Group name)		12-32T (br)	11-28T (ac)	12-28T (E)
Combination * Titanium gear	1	12-14-16-18-21-24-28-32T (br)	11-13-15-18-21-24-28T (ac)	12-14-16-18-21-24-28T (E)
	2	-	-	-
	3	-	-	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
Spline type	MICRO SPLINE	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed)	✓	-	-
	HG spline S (7-speed)	-	✓	✓
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	8	7	7
	Finish	Painted	Nickel plated	Brown+Black
Lock ring	Material	Steel	Steel	Steel
	Finish	Painted	Phosphate coated	Phosphate coated
Average weight (g)		-	-	-
Note				

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

# Multiple Freewheel

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

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

# Front Hub (Disc Brake)

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

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# Front Hub (Rim Brake)

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

# FREEHUB (Disc Brake)

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

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-TC600-HM-B	FH-TC600-MS-B	FH-TC500-HL	FH-TC500-HM	FH-TC500-HM-B	FH-TC500-MS
Color	1 Hub shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	-	-
	2 Hub shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Rear speeds		11/10/9/8	12	12/11	11/10/9/8	11/10/9/8	12
O.L.D. (mm)		148	148	142	142	148	142
Spoke hole	24H	-	-	-	-	-	-
	28H	✓	✓	✓	✓	✓	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	-	✓	✓	✓
10 tooth cog compatible		-	✓	-	-	-	✓
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
Quick release skewer length (mm)	166	-	-	-	-	-	-
	168	-	-	-	-	-	-
	170	-	-	-	-	-	-
	172	-	-	-	-	-	-
	173	-	-	-	-	-	-
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
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)		61.1	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)	✓	-	-	✓	✓	-
HG spline S (7-speed)		-	-	-	-	-	-
Engagement type		Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		✓ (36 times/360 deg.)	✓ (36 times/360 deg.)	-	-	-	-
Seal	Hub	Labyrinth+Contact	Labyrinth+Contact	Labyrinth & Contact	Labyrinth+Contact	Labyrinth+Contact	Labyrinth+Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	-	-	-
Digital adjustment system		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	-	-
	Cartridge	✓	✓	✓	✓	✓	✓
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
	Color	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Note							

# FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-TCS500-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	11/10/9/8	10/9/8	7
O.L.D. (mm)		148	135	135	135	135	135
Spoke hole	24H	-	-	-	-	-	-
	28H	✓	-	✓*	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
10 tooth cog compatible		✓	-	-	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	-	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	-	✓
CENTER LOCK mount cover option		-	✓	-	-	-	-
Axle fixing method		12 mm E-THRU	Quick release	Quick release	Quick release	Quick release	Quick release
Quick release skewer length (mm)	166	-	-	✓	✓	✓	✓
	168	-	✓	-	-	-	-
	170	-	-	✓	✓	✓	✓
	172	-	-	-	-	-	-
	173	-	✓	-	-	-	-
	174	-	-	-	-	-	-
	176	-	-	-	-	-	-
	178	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
	148 x 12	✓	-	-	-	-	-
	150 x 12	-	-	-	-	-	-
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 J2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	✓	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed)	-	-	✓	✓	✓	-
	HG spline S (7-speed)	-	-	-	-	-	✓
Engagement type		Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet	Pawl ratchet
Quick engagement		-	-	-	-	-	-
Seal	Hub	Labyrinth+Contact	Contact	Contact	Contact	Contact	-
	FREEHUB body	Contact	Contact	-	-	-	-
Internal grease sleeve		-	✓	-	-	-	-
Digital adjustment system		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	Polish	-	-	-	-
	Cone	-	CBN	-	-	-	-
	Cartridge	✓	-	-	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	Aluminum	Steel	Steel	Steel	Steel
	Finish	-	Anodized	Plated	Plated	Plated	Plated
	Color	-	-	-	-	-	-
Quick release housing	Material	-	Aluminum	Steel	Steel	Steel	Steel
	Finish	-	Anodized	Plated	Plated	Plated	Plated
Quick release nut	Material	-	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin	Steel+Resin
	Finish	-	Black	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Note			* Used with an additional spacer.	* 166 mm Quick release spec.			

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# 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	11/10/9/8	11/10/9/8	7	7	7
O.L.D. (mm)		135	135	135	135	130	135
Spoke hole	28H	-	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
10 tooth cog compatible		-	-	-	-	-	-
External serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	With	-	-	-	-	-	-
	Without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		Nut	Quick release	Nut	Quick release	Quick release	Nut
Quick release skewer length (mm)	161	-	-	-	-	✓	-
	166	-	✓	-	✓	-	-
	168	-	-	-	-	-	-
	170	-	✓	-	✓	-	-
	173	-	-	-	-	-	-
Thru axle (length x inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
	148 x 12	-	-	-	-	-	-
	150 x 12	-	-	-	-	-	-
Flange distance (mm)		55.45	57.4	57.4	57.4	57.4	57.4
Offset (mm)		7.6	6.8	6.8	4.6	7.1	4.6
P.C.D. left / right (mm)		45	45	45	45	45	45
Flange diameter left / right (mm)		53.8	53.8	53.8	53.8	53.8	53.8
Spline type	MICRO SPLINE	-	-	-	-	-	-
	HG spline L2 (ROAD 12-speed dedicated)	-	-	-	-	-	-
	HG spline L (ROAD 12/11-speed)	-	-	-	-	-	-
	HG spline M (10/9/8-speed, MTB 11-speed)	✓	✓	✓	-	-	-
	HG spline S (7-speed)	-	-	-	✓	✓	✓
Quick engagement		-	-	-	-	-	-
Seal	Hub	Contact	-	-	-	-	-
	FREEHUB body	-	-	-	-	-	-
Internal grease sleeve		-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	-	-	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted (black)/Clear	Painted (black)/Clear	Painted (black)	Painted (black)	Painted (black)
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	Steel	-	Steel	Steel	-
	Finish	-	Plated	-	Plated	Plated	-
Quick release housing	Material	-	Steel	-	Steel	Steel	-
	Finish	-	Plated	-	Painted	Painted	-
Quick release nut	Material	-	Steel+Resin	-	Steel+Resin	Steel+Resin	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Note					O.L.D. 130 mm available	O.L.D. 135 mm available	O.L.D. 130 mm available

# FREEHUB (Rim Brake)

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

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# Shift Switch

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

# Rear Derailleur

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

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# LIFESTYLE Comfort

	Page	
<b>Internal Geared Hub</b>	<b>230</b>	<b>SG</b>
<b>Chain Tensioner</b>	<b>235</b>	<b>CT</b>
<b>Sprocket</b>	<b>236</b>	<b>CS</b>
<b>Shifter</b>	<b>237</b>	<b>SL</b>
<b>Brake Lever</b> (Hydraulic Disc Brake)	<b>241</b>	<b>BL</b>
<b>Brake Lever</b>	<b>242</b>	<b>BL</b>
<b>Brake</b> (Hydraulic Disc Brake)	<b>243</b>	<b>BR</b>
<b>Brake</b> (Roller Brake)	<b>244</b>	<b>RB</b>
<b>Crankset</b>	<b>246</b>	<b>FC</b>
<b>Front Hub</b> (Roller Brake)	<b>247</b>	<b>HB</b>
<b>FREEHUB</b> (Roller Brake)	<b>248</b>	<b>FH</b>
<b>FREEHUB</b> (Band Brake)	<b>249</b>	<b>FH</b>
<b>Head Parts</b>	<b>249</b>	<b>HP</b>
<Di2 spec.> <b>Internal Geared Hub</b>	<b>250</b>	<b>SG</b>
<b>Motor Unit</b>	<b>251</b>	<b>MU</b>



# Internal Geared Hub

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

# Internal Geared Hub

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

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# Internal Geared Hub

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

# Internal Geared Hub

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

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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	-	-
Axle length (mm)	182	-	-
	184	-	-
	187	-	-
	193	-	✓
	Others	168/175/178	-
Flange distance (mm)		57.5	53.5
Flange diameter (mm)		67.5	77.6
Flange width (mm)	Right	2.3	3.2
	Left	2.3	3.2
Offset (mm)		1.2/2.7 (175mm axle)	1.7
P.C.D. left / right (mm)		59	65
Hub shell	material	Steel	Aluminum
	finish	Plated	Painted
Average weight (g)		1120	945
Note		-	-

# Chain Tensioner

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

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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

Series		ALFINE	ALFINE	ALFINE	NEXUS	NEXUS	NEXUS
Model no.		SL-S700	SL-S7000-8	SL-S503	SL-C6000-8	SL-7550	SL-C3000-7
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	REVOSHIFT	RAPIDFIRE PLUS	REVOSHIFT
Top-normal		✓	✓	-	-	-	-
Front speeds		-	-	-	-	-	-
Rear speeds		11	8	8	8	7	7
Compatible rear derailleur/internal geared hub type		SG-S7001-11	SG-S7000-8, SG-S7001-8	SG-S501, NEXUS INTER-8	NEXUS INTER-8	NEXUS INTER-7	NEXUS INTER-7
Compatible front derailleur type		-	-	-	-	-	-
Shift lever position adjust		-	-	-	-	-	-
Shift lever cable adjust		✓	✓	✓	✓	✓	✓
Max. multiple shifts (main lever/rear)		2	1	1	7	1	6
Release function	MULTI RELEASE	✓	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	-	✓	-
OPTICAL GEAR DISPLAY	With	Above handlebar	Above handlebar	Above handlebar	Window	Window	Window
	With (removable)	-	-	-	-	-	-
	Without	-	-	-	-	-	-
Multi-bearing construction		-	-	-	-	-	-
Shift lever bracket	Material	Aluminum	Aluminum	Aluminum	Resin	Aluminum	Resin
	Finish	Painted	Painted	Painted	Resin	Painted	Resin
Main lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	-	Steel+Resin	-
	Finish	-	-	-	-	-	-
Release lever body	Material	Steel+Resin	Steel+Resin	Steel+Resin	-	Steel+Resin	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-
		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	*European market only

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# Shifter

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	
Model no.		SL-C7000-5	SL-5550	SL-5530	SL-5530-A	SL-3542E	SL-C2010-3	
Color	1	Silver	Silver	Silver	Silver	-	Black	
	2	Black	Black	Black	Black	Black	-	
	3	-	-	White	White	-	-	
Shifter type		REVOSHIFT	RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT	REVOSHIFT	RAPIDFIRE PLUS	
Top-normal		✓	-	-	-	-	-	
Front speeds		-	-	-	-	-	-	
Rear speeds		5	5	5	5	3	3	
Compatible rear derailleur/internal geared hub type		NEXUS INTER-5E	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-3	NEXUS INTER-3	
Compatible front derailleur type		-	-	-	-	-	-	
Shift lever position adjust		-	-	-	-	-	-	
Shift lever cable adjust		✓	✓	✓	✓	-	✓	
Max. multiple shifts (main lever/rear)		4	1	4	4	2	1	
Release function	MULTI RELEASE	-	-	-	-	-	-	
	INSTANT RELEASE	-	-	-	-	-	-	
	2-WAY RELEASE	-	-	-	-	-	-	
OPTICAL GEAR DISPLAY	With	Window	Window	Window	Window	Window	Below handlebar	
	With (removable)	-	-	-	-	-	-	
	Without	-	-	-	-	-	-	
Multi-bearing construction		-	-	-	-	-	-	
Shift lever bracket	Material	Resin	Aluminum	Resin	Resin	Resin	Aluminum	
	Finish	Resin	Painted	Resin	Resin	Resin	Painted	
Main lever body	Material	-	-	-	-	-	Steel+Resin	
	Finish	-	-	-	-	-	-	
Release lever body	Material	-	-	-	-	-	Steel+Resin	
	Finish	-	-	-	-	-	-	
Base cover	Material	Resin	Resin	Resin	Resin	Resin	-	
	Finish	-	-	-	-	-	-	
Shift lever cable	Inner cable	Polymer-coated cable	-	-	-	-	-	
		OPTISLIC K	-	-	-	-	-	
		SIL-TEC	-	-	-	-	-	
		Stainless	✓	✓	✓	✓	✓	-
		Steel	-	-	-	-	-	✓
Recommended shift lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP40	SP outer for IHG	
Clamping diameter (mm)		22.2	22.2	22.2	22.2	22.2	22.2	
Average weight (g)		-	-	-	-	-	-	
Note		w/ Rubber bellows spec. is available						

# Shifter

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

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# Shifter

Series		NEXUS	
Model no.		SL-3591J	
Color	1	-	
	2	-	
	3	White	
Shifter type		Piano-touch	
Top-normal		-	
Front speeds		-	
Rear speeds		3	
Compatible rear derailleur/internal geared hub type		NEXUS INTER-3	
Compatible front derailleur type		-	
Shift lever position adjust		-	
Shift lever cable adjust		-	
Max. multiple shifts (main lever/rear)		2	
Release function	MULTI RELEASE	-	
	INSTANT RELEASE	-	
	2-WAY RELEASE	-	
OPTICAL GEAR DISPLAY	With	Dial	
	With (removable)	-	
	Without	-	
Multi-bearing construction		-	
Shift lever bracket	Material	Steel	
	Finish	Painted	
Main lever body	Material	Steel+Resin	
	Finish	-	
Release lever body	Material	Steel+Resin	
	Finish	-	
Base cover	Material	Resin	
	Finish	-	
Shift lever cable	Inner cable	Polymer-coated cable	-
		OPTISLIC K	-
		SIL-TEC	-
		Stainless	-
		Steel	✓
Recommended shift lever outer casing		SP outer for IHG	
Clamping diameter (mm)		22.2	
Average weight (g)		-	
Note			

# Brake Lever (Hydraulic Disc Brake)

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

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# Brake Lever

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

# Brake (Hydraulic Disc Brake)

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

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# Brake (Roller Brake)

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		BR-C6060-F	BR-C6050-F	BR-C6000-F	BR-C6000-F-DX	BR-C6000-R	BR-C6000-R-DX
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	1.2	1.2
Cooling fin diameter (mm)		138	138	150	150	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	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.		Except Japan market	Except Japan market				

Series		NEXUS	NEXUS	NEXUS	NEXUS	NEXUS	NEXUS
Model no.		BR-C3010-F	BR-C3010-R	BR-C3000-F	BR-C3000-F-DX	BR-C3000-R	BR-C3000-R-DX
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	-	-	Black	-	Black	-
Front		✓	-	✓	✓	-	-
Rear		-	✓	-	-	✓	✓
Structure type		Normal	Normal	Normal	Normal	Normal	Normal
Braking power ( *1 )		1.3	1.0	1.3	1.3	1.0	1.0
Cooling fin diameter (mm)		140	140	122	122	122	122
Heat dissipation ( *1 )		1.2	1.2	1.0	1.0	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.							

# Brake (Roller Brake)

Series		NEXUS
Model no.		BR-IM31-R
Color	1	Silver
	2	-
Front		-
Rear		✓
Structure type		Normal
Braking power ( *1 )		0.9
Cooling fin diameter (mm)		90
Heat dissipation ( *1 )		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.		

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# 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	-
Chaining combination		39T, 42T, 45T	33T, 38T
Q-factor (mm)		-	-
Crank arm length (mm)	165	-	-
	167.5	-	-
	170	✓	✓
	172.5	-	-
	175	-	-
	177.5	-	-
	180	-	-
Optional chain guard	With bash guard	-	-
	With chain guard	✓ (double)	-
	Without chain/bash guard	-	✓
HOLLOWTECH II		-	-
2-PIECE CRANKSET		✓	-
HOLLOWTECH crank arm		-	-
OCTALINK		-	-
HOLLOWGLIDE		-	-
Compatible bottom bracket type	Outboard	✓	-
	OCTALINK	-	-
	Square	-	✓
Recommended bottom bracket	Threaded (normal)	BB-RS501	-
	Threaded (E-type)	-	-
	Threaded (chain case)	-	BB-UN300-K
	Press-Fit	-	-
Axle length of BB-UN/ES (mm)		-	-
Threaded bottom bracket shell width (mm)	68	✓	✓
	70	-	-
	83	-	-
Chain case compatible		-	✓
Crank arm	Material	Aluminum	Aluminum
	Finish	Anodized/Painted	Painted
Crank axle	Material	-	-
	Finish	-	-
Spider arm	Material	-	-
	Finish	-	-
Spider arm cover	Material	-	-
	Finish	-	-
Outer ring	Material	Aluminum	Steel
	Finish	Anodized	Black
Middle ring	Material	-	-
	Finish	-	-
Inner ring	Material	-	-
	Finish	-	-
Outer/middle ring fixing bolt	Material	-	-
	Finish	-	-
Inner ring fixing screw	Material	-	-
	Finish	-	-
Chain guard 1	Material	Aluminum	Resin
	Finish	Anodized	Painted
	Diameter (mm) 45T	200	-
	Diameter (mm) 42T	190	-
	Diameter (mm) 39T	174	-
Diameter (mm) 33T	-	95.4	
Chain guard 2	Material	Resin	-
	Finish	-	-
	Diameter (mm) 45T	200	-
	Diameter (mm) 42T	190	-
	Diameter (mm) 39T	174	-
Diameter (mm) 33T	-	95.4	
Crank fixing screw included		✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		-	-
Note			t : Chain case thickness * Both of spec with screw and spec w/o screw are available.

# Front Hub (Roller Brake)

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

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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)
Axle fixing method		Nut	Nut	Nut	Nut
Axle (quick release type)	Quick release skewer length	-	-	-	-
	Length (mm)	-	-	-	-
	Material	-	-	-	-
Axle (nut type)	Length left / right (mm)	185	194/202	180/200	180/185/192/200/204
	Material	Steel	Steel	Steel	Steel
Seal	Hub	✓	-	-	-
	Freewheel	✓	-	-	-
Hub shell	Material	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Chrome plated	Plated	Plated
Note				For 6/7-speed multiple free wheel	For 6/7-speed multiple free wheel

# FREEHUB (Band Brake)

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

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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	-	-	-	-	-
Shifting structure		Di2	Di2	Di2	Di2	Di2	Di2
Silent clutch		✓	✓	✓	✓	✓	✓
Gear change support mechanism		✓	✓	✓	✓	✓	✓
Shifting POWER MODULATOR		✓	✓	✓	✓	✓	✓
Driving efficiency		HIGH	High	High	High	High	High
w/ Left hand dust cap		-	-	✓	-	✓	-
O.L.D. (mm)		135	135	135	135	135	135
Spoke size		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	✓	-	-	-	-	-
	32H	✓	✓	-	✓	-	✓
	36H	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	-	-	-
	184	-	-	-	-	-	-
	187	✓	✓	✓	✓	✓	✓
	193	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Flange distance (mm)		57.3	57.3	58.3	57.3	58.3	57.3
Flange diameter (mm)		104.3	104.3	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset (mm)		3.15	3.15	3.1	3.4	3.7	3.2
P.C.D. left / right (mm)		92.6	92.6	92.6	92.6	92.6	92.6
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Average weight (g)		1665	1670	1685	1680	1670	1670
Note		-	-	-	-	-	-

# Motor Unit

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

SG

CT

CS

SL

BL

BL

BR

RB

FC

HB

FH

FH

HP

SG

MU



**GENERAL**

	<i>Page</i>	
Chain	<b>254</b>	<b>CN</b>
Chain QUICK-LINK	<b>255</b>	<b>SMCN</b>
Disc Brake Rotor	<b>256</b>	<b>RT</b>
Disc Brake Hose	<b>258</b>	<b>BH</b>
Disc Brake Rotor Adapter	<b>259</b>	<b>RTAD</b>
Outer Casing	<b>259</b>	<b>OT</b>
Cable Adjuster	<b>260</b>	<b>SMCB SMCA</b>
<b>POWER MODULATOR</b>	<b>260</b>	<b>RM</b>
Hub Dynamo	<b>261</b>	<b>DH</b>
Light	<b>266</b>	<b>LP</b>
E-THRU Axle (AX)	<b>268</b>	<b>SMAX</b>
Pedal (SPD)	<b>270</b>	<b>PD</b>
Pedal (CLICK'R)	<b>273</b>	<b>PD</b>
Pedal (Flat Pedal)	<b>274</b>	<b>PD</b>
Pedal (SPD-SL)	<b>276</b>	<b>PD</b>
<Di2 spec.> Electric Wire	<b>277</b>	<b>EW</b>
Cord Cover	<b>277</b>	<b>EWC</b>
Grommet	<b>277</b>	<b>GM</b>
Wireless Unit	<b>278</b>	<b>WU</b>
Junction [A]	<b>278</b>	<b>JC</b>
Junction [B]	<b>279</b>	<b>JC</b>
Battery	<b>279</b>	<b>BT</b>
Battery Mount	<b>280</b>	<b>BM</b>
Battery Case	<b>280</b>	<b>SMBT</b>
Battery Charger	<b>280</b>	<b>SMBC</b>
Charger Cord	<b>281</b>	<b>BCC</b>
Charging Cable	<b>281</b>	<b>EWEC</b>
PC Linkage Device	<b>282</b>	<b>SMPCE</b>
Cord Band	<b>282</b>	<b>SMCB</b>
Cord Clip	<b>282</b>	<b>SMCC</b>
CAN Adapter	<b>283</b>	<b>EWEX</b>
Electric Cable for Non SHIMANO E-BIKE System	<b>283</b>	<b>EWPS</b>



# 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			

# Chain QUICK-LINK

GENERAL

Series	SHIMANO	SHIMANO
Model no.	SM-CN910-12	SM-CN900-11
E-BIKE rear derailleur system compatible	✓	✓
Compatible chain	HG 12-speed	LINKGLIDE, HG 11-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

CN

SMCN

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SMCC

EWEX

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# Disc Brake Rotor

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

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

# Disc Brake Rotor

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

CN

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# Disc Brake Hose

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-BH90-JK-SSR	SM-BH90-SB	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SBS	SM-BH90-SS
Color	1	Black	Black	Black	Black	Black	Black
	2	-	White	-	-	White	White
	3	-	-	-	-	-	-
Hose joint	Brake lever	Straight	Straight	Straight	Straight	Straight	Straight
	Brake caliper	Straight	Banjo	Banjo	Banjo	Banjo	Straight
Rigidity		High power	High power	High power	High power	High power	High power
Banjo	Material	-	Aluminum	Aluminum	Aluminum	Aluminum	-
	Length	-	Standard	Long	Standard	Standard	-
	Banjo screw length	-	Long	Short	Long, BR-M9120 spec. *, BR-M8100 spec. *	Short	-
	Banjo screw material	-	Steel	Steel	Steel	Steel	-
Flare nut	Material	Steel	Steel	Steel	Steel	Steel	Steel
Note					* Banjo screw is not included.		

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

# Disc Brake Rotor Adapter

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

# Outer Casing

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

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

# Cable Adjuster

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

# POWER MODULATOR

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

# Hub Dynamo

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

CN

SMCN

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# Hub Dynamo

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

# Hub Dynamo

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

CN

SMCN

RT

BH

RTAD

OT

SMCB  
SMCA

RM

DH

LP

SMAX

PD

PD

PD

PD

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

EWEC

SMPCE

SMCB  
SMCA

SMCC

EWEX

EWPS

# Hub Dynamo

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

# Hub Dynamo

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

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

# Light

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

# Light

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

CN

SMCN

RT

BH

RTAD

OT

SMCB  
SMCA

RM

DH

LP

SMAX

PD

PD

PD

PD

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

EWEC

SMPCE

SMCB  
SMCA

SMCC

EWEX

EWPS

# E-THRU Axle (AX)

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

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

# E-THRU Axle (AX)

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

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- SMCB SMCA
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- EW
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- GM
- WU
- JC
- JC
- BT
- BM
- SMBT
- SMBC
- BCC
- EWEC
- SMPCE
- SMCB SMCA
- SMCC
- EWEX
- EWPS



# Pedal (SPD)

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

# Pedal (SPD)

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

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## Pedal (SPD)

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

# Pedal (CLICK'R)

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

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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 (NEW)	Blue	Blue
	5	-	-	-	Purple (NEW)	Gold	Gold
	6	-	-	-	Green (NEW)	-	-
Type		Flat Pedal	Flat Pedal	Flat Pedal	Flat Pedal	Flat Pedal	Flat Pedal
Pedal axle material		Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel
Cartridge axle		✓	✓	✓	-	-	-
Sealed mechanism		✓	✓	✓	✓	✓	✓
Cleat retention adjuster		-	-	-	-	-	-
Pop-up cage		-	-	-	-	-	-
Integrated cage		-	-	-	-	-	-
Offset binding		-	-	-	-	-	-
Oval shape axle body housing		-	-	-	-	-	-
Cleat included		-	-	-	-	-	-
Optional cleat		-	-	-	-	-	-
Reflector		SM-PD64A	SM-PD67	SM-PD64A	SM-PD70	SM-PD69	SM-PD69
Pedal body	Material	Aluminum	Aluminum	Aluminum	Resin	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	-	Painted	Painted
Cage	Material	-	-	-	-	-	-
Wide platform		-	-	-	-	-	-
Stack height (mm)		8.2	9.1	9.4	8	10.8	10.8
Average weight (g)		553 (/pair)	461 (/pair) (SM) 505 (/pair) (ML)	533 (/pair)	400 (/pair)	512 (/pair)	612 (/pair)
Note		12 pins per platform	10 pins per platform 2 platform size available (SM/ML)	9 pins per platform	9 pins per platform		

# Pedal (Flat Pedal)

Series		SHIMANO
Model no.		PD-EF102
Color	1	Black
	2	-
	3	-
	4	-
	5	-
	6	-
Type		Flat Pedal
Pedal axle material		Chromoly steel
Cartridge axle		-
Sealed mechanism		✓
Cleat retention adjuster		-
Pop-up cage		-
Integrated cage		-
Offset binding		-
Oval shape axle body housing		-
Cleat included		-
Optional cleat		-
Reflector		Integrated
Pedal body	Material	Resin
	Finish	-
Cage	Material	-
Wide platform		-
Stack height (mm)		9
Average weight (g)		310 (/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-R5500
Color	1	CFRP	CFRP	CFRP	Black	Black
	2	-	-	-	Gray	-
	3	-	-	-	-	-
Type		SPD-SL	SPD-SL	SPD-SL	SPD-SL	SPD-SL
Binding		Single sided	Single sided	Single sided	Single sided	Single sided
Pedal axle material		Nickel chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel	Chromoly steel
Cartridge axle		-	✓	✓	✓	✓
Sealed mechanism		✓	✓	✓	✓	✓
Cleat retention adjuster		✓	✓	✓	✓	✓
Cleat included	SM-SH11	-	✓	✓	✓	✓
	SM-SH12	✓	-	-	-	-
Optional cleat	SM-SH10	✓	✓	✓	✓	✓
	SM-SH11	✓	-	-	-	-
	SM-SH12	-	✓	✓	✓	✓
Reflector		SM-PD63	SM-PD63	SM-PD65	SM-PD65	SM-PD65
Pedal body	Material	Carbon	Carbon	Carbon	Resin	Resin
	Finish	-	-	-	Painted	Painted
Body cover material		Special stainless	Special stainless	Stainless steel	Stainless steel	Stainless steel
Wide platform		✓	✓	✓	✓	-
Stack height (mm)		14.6	15.8	16.5	16.5	16.5
Pedal center (mm)		52	53	53	53	53
Road clearance (deg.)		35	33	31	32	30
Average weight (g)		228 (/pair)	248 (/pair)	265 (/pair)	310 (/pair)	320 (/pair)
Note		4 mm longer axle available, Hollow cleat screws	4 mm longer axle available	-	Wider spring tension range	-

# Electric Wire

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

# Cord Cover

Series	SHIMANO	SHIMANO
Model no.	SM-EWC2	EW-CC300
Specification	Long/Short	Long
Color	1	Black
	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				

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## Wireless Unit

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

## Junction [A]

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

# Junction [B]

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

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

# Battery

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

## Battery Mount

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

## Battery Case

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

## Battery Charger

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

# Charger Cord

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

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

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

# Charging Cable

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

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SMCB  
SMCA

SMCC

EWEX

EWPS

## PC Linkage Device

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

## Cord Band

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

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

CN

SMCN

RT

BH

RTAD

OT

SMCB  
SMCA

RM

DH

LP

SMAX

PD

PD

PD

PD

EW

EWEC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

EWEC

SMPCE

SMCB  
SMCA

SMCC

EWEX

EWPS



**E-BIKE**

	<i>Page</i>	
<b>Cycle Computer</b>	<b>286</b>	<b>SC</b>
<b>Switch Unit</b>	<b>288</b>	<b>SW</b>
<b>Drive Unit</b>	<b>290</b>	<b>DU</b>
<b>Drive Unit Cover</b>	<b>293</b>	<b>SMDU</b>
<b>Speed Sensor Unit</b>	<b>295</b>	<b>SMDU</b>
<b>Disc Brake Rotor</b>	<b>295</b>	<b>RT</b>
<b>Crank Arm</b>	<b>296</b>	<b>FC</b>
<b>Chainring Unit</b>	<b>297</b>	<b>SMCR</b>
<b>Chain Device</b>	<b>300</b>	<b>SMCD</b>
<b>Battery</b>	<b>301</b>	<b>BT</b>
<b>Battery Mount</b>	<b>307</b>	<b>BM</b>
<b>Satellite System ON/OFF Switch</b>	<b>310</b>	<b>EWSW</b>
<b>Satellite Charging Port</b>	<b>310</b>	<b>EWCP</b>
<b>Battery Charger</b>	<b>311</b>	<b>EC</b>
<b>Chain Case Fixing Screw</b>	<b>313</b>	<b>SMDU</b>
<b>CAN Cable</b>	<b>313</b>	<b>EWCA</b>
<b>&lt;ABS&gt; ABS Main Unit</b>	<b>314</b>	<b>BSAU</b>
<b>ABS Main Unit Mounting Parts Set</b>	<b>315</b>	<b>BSAS</b>
<b>ABS Power Split Cable</b>	<b>315</b>	<b>BSAP</b>
<b>ABS Wheel Speed Sensor Kit</b>	<b>316</b>	<b>BSSS</b>
<b>PC Linkage Device for ABS</b>	<b>316</b>	<b>SMPCE</b>
<b>Extension Cable for ABS</b>	<b>317</b>	<b>BSEW</b>



# Cycle Computer

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

# Cycle Computer

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

SC

SW

DU

SMDU

SMDU

RT

FC

SMCR

SMCD

BT

BM

EWSW

EWCP

EC

SMDU

EWCA

BSAU

BSAS

BSAP

BSSS

SMPCE

BSEW

# 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)	Dj2 data items	-	✓	-	-	-
		SHIMANO E-BIKE SYSTEM S data items	-	✓	-	-	-
	ANT private (*2)	Dj2 data items	-	✓	-	-	-
		SHIMANO E-BIKE SYSTEM S data items	-	✓	-	-	-
Average weight (g)		24.5	24	22	93.2	** 23.9	** 23.9
<p>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.</p>		* Set by E-TUBE PROJECT		** Available for rear derailleur			* Available for rear derailleur ** Cable length 700 mm spec. Cable length: 400 mm, 300 mm, 700 mm

# Switch Unit

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		SW-E6010-L	SW-E6010-R	SW-E6000
Switch type		-	-	-
Color	1	Black	Black	Black
	2	-	-	-
	3	-	-	-
Battery management system		First generation	First generation	First generation
Usage		For assist	For SEIS shift	* For assist or SEIS shift
Right SW		-	✓	✓
Left SW		✓	-	✓
Button numbers (pcs)		3	3	3
Master unit		-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓
SD50 port (pcs)		0	0	0
SD300 port (pcs)		0	0	0
SD50 connector (pcs)		1	1	1
SD300 connector (pcs)		0	0	0
System On-Off		-	-	-
Assist mode change		✓	-	✓
Display change		✓	✓	* ✓
Automatic/manual change		✓	✓	* ✓
Light On-Off		*-	-	* ✓
Multiple input	2 step	-	-	-
	Hold	-	** ✓	-
LED	Battery level	-	-	-
	Assist status	-	-	-
Wireless function	Bluetooth® LE custom (*1)	Dj2 data items	-	-
		SHIMANO E-BIKE SYSTEM S data items	-	-
	ANT private (*2)	Dj2 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
- SMDU
- EWCA
- BSAU
- BSAS
- BSAP
- BSSS
- SMPCE
- BSEW

# Drive Unit

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

# Drive Unit

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	DU-EP800-CRG	DU-E8000	DU-E8080	DU-E7000	DU-E6100	DU-E6100-CRG
Color	1	Black	Black	Black	Black	Black
	2	-	-	-	-	-
	3	-	-	-	-	-
Battery management system	First generation	First generation	First generation	First generation	First generation	First generation
Compatible brake type	Disc brake	Disc brake/V-BRAKE	Disc brake	Disc brake/V-BRAKE	V-BRAKE, Roller brake, Disc brake	Disc brake
Motor type	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position	Midship	Midship	Midship	Midship	Midship	Midship
Compatible wheel size (mm)	**1300-3000	*1300-3000	*1300-3000	*1300-3000	*1300-3000	**1300-3000
Continuous rated power (Watt)	250	250	250	250	250	250
Maximum torque (Nm)	85	70	70	60	60	60
Rated voltage	36 V DC	36 V DC	36 V DC	36 V DC	36 V DC	36 V DC
Di2 compatible	Internal geared hub	✓	-	-	-	✓
	Rear derailleur	✓	*✓	*✓	✓	✓
Maximum support bike speed	24 km/h	-	-	✓	*✓	✓
	25 km/h	**✓	*✓	-	*✓	**✓
	20 mph	**✓	*✓	-	*✓	**✓
	28 mph	-	-	-	-	-
	Other	-	-	-	-	-
	Adjustment	-	-	-	*✓	*✓
Riding characteristics	Dynamic	-	*✓	-	*✓	-
	Explorer	-	*✓	-	*✓	-
	Customize	-	*✓	-	*✓	-
	Sportive/Light off-road	-	-	-	-	*✓
	Comfort	-	-	✓	-	*✓
	Basic mode	✓	-	-	-	-
Assist customize	Number of profile	2	1	1	1	1
Assist mode	BOOST	✓	✓	-	✓	-
	HIGH	-	-	✓	-	✓
	TRAIL	✓	✓	-	✓	-
	NORMAL	✓	✓	✓	✓	✓
	ECO	✓	✓	✓	✓	✓
Power supply for front light	12 V DC	6 V DC	6 V DC	12 V DC	12 V DC	12 V DC
Power supply for rear light	12 V DC	6 V DC	6 V DC	12 V DC	12 V DC	12 V DC
Maximum current supply front and rear light total (A)	2.0	2.0	2.0	2.0	2.0	2.0
Power supply and maximum current for ACC	-	-	-	-	-	-
Power supply and maximum current for CAN port	-	-	-	-	-	-
Safe way home function	✓	✓	✓	✓	✓	✓
Communication	E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE	E-TUBE
Master unit	✓	✓	✓	✓	✓	✓
Firmware update by E-TUBE PROJECT	✓	✓	✓	✓	✓	✓
SD50 port (pcs)	0	2	2	2	2	2
SD300 port (pcs)	2	0	0	0	0	0
SD50 connector (pcs)	0	0	0	0	0	0
SD300 connector (pcs)	0	0	0	0	0	0
Terminal for light (pcs)	1	1	1	1	1	1
Port for electric devices (pcs)	0	0	0	0	0	0
Port for Speed Sensor (pcs)	SD50 type	0	1	1	1	1
	SD300 type	1	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 9-speed (INTER-SE)	*✓	-	-	-	✓
	Rear derailleur	-	-	-	-	-
SYMPHOMATIC	Internal geared hub	*✓	-	-	✓	✓
	Rear derailleur	-	-	-	-	-
Electronic shift by drive unit control	-	-	-	-	-	-
Compatible spindle type	24mm narrow	24mm	24mm	24mm	24mm	24mm
Drive unit fixing screw (pcs)	6	-	-	-	-	-
Average weight (kg)	2.6	2.88	2.89	2.79	2.76	2.76
Note	* In case of Di2 ** Set by E-TUBE PROJECT *** By using EW-SS300 EW-SS301	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** By using RD-M9050/RD-M8050	* Set by E-TUBE PROJECT ** By using SM-DUE11	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** By using RD-M9050/RD-M8050	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** Only in combination with Di2	* In case of Di2 ** Set by E-TUBE PROJECT *** By using SM-DUE10/SM-DUE11

SC

SW

DU

SMDU

SMDU

RT

FC

SMCR

SMCD

BT

BM

EWSW

EWCP

EC

SMDU

EWCA

BSAU

BSAS

BSAP

BSSS

SMPCE

BSEW

# Drive Unit

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

# Drive Unit Cover

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

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

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

SC

SW

DU

SMDU

SMDU

RT

FC

SMCR

SMCD

BT

BM

EWSW

EWCP

EC

SMDU

EWCA

BSAU

BSAS

BSAP

BSSS

SMPCE

BSEW



# Drive Unit Cover

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

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

# Speed Sensor Unit

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

# Disc Brake Rotor

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

- SC
- SW
- DU
- SMDU
- SMDU
- RT
- FC
- SMCR
- SMCD
- BT
- BM
- EWSW
- EWCP
- EC
- SMDU
- EWCA
- BSAU
- BSAS
- BSAP
- BSSS
- SMPCE
- BSEW

# 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	-	-	-	-

# Chaining Unit

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	-	✓	-	-	-	-	
DYNAMIC CHAIN ENGAGEMENT+		✓	-	✓	✓	✓	-
Chaining teeth	Combination	-	-	-	-	-	-
	47T	-	-	-	-	-	✓
	44T	-	✓	-	-	-	-
	42T	-	-	-	-	-	-
	40T	-	-	-	-	-	-
	38T	-	✓	✓	-	✓	-
	36T	-	-	✓	✓	-	-
	34T	-	-	✓	✓	✓	-
	32T	✓	-	-	-	-	-
Others	-	-	-	-	-	-	
Chain guard type	Double	-	✓	-	-	-	-
	Single	-	✓	-	-	-	-
	w/o chain guard	✓	✓	✓	✓	✓	✓
Chaining 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	-	-	-	-	-	-
	43	-	-	-	-	-	-
P.C.D. (mm)		96	104	104	104	104	104
Chaining	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
Chaining 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				Compatible chain CN-M9100 CN-M8100 CN-M7100 CN-M6100	Compatible chain CN-M9100 CN-M8100 CN-M7100 CN-M6100	* E-BIKE rear derailleurs system compatible chain Compatible chain CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11 CN-E6090-10	Compatible chain CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11 CN-E6090-10

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# Chaining Unit

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	-	-	-	-	-	-	✓
DYNAMIC CHAIN ENGAGEMENT+		✓ (38T, 34T)	-	-	-	-	-
Chaining teeth	Combination	-	-	-	-	-	-
	47T	-	-	-	-	-	-
	44T	✓	-	-	-	-	✓
	42T	-	-	✓	-	-	-
	40T	-	-	-	-	-	-
	38T	✓	-	-	-	✓	✓
	36T	-	✓	-	-	-	-
	34T	✓	-	-	✓	-	-
	32T	-	-	-	-	-	-
Others	-	-	-	-	-	-	
Chain guard type	Double	**✓	-	✓	-	✓	✓
	Single	-	-	-	-	-	✓
	w/o chain guard	✓	✓	-	✓	✓	✓
Chaining 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	-	-	-	-	-	-
Belt line (mm)	46.5	-	-	-	-	-	✓
	46	-	-	-	-	-	-
Belt line (mm)	43	-	-	-	-	-	-
	P.C.D. (mm)	104	104	104	104	104	-
Chaining	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	-
Chaining 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	<p>* E-BIKE rear derailleur system compatible chain  ** 44T only  Compatible chain  CN-HG901-11  CN-HG701-11  CN-HG601-11  CN-E8000-11  CN-E6090-10  CN-E6070-9</p> <p>Compatible chain  CN-M9100  CN-M8100  CN-M7100  CN-M6100</p> <p>Compatible chain  CN-M9100  CN-M8100  CN-M7100  CN-M6100</p> <p>Compatible chain  CN-HG901-11  CN-HG701-11  CN-HG601-11  CN-E8000-11  CN-E6090-10  CN-E6070-9</p> <p>Compatible chain  CN-HG901-11  CN-HG701-11  CN-HG601-11  CN-E8000-11  CN-E6090-10  CN-E6070-9  * w/o CG, w/o back plate</p> <p>* Color of arm cover</p>						

# Chainring Unit

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	✓
DYNAMIC CHAIN ENGAGEMENT+		-
Chainring teeth	Combination	-
	47T	-
	44T	✓
	42T	-
	40T	-
	38T	✓
	36T	-
	34T	-
	32T	-
	Others	-
Chain guard type	Double	✓
	Single	✓
	w/o chain guard	✓
Chainring fixing lock nut		Included in drive unit
Arm cover outer diameter (mm)		95 (w/o chain guard only)
Chain device compatible		-
Chain case compatible		✓
Chain line (mm)	56.5	-
	55	-
	53	-
	50	-
	49.7	-
	47	-
	46.5	✓
Belt line (mm)	46	-
	43	-
P.C.D. (mm)		-
Chainring	Material	Steel
	Finish	Painted
Spider arm	Material	-
	Finish	-
Chainring fixing bolt	Material	Stainless steel
	Finish	-
Spider/gear arms		4
Average weight (g)		-
Note		-

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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-EN805-A	BT-EN805-L-A	BT-EN806-A	BT-EN604-A	BT-EN605-A	BT-EN606-A
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
EN50604-1		✓	✓	✓	✓	✓	✓
Battery management system		Second generation	Second generation	Second generation	Second generation	Second generation	Second generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Integrated	Integrated	Integrated	Down tube/Seat tube	Down tube/Seat tube	Down tube/Seat tube
Rated voltage (V)		36	36	36	36	36	36
Rated capacity (Ah)		14	14	17.5	11.6	14	17.5
Rated capacity (Wh)		504	504	630	418	504	630
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)	* 4.8 (** 5.7)
	SOC = 80%	* 2.5 (** 3.2)	* 2.5 (** 3.2)	* 3.2 (** 4)	* 2.0 (** 2.5)	* 2.5 (** 3.2)	* 3.2 (** 4)
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-EN800-A BM-EN800-B BM-EN801-A BM-EN801-B	BM-EN600	BM-EN600	BM-EN600
Compatible charger		EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004
Compatible adaptor for charge		SM-BTE80	SM-BTE80	SM-BTE80	-	-	-
Average weight (kg)		2.9	3.15	3.7	2.6	2.55	3.2
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) *** 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)

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# Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-EN404-A	BT-EN405-A	BT-E8010-A	BT-E8014-A	BT-E8016-A	BT-E8035-A
Color	1	Black	Black	Black	Black	Black	Black
	2	Gray	Gray	-	-	-	-
	3	-	-	-	-	-	-
EN50604-1		✓	✓	✓	✓	✓	✓
Battery management system		Second generation	Second generation	First generation	First generation	First generation	First generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Rear carrier	Rear carrier	Down tube	Down tube	External	Integrated
Rated voltage (V)		36	36	36	36	36	36
Rated capacity (Ah)		11.6	14	* 14	* 11.6	* 17.5	* 14
Rated capacity (Wh)		418	504	* 504	* 418	* 630	* 504
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%	* 3.0 (** 3.5)	* 4 (** 4.5)	** 4 (***) 4.5)	** 3.0 (***) 3.5)	** 4.8 (***) 5.7)	** 4 (***) 4.5)
	SOC = 80%	* 2.0 (** 2.5)	* 2.5 (** 3.2)	** 2.5 (***) 3.2)	** 2.0 (***) 2.5)	** 3.2 (***) 4)	** 2.5 (***) 3.2)
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		-	-	✓	✓	✓	** -
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-EN400	BM-EN400	BM-E8016	BM-E8016	BM-E8016	BM-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-BTE60	-	-	-	SM-BTE80
Average weight (kg)		2.58	2.65	2.6	2.55	3.2	2.9
Note		* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)	* BT-E8010-A for Japan (13 Ah, 468 Wh) ** By EC-E8004 (***) In case of 100 V AC)	* BT-E8014-A for Japan (10.9 Ah, 393 Wh) ** By EC-E8004 (***) In case of 100 V AC)	* BT-E8016-A for Japan (16.2 Ah, 583 Wh) ** By EC-E8004 (***) In case of 100 V AC)	* BT-E8035-A for Japan (13 Ah, 468 Wh) ** By EC-E8004 (***) In case of 100 V AC) **** with SM-BTE80 or EW-CP100

# Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-E8035-L-A	BT-E8036-A	BT-E6000-A	BT-E6001-A	BT-EN805	BT-EN805-L
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	Gray	Gray	-	-
	3	-	-	-	-	-	-
EN50604-1		✓	✓	✓	✓	-	-
Battery management system		First generation	First generation	First generation	First generation	Second generation	Second generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Integrated	Integrated	Rear carrier	Rear carrier	Integrated	Integrated
Rated voltage (V)		36	36	36	36	36	36
Rated capacity (Ah)		* 14	* 17.5	11.6	14	14	14
Rated capacity (Wh)		* 504	* 630	418	504	504	504
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 (** 4.5)	* 4 (** 4.5)
	SOC = 80%	** 2.5 (** 3.2)	** 3.2 (** 4)	* 2.0 (** 2.5)	* 2.5 (** 3.2)	* 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-E6000	BM-E6000	BM-EN800-A BM-EN800-B BM-EN801-A BM-EN801-B	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-BTE60	SM-BTE60	SM-BTE80	SM-BTE80
Average weight (kg)		3.15	3.7	2.58	2.65	2.9	3.15
Note		* BT-E8035-L-A for Japan (13 Ah, 468 Wh) ** By EC-E8004 (** In case of 100 V AC) **** with SM-BTE80 or EW-CP100	* BT-E8036-A for Japan (16.2 Ah, 583 Wh) ** By EC-E8004 (** In case of 100 V AC) **** with SM-BTE80 or EW-CP100	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC)	* By EC-E8004 (** In case of 100 V AC) *** with SM-BTE80 or EW-CP100	* 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	SHIMANO	SHIMANO
Model no.		BT-EN806	BT-EN604	BT-EN605	BT-EN606	BT-EN404	BT-EN405
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	Gray	Gray
	3	-	-	-	-	-	-
EN50604-1		-	-	-	-	-	-
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	Down tube/Seat tube	Down tube/Seat tube	Down tube/Seat tube	Rear carrier	Rear carrier
Rated voltage (V)		36	36	36	36	36	36
Rated capacity (Ah)		17.5	11.6	14	17.5	11.6	14
Rated capacity (Wh)		630	418	504	630	418	504
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%	* 4.8 (** 5.7)	* 3.0 (** 3.5)	* 4 (** 4.5)	* 4.8 (** 5.7)	* 3.0 (** 3.5)	* 4 (** 4.5)
	SOC = 80%	* 3.2 (** 4)	* 2.0 (** 2.5)	* 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-EN800-A BM-EN800-B BM-EN801-A BM-EN801-B	BM-EN600	BM-EN600	BM-EN600	BM-EN400	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-BTE60	SM-BTE60
Average weight (kg)		3.7	2.55	2.6	3.2	2.58	2.65
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)	* 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-E8010	BT-E8014	BT-E8016	BT-E8020	BT-E8035	BT-E8035-L
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
EN50604-1		-	-	-	-	-	-
Battery management system		First generation	First generation	First generation	First generation	First generation	First generation
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Down tube	Down tube	External	Integrated	Integrated	Integrated
Rated voltage (V)		36	36	36	36	36	36
Rated capacity (Ah)		* 14	* 11.6	* 17.5	14	* 14	* 14
Rated capacity (Wh)		* 504	* 418	* 630	504	* 504	* 504
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)	** 3.0 (** 3.5)	** 4.8 (** 5.7)	* 4 (** 4.5)	** 4 (** 4.5)	** 4 (** 4.5)
	SOC = 80%	** 2.5 (** 3.2)	** 2.0 (** 2.5)	** 3.2 (** 4)	* 2.5 (** 3.2)	** 2.5 (** 3.2)	** 2.5 (** 3.2)
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		✓	✓	✓	✓	** -	** -
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-E8016	BM-E8016	BM-E8016	BM-E8020	BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	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-BTE80	SM-BTE80
Average weight (kg)		2.6	2.55	3.2	3.05	2.9	3.15
Note		* 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	* BT-E8035-L 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
Model no.		BT-E8036	BT-E6000	BT-E6001
Color	1	Black	Black	Black
	2	-	Gray	Gray
	3	-	-	-
EN50604-1		-	-	-
Battery management system		First generation	First generation	First generation
Chemistry		Li-Ion	Li-Ion	Li-Ion
Position		Integrated	Rear carrier	Rear carrier
Rated voltage (V)		36	36	36
Rated capacity (Ah)		* 17.5	11.6	14
Rated capacity (Wh)		* 630	418	504
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)
	SOC = 80%	** 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-E6000	BM-E6000
Compatible charger		EC-E6002, EC-E8004	EC-E6002, EC-E8004	EC-E6002, EC-E8004
Compatible adaptor for charge		SM-BTE80	SM-BTE60	SM-BTE60
Average weight (kg)		3.7	2.58	2.65
Note		* 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-EN800-A	BM-EN800-B	BM-EN801-A	BM-EN801-B	BM-EN600	BM-EN400-A
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	Gray
	3	-	-	-	-	-	-
Battery management system		Second generation	Second generation	Second generation	Second generation	Second generation	Second generation
Position		Integrated	Integrated	Integrated	Integrated	Down tube/Seat tube	Rear carrier
Charging port		-	-	-	-	-	✓
Key lock system		✓	✓	-	-	✓	✓
System on/off switch		-	-	-	-	-	-
Power cable		✓	✓	✓	✓	✓	✓
Power cable length (mm)	75	-	-	-	-	-	-
	250	✓	✓	✓	✓	✓	-
	300	-	-	-	-	✓	-
	400	✓	✓	✓	✓	-	-
	600	-	-	-	-	✓	-
	900	-	-	-	-	-	-
	920	-	-	-	-	-	✓
	1000	-	-	-	-	-	-
1020	-	-	-	-	-	✓	
Connect to EW-CP***		✓	-	✓	-	-	-
Cable length to EW-CP*** (mm)		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)	* 0.38 (power cable: 920 mm), * 0.39 (power cable: 1020 mm)
<b>Note</b> * See latest line-up chart & compatibility for compatible battery and compatible installation tool		* Without key unit	* Without key unit	-	-	* Without key unit	Compatibility with AXA key unit. * Without key unit

- SC
- SW
- DU
- SMDU
- SMDU
- RT
- FC
- SMCR
- SMCD
- BT
- BM
- EW SW
- EWCP
- EC
- SMDU
- EWCA
- BSAU
- BSAS
- BSAP
- BSSS
- SMPCE
- BSEW

# Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BM-EN400-B	BM-E8016	BM-E8020	BM-E8030-A	BM-E8030-B	BM-E8031-A
Color	1	Black	Black	Black	Black	Black	Black
	2	Gray	-	-	-	-	-
	3	-	-	-	-	-	-
Battery management system		Second generation	First generation	First generation	First generation	First generation	First generation
Position		Rear carrier	Down tube/Seat tube	Integrated	Integrated	Integrated	Integrated
Charging port		✓	-	-	-	-	-
Key lock system		✓	✓	✓	✓	✓	-
System on/off switch		-	-	-	-	-	-
Power cable		✓	✓	✓	✓	✓	✓
Power cable length (mm)	75	-	-	-	-	-	-
	250	-	✓	✓	✓	✓	✓
	300	-	✓	-	-	-	-
	400	-	-	✓	✓	✓	✓
	600	-	✓	-	-	-	-
	900	-	-	-	-	-	-
	920	✓	-	-	-	-	-
	1020	✓	-	-	-	-	-
Connect to EW-CP***		-	-	-	✓	-	✓
Cable length to EW-CP*** (mm)		-	-	-	200	-	200
Average weight (kg)		* 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)	0.33 (power cable: 250 mm), 0.34 (power cable: 400 mm)
<b>Note</b> * See latest line-up chart & compatibility for compatible battery and compatible installation tool		Compatibility with ABUS and Trelock key unit. * Without key unit	-	-	* Without key unit	* Without key unit	-

# Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		BM-E8031-B	BM-E6000-A	BM-E6000-B
Color	1	Black	Black	Black
	2	-	Gray	Gray
	3	-	-	-
Battery management system		First generation	First generation	First generation
Position		Integrated	Rear carrier	Rear carrier
Charging port		-	✓	✓
Key lock system		-	✓	✓
System on/off switch		-	-	-
Power cable		✓	✓	✓
Power cable length (mm)	75	-	-	-
	250	✓	-	-
	300	-	-	-
	400	✓	-	-
	600	-	-	-
	900	-	-	-
	920	-	✓	✓
	1000	-	-	-
	1020	-	✓	✓
Connect to EW-CP***		-	-	-
Cable length to EW-CP*** (mm)		-	-	-
Average weight (kg)		0.31 (power cable: 250 mm), 0.32 (power cable: 400 mm)	-	-
Note * See latest line-up chart & compatibility for compatible battery and compatible installation tool		-	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
Model no.	EW-CP100
Position	Integrated
Compatible battery mount	BM-E8030-A, BM-E8031-A, BM-EN800-A, BM-EN801-A
Compatible battery charger	EC-E6002, EC-E8004
Firmware update by E-TUBE PROJECT	-
Cable length to battery mount (mm)	200, 550
Average weight (g)	-
<p>Note</p> <p>* See latest line-up chart &amp; compatibility for compatible battery</p>	

# Battery Charger

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EC-E8004-1	EC-E8004-2	EC-E8004-3	EC-E8004-4	EC-E8004-6	EC-E8004-7
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Plug type		Type C	Type A	Type A	Type O	Type BF	Type C
Typical example country/region		Europe	USA, Canada	Japan	Australia, New Zealand	UK	Korea
Compatible voltage		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	100 V - 240 V AC, 50 - 60 Hz
Output		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	42 V DC, 4 - 4.6 A
CE standard		✓	-	-	-	✓	-
UL standard		-	✓	-	-	-	-
Korea standard		-	-	-	-	-	✓
Japan standard		-	-	✓	-	-	-
Charging time for 630 Wh (583 Wh in Japan) battery	Full charge (hour)	4.8 (* 5.7)	5.7	5.7	4.8 (* 5.7)	4.8 (* 5.7)	4.8 (* 5.7)
	80% charge (hour)	3.2 (* 4)	4	4	3.2 (* 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)	4 (* 4.5)
	80% charge (hour)	2.5 (* 3.2)	3.2	3.2	2.5 (* 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)	3.0 (* 3.5)
	80% charge (hour)	2.0 (* 2.5)	2.5	2.5	2.0 (* 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		-	-	-	-	-	-
Built in AC cable		✓	✓	✓	✓	✓	✓
Built in AC cable length (m)		2	2	1	1	1	1
Average weight (g)							
<b>Note</b> * See latest line-up chart & compatibility for compatible battery		* 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	* In case of 100 V AC ** Check latest line-up chart

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# Battery Charger

Series		SHIMANO	SHIMANO
Model no.		EC-E8004-12	EC-E6002
Color	1	Black	Black
	2	-	-
	3	-	-
Plug type		Type C	-
Typical example country/region		Brazil	Worldwide
Compatible voltage		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, 1.8 A
CE standard		-	✓
UL standard		-	✓
Korea standard		-	✓
Japan standard		-	✓
Charging time for 630 Wh (583 Wh in Japan) battery	Full charge (hour)	4.8 (* 5.7)	10.2
	80% charge (hour)	3.2 (* 4)	7.5
Charging time for 504 Wh (464 Wh in Japan) battery	Full charge (hour)	4 (* 4.5)	7.5
	80% charge (hour)	2.5 (* 3.2)	4
Charging time for 418 Wh (393 Wh in Japan) battery	Full charge (hour)	3.0 (* 3.5)	6.5
	80% charge (hour)	2.0 (* 2.5)	3.5
Charging level display		-	-
Plug in charging type		✓	✓
Charging temperature		0 - 40 °C	0 - 40 °C
Storage temperature		-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	-
Average weight (g)			523
Note * See latest line-up chart & compatibility for compatible battery		* In case of 100 V AC ** Check latest line-up chart	* Check latest line-up chart

## 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	

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# 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

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## ABS Wheel Speed Sensor Kit

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

## PC Linkage Device for ABS

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

# Extension Cable for ABS

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

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