

**ARCHIVE**

This information was updated on November 30, 2020. SHIMANO makes no warranty with respect to this information, including without limitation any warranty on the accuracy of measures, specifications and compatibility of the current products. Regarding any modification and new product information after November 30, 2020, please refer to the SHIMANO Business Customer Web Site or directly contact the sales person of our company.

# SHIMANO

## 2020-2021

## SPEC. HANDBOOK

- MTB
- TREKKING
- GRAVEL/ADVENTURE
- ROAD
- URBAN
- GENERAL
- DI2 Spec
- E-BIKE

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

All information in this spec. handbook is confidential and has been given to you for the sole use of your product development staff.

This information should not be photo copied.  
Specifications are subject to change without prior notice.

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

# Word definitions

<b>BB</b>	Bottom bracket	<b>HP</b>	Head parts
<b>BC</b>	Brake cable	<b>HRB</b>	Hub roller brake
<b>BCC</b>	Charger cord	<b>I-SPEC</b>	Integration mounting system of brake and shifting lever
<b>BCR</b>	Battery charger		
<b>BH</b>	Disc 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>BTH</b>	Battery holder	<b>O.L.D.</b>	Over Locknut Dimension
<b>BTR</b>	Battery	<b>OT</b>	Outer casing
<b>CB</b>	Coaster brake	<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</b>	Disc brake rotor
<b>CS</b>	Cassette sprocket	<b>RTAD</b>	Disc brake 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>EC</b>	Battery charger		
<b>EW</b>	Electric wire	<b>SF</b>	Single freewheel
<b>EWC</b>	Cord cover	<b>SG</b>	Internal geared hub
<b>EWEX</b>	DI2 adapter	<b>SL</b>	Shifting lever
<b>EWW</b>	Wireless unit	<b>SPD</b>	SHIMANO PEDALING DYNAMICS
<b>FC</b>	Crankset	<b>SPD-SL</b>	SHIMANO PEDALING DYNAMICS-SL
	Crank arm		
<b>FD</b>	Front derailleur	<b>ST</b>	DUAL CONTROL LEVER / shifting lever integrated with brake lever
<b>FH</b>	FREEHUB	<b>SW</b>	Switch unit
<b>GM</b>	Grommet	<b>WH</b>	Wheel
<b>HB</b>	Front hub		

ARCHIVE

	<i>Page</i>	
<b>Shifting Lever</b>	<b>2</b>	SL
<b>Seat Post Lever</b>	<b>18</b>	SLMT
<b>Shifting Lever (Integration Unit)</b>	<b>18</b>	SMSL
<b>Brake Lever (Hydraulic Disc Brake)</b>	<b>19</b>	BL
<b>Brake Lever</b>	<b>22</b>	BL
<b>Shifting/Brake Lever (Hydraulic Disc Brake)</b>	<b>23</b>	ST
<b>Shifting/Brake Lever</b>	<b>24</b>	ST
<b>Rear Derailleur</b>	<b>27</b>	RD
<b>Front Derailleur</b>	<b>34</b>	FD
<b>Brake (Hydraulic Disc Brake)</b>	<b>49</b>	BR
<b>Brake (Mechanical Disc Brake)</b>	<b>54</b>	BR
<b>Brake (V-BRAKE)</b>	<b>54</b>	BR
<b>Crankset</b>	<b>55</b>	FC
<b>Chain Device</b>	<b>66</b>	SMCD
<b>Chainring</b>	<b>67</b>	SMCR
<b>Bottom Bracket (HOLLOWTECH II)</b>	<b>69</b>	BB
<b>Bottom Bracket</b>	<b>70</b>	BB
<b>Cassette Sprocket</b>	<b>72</b>	CS
<b>Multiple Freewheel</b>	<b>76</b>	MF
<b>Front Hub (Disc Brake)</b>	<b>77</b>	HB
<b>Front Hub (Rim Brake)</b>	<b>82</b>	HB
<b>FREEHUB (Disc Brake)</b>	<b>83</b>	FH
<b>FREEHUB (Rim Brake)</b>	<b>90</b>	FH
<b>Wheel (Disc Brake)</b>	<b>91</b>	WH
<b>CI-DECK</b>	<b>99</b>	CI-DECK

# Shifting Lever

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	-	-	-	-	-	-
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	-
Compatible with I-SPEC EV Brake Lever		✓	✓	✓	✓	✓	✓
Mount type	Clamp band	✓	-	✓	-	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	✓	-	✓	-	-
Shifting lever position adjust		-	(14 mm slide adjust range)	-	(14 mm slide adjust range)	-	-
Shifting lever rotation adjust (Non I-SPEC EV)		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position 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 Mono Lever	-	-	✓	✓	-	-
OPTICAL GEAR DISPLAY	with	-	-	-	-	-	-
	with (removable)	-	-	-	-	-	-
	without	✓	✓	✓	✓	✓	✓
Multi-Bearing construction		4	4	4	4	4	4
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Anodized	Painted	Anodized	Anodized
Clamp bolt	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
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Polymer-coated	Polymer-coated	Polymer-coated	Polymer-coated	Polymer-coated	Polymer-coated
Recommended shifting 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	

# Shifting Lever

Series		XTR	XTR	SAINT	SAINT	SHIMANO DEORE XT	SHIMANO 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	-	-	-	-	-	-
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
Compatible with I-SPEC EV Brake Lever		-	-	✓	-	✓	✓
Mount type	Clamp band	-	-	✓	-	✓	-
	I-SPEC B	✓	✓	-	✓**	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	✓
Shifting lever position adjust		✓	✓	-	✓	-	✓ (14 mm slide adjust range)
Shifting lever rotation adjust (Non I-SPEC EV)		✓	✓	-	✓	-	-
Shifting lever cable adjust		✓ (CFRP)	✓ (CFRP)	✓ (CFRP)	✓ (CFRP)	✓	✓
Initial lever position adjust		-	-	-	-	-	-
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 Mono Lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	-	-	-	-	-	-
	with (removable)	-	-	-	-	-	-
	without	✓	✓	✓	✓	✓	✓
Multi-Bearing construction		4	4	4	4	2	2
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Clamp bolt	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	CFRP & Steel	CFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	SIL-TEC	SIL-TEC	-	-	OPTISLICK	OPTISLICK
Recommended shifting 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

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Shifting Lever

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT
Model no.		SL-M8100-L	SL-M8100-IL	SL-M8000-R	SL-M8000-L	SL-M8000-IR	SL-M8000-IL
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2	2	-	2/3	-	2/3
Rear speeds		-	-	11	-	11	-
Compatible rear derailleur type		-	-	MTB 11-speed	-	MTB 11-speed	-
Compatible with I-SPEC EV Brake Lever		✓	✓	✓	✓	-	-
Mount type	Clamp band	✓	-	✓	✓	-	-
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	✓	✓
	I-SPEC EV	-	✓	-	-	-	-
Shifting lever position adjust		-	(14 mm slide adjust range)	-	-	✓	✓
Shifting lever rotation adjust (Non I-SPEC EV)		-	-	-	-	✓	✓
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position adjust		✓	✓	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		-	-	4	-	4	-
Release function	MULTI RELEASE	-	-	✓*	-	✓*	-
	INSTANT RELEASE	✓	✓	✓	✓	✓	✓
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
	Adjustable Mono Lever	✓	✓	-	-	-	-
OPTICAL GEAR DISPLAY	with	-	-	-	-	-	-
	with (removable)	-	-	✓	✓	-	-
	without	✓	✓	✓	✓	✓	✓
Multi-Bearing construction		2	2	2	2	2	2
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-	-
	Finish	Black	Black	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		78 (/pc)	78 (/pc)	127 (/pc)	117 (/pc)	120 (/pc)	110 (/pc)
Note		w/Rubber grooved grip (main lever)	w/Rubber grooved grip (main lever)	* Pull: single, push: double		* Pull: single, push: double	

# Shifting Lever

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT
Model no.		SL-M8000-B-IR	SL-M780-B-IR	SL-M780-B-IL	SL-M780-R	SL-M780-L	SL-M770-A-R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	-	2/3	-	2/3	-
Rear speeds		11	10	-	10	-	9
Compatible rear derailleur type		MTB 11-speed	MTB 10-speed	-	MTB 10-speed	-	MTB 9-speed
Compatible with I-SPEC EV Brake Lever		-	-	-	✓	✓	✓
Mount type	Clamp band	-	-	-	✓	✓	✓
	I-SPEC B	✓	✓	✓	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		✓	✓	✓	-	-	-
Shifting lever rotation adjust (Non I-SPEC EV)		✓	✓	✓	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position 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 Mono Lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	-	-	-	-	-	-
	with (removable)	-	-	-	✓	✓	✓
	without	✓	✓	✓	✓	✓	✓
Multi-Bearing construction		2	2	2	2	2	2
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	-	-	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	Resin
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	-	-	-	-	-
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		117 (/pc)	114 (/pc)	106 (/pc)	128 (/pc)	121 (/pc)	255 (/pair)
Note		* Pull: single, push: double					

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Shifting Lever

Series		SHIMANO DEORE XT	SLX	SLX	SLX	SLX	SLX
Model no.		SL-M770-A-L	SL-M7100-R	SL-M7100-IR	SL-M7100-L	SL-M7100-IL	SL-M7000-11-R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS
Front speeds		3	-	-	2	2	-
Rear speeds		-	12	12	-	-	11
Compatible rear derailleur type		-	12-speed	12-speed	-	-	MTB 11-speed
Compatible with I-SPEC EV Brake Lever		✓	✓	✓	✓	✓	✓
Mount type	Clamp band	✓	✓	-	✓	-	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	✓	-	✓	-
Shifting lever position adjust		-	-	(14 mm slide adjust range)	-	(14 mm slide adjust range)	-
Shifting lever rotation adjust (Non I-SPEC EV)		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position 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 Mono Lever	-	-	-	✓	✓	-
OPTICAL GEAR DISPLAY	with	-	-	-	-	-	-
	with (removable)	✓	-	-	-	-	✓
	without	✓	✓	✓	✓	✓	✓
Multi-Bearing construction		2	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Main lever body	Material	Aluminum	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	Painted	-	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	Painted	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		255 (/pair)	117 (/pc)	117 (/pc)	77 (/pc)	77 (/pc)	135 (/pc)
Note							

# Shifting Lever

Series		SLX	SLX	SLX	SLX	SLX	SLX
Model no.		SL-M7000-L	SL-M7000-11-IR	SL-M7000-IL	SL-M7000-11-B-IR	SL-M7000-B-IL	SL-M7000-10-R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2/3	-	2/3	-	2/3	-
Rear speeds		-	11	-	11	-	10
Compatible rear derailleur type		-	MTB 11-speed	-	MTB 11-speed	-	MTB 10-speed
Compatible with I-SPEC EV Brake Lever		✓	-	-	-	-	✓
Mount type	Clamp band	✓	-	-	-	-	✓
	I-SPEC B	-	-	-	✓	✓	-
	I-SPEC II	-	✓	✓	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	✓	✓	✓	✓	-
Shifting lever rotation adjust (Non I-SPEC EV)		-	✓	✓	✓	✓	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position 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 Mono Lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	-	-	-	-	-	-
	with (removable)	✓	-	-	-	-	✓
	without	✓	✓	✓	✓	✓	✓
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	-	-	-	-	Stainless steel
	Finish	-	-	-	-	-	-
Main lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		130 (/pc)	120 (/pc)	115 (/pc)	127 (/pc)	120 (/pc)	135 (/pc)
Note							

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Shifting Lever

Series		SLX	SLX	SLX	SLX	ZEE	SHIMANO DEORE
Model no.		SL-M7000-10-IR	SL-M7000-10-B-IR	SL-M670-B-IR	SL-M670-B-IL	SL-M640	SL-M6100-R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	-	-	2/3	-	-
Rear speeds		10	10	10	-	10	12
Compatible rear derailleur type		MTB 10-speed	MTB 10-speed	MTB 10-speed	-	MTB 10-speed	MTB 12-speed
Compatible with I-SPEC EV Brake Lever		-	-	-	-	✓	✓
Mount type	Clamp band	-	-	-	-	✓	✓
	I-SPEC B	-	✓	✓	✓	-	-
	I-SPEC II	✓	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		✓	✓	✓	✓	-	-
Shifting lever rotation adjust (Non I-SPEC EV)		✓	✓	✓	✓	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position 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 Mono Lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	-	-	-	-	-	✓
	with (removable)	-	-	-	-	-	-
	without	✓	✓	✓	✓	✓	✓
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	-	-	-	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Main lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK	-	-	-	OPTISLICK
Recommended shifting 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)	127 (/pc)	-
Note							

# Shifting Lever

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Model no.		SL-M6100-IR	SL-M6000-R	SL-M6000-L	SL-M6000-IR	SL-M6000-IL	SL-M5100-R
Color	1	Series color	Series black	Series black	Series black	Series black	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	-	2/3	-	2/3	-
Rear speeds		12	10	-	10	-	11
Compatible rear derailleur type		MTB 12-speed	MTB 10-speed	-	MTB 10-speed	-	MTB 11-speed
Compatible with I-SPEC EV Brake Lever		✓	✓ (w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)	✓	-	-	✓
Mount type	Clamp band	-	✓	✓	-	-	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	✓	✓	-
	I-SPEC EV	✓	-	-	-	-	-
Shifting lever position adjust		✓ (14 mm slide adjust range, w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)	-	-	-	-	-
Shifting lever rotation adjust (Non I-SPEC EV)		-	-	-	✓	✓	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position 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 Mono Lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	✓	✓	✓	-	-	✓
	with (removable)	-	-	-	-	-	-
	without	✓	✓	✓	✓	✓	✓
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	-	-	Stainless steel
	Finish	-	-	-	-	-	-
Main lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		-	-	-	-	-	-
Note							

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Shifting Lever

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Model no.		SL-M5100-IR	SL-M5100-L	SL-M5100-IL	SL-M4100-R	SL-M4100-IR	SL-M610-IR
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS MONO	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	2	2	-	-	-
Rear speeds		11	-	-	10	10	10
Compatible rear derailleur type		MTB 11-speed	-	-	MTB 10-speed	MTB 10-speed	MTB 10-speed
Compatible with I-SPEC EV Brake Lever		✓	✓	✓	✓	✓	-
Mount type	Clamp band	-	✓	-	✓	-	-
	I-SPEC B	-	-	-	-	-	✓
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	✓	-	✓	-	✓	-
Shifting lever position adjust		✓ (14 mm slide adjust range, w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)	-	✓ (14 mm slide adjust range)	-	✓ (14 mm slide adjust range, w/o OPTICAL GEAR DISPLAY) - (w/ OPTICAL GEAR DISPLAY)	-
Shifting lever rotation adjust (Non I-SPEC EV)		-	-	-	-	-	✓
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position 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 Mono Lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	✓	-	-	✓	✓	-
	with (removable)	-	-	-	-	-	-
	without	✓	✓	✓	✓	✓	✓
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	-
	Finish	-	-	-	-	-	-
Main lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	GFRP & Steel	-	-	Resin & Steel	Resin & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Steel	Steel	Steel	Steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	-
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		-	-	-	-	-	-
Note							

# Shifting Lever

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO
Model no.		SL-M610-IL	SL-M590-R	SL-M590-L	SL-M3100-R	SL-M3100-L	SL-M3100-2L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS MONO
Front speeds		2/3	-	3	-	3	2
Rear speeds		-	9	-	9	-	-
Compatible rear derailleur type		-	MTB 9-speed	-	MTB 9-speed	-	-
Compatible with I-SPEC EV Brake Lever		-	✓	✓	-	-	✓
Mount type	Clamp band	-	✓	✓	✓	✓	✓
	I-SPEC B	✓	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust (Non I-SPEC EV)		✓	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		✓	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		-	3	-	3	-	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	-	-	✓
	Adjustable Mono Lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	-	✓	✓	✓	✓	-
	with (removable)	-	-	-	-	-	-
	without	✓	-	-	-	-	✓
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	-	Stainless steel	Stainless steel	Steel	Steel	Steel
	Finish	-	-	-	Plated	Plated	Plated
Main lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	Resin & Steel	-	Resin & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel
	Finish	-	-	-	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		-	-	-	-	-	-
Note							

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Shifting Lever

Series		SHIMANO ACERA	SHIMANO ACERA	SHIMANO ACERA	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS
Model no.		SL-M3000-R	SL-M3010-L	SL-M360-R	SL-M2010-9R	SL-M2010-L	SL-M2010-2L
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	2	-	-	3	2
Rear speeds		9	-	8	9	-	-
Compatible rear derailleur type		MTB 9-speed	-	MTB 8-speed	MTB 9-speed	-	-
Compatible with I-SPEC EV Brake Lever		✓	✓	✓	✓	✓	✓
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust (Non I-SPEC EV)		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Initial lever position 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 Mono Lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	✓	✓	✓	✓	✓	✓
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	Plated	Plated	Plated
Main lever body	Material	Steel & Resin	Steel & Resin	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	Steel & Resin	Steel & Resin	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Steel*	Steel	Steel	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		-	-	-	-	-	-
Note		* Stainless steel option available					

# Shifting Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO TOURNEY	SHIMANO TOURNEY
Model no.		SL-M315-8R	SL-M315-7R	SL-M315-L	SL-M315-2L	SL-FT55-7R	SL-TX50-7R
Color	1	Series color	Series color				
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Thumb shifter Plus	Thumb Shifter Plus
Front speeds		-	-	3	2	-	-
Rear speeds		8	7	-	-	7	7
Compatible rear derailleur type		MTB 8-speed	MTB 7-speed	-	-	MTB 7-speed	MTB 7-speed
Compatible with I-SPEC EV Brake Lever		✓	✓	✓	✓	-	-
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust (Non I-SPEC EV)		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	-	-
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		3	3	-	-	6	6
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable Mono Lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	✓	✓	✓	✓	✓	✓
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	-	-
Main lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin	Resin
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin	Resin
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
	Finish	-	-	-	-	Standard	Standard
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40	OT-SIS40
Average weight (g)		-	-	-	-	-	-
Note							

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Shifting Lever

Series		SHIMANO TOURNEY					
Model no.		SL-TX50-6R	SL-TX50-L	SL-TX50-LN	SL-TX30-7R	SL-TX30-6R	SL-TX30-LN
Color	1	Series color					
	2	-	-	-	-	-	-
Shifter type		Thumb Shifter Plus					
Front speeds		-	3	3 (Friction)	-	-	3 (Friction)
Rear speeds		6	-	-	7	6	-
Compatible rear derailleur type		MTB 6-speed	-	-	MTB 7-speed	MTB 6-speed	-
Compatible with I-SPEC EV Brake Lever		-	-	-	-	-	-
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust (Non I-SPEC EV)		-	-	-	-	-	-
Shifting lever cable adjust		-	✓	✓	-	-	✓
Initial lever position 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 Mono Lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	✓	✓	✓	✓	✓	✓
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Main lever body	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shifting lever outer casing		OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average weight (g)		-	-	-	-	-	-
Note							

# Shifting Lever

Series		SHIMANO TOURNEY	SHIMANO TOURNEY				
Model no.		SL-RS45-8R	SL-RS45-7R	SL-RS45-6R	SL-RS45-L	SL-RS36-7R	SL-RS36-6R
Color	1	Series color	Series color				
	2	-	-	-	-	-	-
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front speeds		-	-	-	3	-	-
Rear speeds		8	7	6	-	7	6
Compatible rear derailleur type		MTB 8-speed	MTB 7-speed	MTB 6-speed	-	MTB 7-speed	MTB 6-speed
Compatible with I-SPEC EV Brake Lever		-	-	-	-	-	-
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust (Non I-SPEC EV)		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	-	-
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		7	6	5	-	6	5
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable Mono Lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	✓	✓	✓	✓	✓	✓
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	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	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shifting 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

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Shifting Lever

Series		SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO
Model no.		SL-RS36-L	SL-RS35-7R	SL-RS35-6R	SL-RS35-L	SL-RS35-LN	SL-RV200-7R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front speeds		3	-	-	3	3 (Friction)	-
Rear speeds		-	7	6	-	-	7
Compatible rear derailleur type		-	MTB 7-speed	MTB 6-speed	-	-	MTB 7-speed
Compatible with I-SPEC EV Brake Lever		-	-	-	-	-	-
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust (Non I-SPEC EV)		-	-	-	-	-	-
Shifting lever cable adjust		✓	-	-	✓	✓	-
Initial lever position adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		-	6	5	-	-	6
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-	-	-
	Adjustable Mono Lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	✓	✓	✓	✓	✓	✓
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Steel	Resin	Resin	Resin	Resin	Resin
	Finish	Painted	Resin	Resin	Resin	Resin	Resin
Clamp bolt	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	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shifting 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			

# Shifting Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO TOURNEY TZ	SHIMANO TOURNEY TZ	SHIMANO TOURNEY TZ
Model no.		SL-RV200-6R	SL-RV200-L	SL-RV200-LN	SL-TZ500-7R	SL-TZ500-6R	SL-TZ500-LN
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	Thumb Shifter	Thumb Shifter	Thumb Shifter
Front speeds		-	3	3 (Friction)	-	-	3 (Friction)
Rear speeds		6	-	-	7	6	-
Compatible rear derailleur type		MTB 6-speed	-	-	MTB 7-speed	MTB 6-speed	-
Compatible with I-SPEC EV Brake Lever		-	-	-	-	-	-
Mount type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust (Non I-SPEC EV)		-	-	-	-	-	-
Shifting lever cable adjust		-	✓	-	-	-	-
Initial lever position 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 Mono Lever	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	✓	✓	-	✓*	✓*	✓*
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Resin	Resin	Resin	Steel	Steel	Steel
	Finish	Resin	Resin	Resin	Painted	Painted	Painted
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	Zinc plated	Zinc plated	Zinc plated
Main lever body	Material	-	-	-	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Standard	Standard	Standard	Standard	Standard	Standard
Recommended shifting 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

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

## 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
Compatible with I-SPEC EV Brake 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 bolt	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 shifting 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

## Shifting Lever (Integration Unit)

Series		XTR	XTR	SAINT	SHIMANO DEORE XT	SHIMANO DEORE XT
Model no.		SM-SL98-B-R	SM-SL98-B-L	SM-SL82-B	SM-SL78-B-R	SM-SL78-B-L
Base cover material		CFRP	CFRP	GFRP	GFRP	GFRP
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted
I-SPEC compatible		✓*	✓*	✓*	✓*	✓*
Compatible Shifting lever		SL-M980	SL-M980	SL-M820	SL-M780, SL-T780	SL-M780, SL-T780
Note		* I-SPEC B-type compatible				

# Brake Lever (Hydraulic Disc Brake)

Series		XTR	XTR	XTR	XTR	SAINT	SHIMANO DEORE XT
Model no.		BL-M9100	BL-M9120	BL-M9000	BL-M9020	BL-M820-B	BL-M8100
Brake type		Hydraulic disc brake					
Lever size (finger)		2	2	2	2	2	2
Color	1	Series color					
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake hose (Kit)		SM-BH90-SS	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBLS	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 shifting lever mount	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	✓	-
	I-SPEC II	-	-	✓	✓	-	-
	I-SPEC EV	✓	✓	-	-	-	✓
Clamp band	Open clamp	✓	✓	✓	✓	✓	✓
Shifting lever rotation angle adjust range (deg.): I-SPEC EV		60	60	-	-	-	20
Recommended brake caliper		BR-M9100 BR-M9110	BR-M9120	BR-M9000	BR-M9020	BR-M820	BR-M8100 BR-M8110 BR-M8120
Oil		SHIMANO Mineral					
Funnel bleeding		✓	✓	✓	✓	✓	✓
Clamp bolt	Material	Aluminum	Stainless steel	Aluminum	Aluminum	Stainless steel	Stainless steel
	Finish	Anodized	Painted	Anodized	Anodized	Painted	Painted
Brake lever	Material	Carbon	Aluminum	CFRP	Aluminum+CFRP	Aluminum	Aluminum
	Finish	Painted	Anodized	Painted	Painted	Anodized	Anodized
Master cylinder	Material	Magnesium	Aluminum	Magnesium	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (g) (kit for front 800 mm, w/ 160 mm recommended disc brake rotor, w/ lock ring, w/o adapter, w/ 2 bolts, w/ Resin pad)		312	385	316	360	103.2 *	392 (BR-M8100) 410 (BR-M8120)
Note		-	-	-	-	* Single item weight	-

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO DEORE XT	SLX	ZEE	SHIMANO DEORE	SHIMANO	SHIMANO
Model no.		BL-M8000	BL-M7100	BL-M640-B	BL-M6100	BL-M4100	BL-MT501
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic Disc-brake
Lever size (finger)		2	2	2	2	2	2
Color	1	Series color	Series color	Series color	Series Color	Black (SHIMANO logo)	Black
	2	-	-	-	Black (SHIMANO Logo)	-	-
	3	-	-	-	-	-	-
Brake hose (Kit)		SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBS	SM-BH90-SS	SM-BH59-JK-SS (for BR-MT410) SM-BH90-SS (for BR-MT420)	SM-BH59-JK-SS (for BR-MT500) SM-BH90-SS (for BR-MT520)
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (Kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	White	-	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
SERVO WAVE		✓	✓	✓	✓	-	✓
Reach adjust	Toolless	✓	✓	-	-	-	-
	Tool	-	-	✓	✓	✓	✓
Free stroke adjust		✓	-	-	-	-	-
Compatible shifting lever mount	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	✓	-	-	-
	I-SPEC II	✓	-	-	-	-	✓
	I-SPEC EV	-	✓	-	✓	✓	-
Clamp band	Open clamp	✓	✓	✓	✓	✓	✓
Shifting lever rotation angle adjust range (deg.) : I-SPEC EV		-	20	-	10	10	-
Recommended brake caliper		BR-M8000	BR-M7100 BR-M7110 BR-M7120	BR-M640	BR-M6100 BR-M6120	BR-MT410 BR-MT420	BR-MT500 BR-MT520
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓	✓	✓	✓	✓
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	Painted	-	-	-	-
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (g) (kit for front 800 mm, w/ 160 mm recommended disc brake rotor, w/ lock ring, w/o adapter, w/ 2 bolts, w/ Resin pad)		402.5	425 (BR-M7100) 444 (BR-M7120)	116.7 *	-	-	-
Note				* Single item weight			-

# Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BL-MT401	BL-MT402-3A	BL-MT201	BL-MT200
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (finger)		2	3	3	3
Color	1	Black (Metallic silver lever)	Black	Black	Black
	2	Black (Black lever)	Silver *	-	-
	3	-	-	-	-
Brake hose (Kit)		SM-BH59-JK-SS (for BR-MT400) SM-BH90-SS (for BR-MT420)	SM-BH59-JK-SS (for BR-MT400, BR-MT410) SM-BH90-SS (for BR-MT420)	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight	Straight
Brake hose color (Kit)	1	Black	Black	Black	Black
	2	-	-	-	-
J-Kit spec (for OEM)		✓	✓	✓	✓
SERVO WAVE		-	-	-	-
Reach adjust	Toolless	-	-	-	-
	Tool	✓	✓	✓	✓
Free stroke adjust		-	-	-	-
Compatible shifting lever mount	Clamp band	✓	✓	✓	✓
	I-SPEC B	-	-	-	-
	I-SPEC II	-	-	-	-
	I-SPEC EV	-	-	-	-
Clamp band	Open clamp	-	-	-	-
Shifting lever rotation angle adjust range (deg.): I-SPEC EV		-	-	-	-
Recommended brake caliper		BR-MT400 BR-MT420	BR-MT400 BR-MT410 BR-MT420	BR-MT200 BR-UR300	BR-MT200 BR-UR300
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓	✓	✓
Clamp bolt	Material	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated
Brake lever	Material	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Painted
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Average weight (g) (kit for front 800 mm, w/ 160 mm recommended disc brake rotor, w/ lock ring, w/o adapter, w/ 2 bolts, w/ Resin pad)		-	-	-	-
Note		-	* The option color part is master cylinder	-	-

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Brake Lever

Series		SHIMANO 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 bolt		✓
Average weight (g)		175 (/pair)
Note		For BMX

# Shifting/Brake Lever (Hydraulic Disc Brake)

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

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Shifting/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO TOURNEY TX	SHIMANO 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	
Shifting lever	Shifter type	RAPIDFIRE PLUS	RAPIDFIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
	Front speeds	-	3	-	-	-	3	
	Rear speeds	8	-	8	8	8	-	
	Compatible rear derailleur type	MTB 8-speed	-	MTB 8-speed	MTB 8-speed	MTB 8-speed	-	
	Shifting lever position adjust	-	-	-	-	-	-	
	Shifting 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	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin	Resin
		Finish	-	-	-	-	-	-
	Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin	Resin
		Finish	-	-	-	-	-	-
	Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
Finish		Standard	Standard	Standard	Standard	Standard	Standard	
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40	OT-SIS40	
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-PMS0	-	-
	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	Steel	Steel	
		Finish	Painted	Painted	Painted	Painted	Painted	
	Clamp bolt	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			

# Shifting/Brake Lever

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	-	-	-	-	-	-	
Shifting lever	Shifter type	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
	Front speeds	-	-	3	3	2	2	
	Rear speeds	7	7	-	-	-	-	
	Compatible rear derailleur type	MTB 7-speed	MTB 7-speed	-	-	-	-	
	Shifting lever position adjust	-	-	-	-	-	-	
	Shifting 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 & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	
	Finish	-	-	-	-	-	-	
Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Standard	Standard	Standard	Standard	Standard	Standard	
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
Brake lever	Compatible brake type	V-BRAKE	✓	✓ with switch*	✓	✓ with switch*	✓	✓ with switch*
		Mechanical disc brake (MTB)	✓	✓ with switch*	✓	✓ with switch*	✓	✓ with switch*
		Mechanical disc brake (Road)	-	-	-	-	-	-
		Caliper (SLR-EV)	-	-	-	-	-	-
		Caliper (NEW SUPER SLR)	-	-	-	-	-	-
		Caliper (super SLR)	-	✓ with switch	-	✓ with switch	-	✓ with switch
		Cantilever brake	-	✓ with switch	-	✓ with switch	-	✓ with switch
	Roller brake	-	✓ with switch	-	✓ with switch	-	✓ with switch	
	Recommended POWER MODULATOR	V-BRAKE	-	SM-PM40	-	SM-PM40	-	SM-PM40
		Mechanical disc brake (MTB)	-	SM-PM50	-	SM-PM50	-	SM-PM50
	Clamp band	Open clamp band	-	-	-	-	-	-
	Internal bumper stop		-	-	-	-	-	-
	Lever size (Finger)		2	4	2	4	2	4
	Brake cable type		T-type	T-type	T-type	T-type	T-type	T-type
Power adjuster		-	-	-	-	-	-	
SERVO WAVE		-	-	-	-	-	-	
Reach adjust		✓	✓	✓	✓	✓	✓	
Cable adjust		✓	✓	✓	✓	✓	✓	
Cable adjust type		Two hand	Two hand	Two hand	Two hand	Two hand	Two hand	
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Plated	Plated	Plated	
Average weight (g)		-	-	-	-	-	-	
Note			* POWER MODULATOR must be used for front brake		* POWER MODULATOR must be used for front brake		* POWER MODULATOR must be used for front brake	

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Shifting/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO		
Model no.		ST-EF41-7R	ST-EF41-6R	ST-EF41-L		
Color	1	Black	Black	Black		
	2	-	-	-		
Shifting lever	Shifter type		EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
	Front speeds		-	-	3	
	Rear speeds		7	6	-	
	Compatible rear derailleur type		MTB 7-speed	MTB 6-speed	-	
	Shifting lever position adjust		-	-	-	
	Shifting 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	-	-	-	
	Shifting lever cable	Material	Steel	Steel	Steel	
Finish		Standard	Standard	Standard		
Recommended shifting lever outer casing		OT-SIS40	OT-SIS40	OT-SIS40		
Brake lever	Compatible brake type	V-BRAKE	✓	✓	✓	
		Mechanical disc brake (MTB)	✓	✓	✓	
		Mechanical disc brake (Road)	-	-	-	
		Caliper (SLR-EV)	-	-	-	
		Caliper (NEW SUPER SLR)	-	-	-	
		Caliper (super SLR)	-	-	-	
		Cantilever brake	-	-	-	
	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		
		Finish	Painted	Painted		
Clamp bolt	Clamp bolt	Material	Steel	Steel		
		Finish	Zinc plated	Zinc plated		
Average weight (g)		-	-	-		
Note						

# Rear Derailleur

Series		XTR	XTR	XTR	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX
Model no.		RD-M9100-GS	RD-M9100-SGS	RD-M9120-SGS	RD-M8100-SGS	RD-M8120-SGS	RD-M7100-SGS
Pulley cage		GS	SGS	SGS	SGS	SGS	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 (Front double)	12
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
Top-Normal spring type	SHIMANO SHADOW RD	-	-	-	-	-	-
	SHIMANO SHADOW RD+	✓	✓	✓	✓	✓	✓
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (Conventional)	✓	✓	✓	✓	✓	✓
	Direct mount compatible	-	-	-	-	-	-
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		0T	0T	10T	0T	10T	0T
Total capacity		35T	41T	41T	41T	45T	41T
Low sprocket	Max.	45T	51T	45T	51T	45T	51T
	Min.	45T	51T	45T	51T	45T	51T
Top sprocket	Max.	10T	10T	10T	10T	10T	10T
	Min.	10T	10T	10T	10T	10T	10T
Fluoric coated link bushings		8	8	8	7	7	7
Pulley	G pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	-
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	-
	Teeth	13T	13T	13T	13T	13T	13T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Sunken type pulley bolt		✓	✓	✓	✓	✓	✓
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	CFRP	CFRP	CFRP	Aluminum	Aluminum	Steel
	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 bolt	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	284	290	316
Note		-	w/Bumper on pully cage		w/Bumper on pully cage		w/Bumper on pully cage

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Rear Derailleur

Series		SLX	SHIMANO DEORE	XTR	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE
Model no.		RD-M7120-SGS	RD-M6100-SGS	RD-M9000-SGS	RD-M8000-GS	RD-M8000-SGS	RD-M5100-SGS
Pulley cage		SGS	SGS	SGS	GS	SGS	SGS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12 (Front double)	12	11	11	11	11
Compatible chain		HG 12-speed	HG 12-speed	HG-X 11-speed	HG-X 11-speed	HG-X 11-speed	HG-X11 11-speed
Top-Normal spring type	SHIMANO SHADOW RD	-	-	-	-	-	-
	SHIMANO SHADOW RD+	✓	✓	✓	✓	✓	✓
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (Conventional)	✓	✓	✓	✓	✓	✓
	Direct mount compatible	-	-	✓*	✓*	✓*	-
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Mode converter		-	-	-	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		10T	0T	18T	10T	18T	0T
Total capacity		45T	41T	45T	39T	47T	40T
Low sprocket	Max.	45T	51T	40T(3x11-speed), 42T(2x11-speed), 46T(1x11-speed)	42T(2x11-speed), 46T(1x11-speed)	40T(3x11-speed), 42T(2x11-speed), 46T(1x11-speed)	51T
	Min.	45T	51T	40T	40T	40T	51T
Top sprocket	Max.	10T	10T	11T	11T	11T	11T
	Min.	10T	10T	11T	11T	11T	11T
Fluoric coated link bushings		7	7	4	4	4	7
Pulley	G pulley bearing	-	-	Sealed Bearing	Sealed Bearing	Sealed Bearing	-
	T pulley bearing	-	-	Sealed Bearing	Sealed Bearing	Sealed Bearing	-
	Teeth	13T	13T	11T	11T	11T	13T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Bracket	Sunken type pulley bolt	✓	✓	✓	✓	✓	✓
	Material	-	-	Aluminum	Aluminum	Aluminum	-
B-axle	Finish	-	-	Anodized	Painted	Painted	-
	Hollow axle	✓	✓	✓	✓	✓	✓
B-axle 2	Material	Stainless steel	Stainless steel	Aluminum	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	Anodized	-	-	-
Bracket body	Hollow axle	-	-	-	✓	✓	-
	Material	-	-	Aluminum	Stainless steel	Stainless steel	-
P-axle	Finish	-	-	Anodized	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Plate body	Material	Painted	Painted	Anodized	Painted	Painted	Painted
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Outer link	Finish	-	-	-	-	-	-
	Material	GFRP	GFRP	CFRP	GFRP	GFRP	GFRP
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Painted	Painted	Painted
Outer plate	Material	Aluminum	Steel	CFRP	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Anodized	Painted	Painted	Painted
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	Black	-	-	-
Stroke adjusting screw	Material	Steel	Steel	Aluminum	Steel	Steel	Steel
	Finish	Plated	Plated	Anodized	Plated	Plated	Plated
Average weight (g)		322	-	224	271	275	-
Note				* w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available ** For 3x11-speed, Max 40T for 2x11-speed, Max 42T for 1x11-speed, Max 46T	

# Rear Derailleur

Series		SHIMANO DEORE	SHIMANO DEORE	SAINT	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX
Model no.		RD-M5120-SGS	RD-M4120-SGS	RD-M820-SS	RD-M781-SGS	RD-M786-SGS	RD-M7000-10-SGS
Pulley cage		SGS	SGS	SS	SGS	SGS	SGS
Color	1	Series color	Series color	Series color	Silver	Silver	Series color
	2	-	-	-	Black	Black	-
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
Top-Normal spring type	SHIMANO SHADOW RD	-	✓	-	✓	-	-
	SHIMANO SHADOW RD+	✓	-	✓	-	✓	✓
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (Conventional)	✓	✓	✓	✓	✓	✓
	Direct mount compatible	✓	✓	✓*	✓*	✓*	✓*
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Mode converter		-	-	✓	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		10T	10T	Single	22T	22T	22T
Total capacity		41T	41T	25T	43T	43T	43T
Low sprocket	Max.	46T (1x10-speed) 42T (2x11/ 2x10-speed)	42T	28/36T	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	4	4	2
Pulley	G pulley bearing	-	-	-	Sealed Bearing	Sealed Bearing	-
	T pulley bearing	-	-	Sealed Bearing	Sealed Bearing	Sealed Bearing	-
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	✓	✓	✓	✓	✓	✓
Bracket	Material	Steel	Steel	Aluminum	Aluminum	Aluminum	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	Aluminum	Aluminum	Steel
	Finish	-	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Steel	Aluminum	Aluminum	Aluminum	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 bolt	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)	238	266	313
Note				* w/o Bracket spec. available			

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Rear Derailleur

Series		SLX	SLX	ZEE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Model no.		RD-M670-GS	RD-M670-SGS	RD-M640-SS	RD-M6000-GS	RD-M6000-SGS	RD-M610-GS
Pulley cage		GS	SGS	SS	GS	SGS	GS
Color	1	Series color	Series color	Series color	Series Black	Series Black	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
Top-Normal spring type	SHIMANO SHADOW RD	✓	✓	-	-	-	✓
	SHIMANO SHADOW RD+	-	-	✓	✓	✓	-
	Double servo	-	-	-	-	-	-
Mount	Direct attachment (Conventional)	✓	✓	✓	✓	✓	✓
	Direct mount compatible	✓*	✓*	✓	✓*	✓*	✓*
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Mode converter		-	-	-*	-	-	-
Cable adjuster		-	-	-	-	-	-
Max. front difference		18T	22T	Single	10T	22T	18T
Total capacity		35T	43T	25T	41T	43T	35T
Low sprocket	Max.	36T	36T	36T(Freeride spec), 28T(DH spec)	42T	36T	36T
	Min.	32T	32T	23T	42T	32T	32T
Top sprocket	Max.	11T	11T	12T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		3	3	3	4	3	3
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Sunken type pulley bolt		✓	✓	✓	✓	✓	✓
Bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
B-axle	Hollow axle	✓	✓	✓	✓	✓	✓
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
B-axle 2	Hollow axle	-	-	-	✓	✓	✓
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	Painted	-	-
Plate body	Material	Aluminum	Aluminum	Aluminum	GFRP	Aluminum	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	Steel	Steel	Steel	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Steel	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel
	Finish	-	-	-	Plated	Plated	Plated
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Average weight (g)		278	281	275	-	-	-
Note		* w/o Bracket spec. available	* w/o Bracket spec. available	* Freeride spec. and DH spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available

# Rear Derailleur

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO ALIVIO	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ACERA	
Model no.		RD-M610-SGS	RD-M592-SGS	RD-M3100-SGS	RD-M2000	RD-M370-SGS	RD-M360-SGS	
Pulley cage		SGS	SGS	SGS	SGS	SGS	SGS	
Color	1	Black	Series color	Series color	Series color	Black	Black	
	2	Silver	-	-	-	Silver	Silver	
Rear speeds		10	9	9	9	9	8/7	
Compatible chain		HG-X 10-speed	HG 9-speed	CN-HG53 9-speed	HG 9-speed	HG 9-speed	HG 8/7-speed	
Top-Normal spring type	SHIMANO SHADOW RD	✓	✓	✓	✓	-	-	
	SHIMANO SHADOW RD+	-	-	-	-	-	-	
	Double servo	-	-	-	-	✓	✓	
Mount	Direct attachment (Conventional)	✓	✓	✓	✓	✓	✓	
	Direct mount compatible	✓*	-	-	-	-	-	
	Riveted adapter (Road type)	-	-	-	-	-	-	
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-	
Mode converter		-	-	-	-	-	-	
Cable adjuster		-	-	✓	✓	✓	✓	
Max. front difference		22T	22T	22T	22T	22T	20T	
Total capacity		43T	45T	45T	45T	45T	43T	
Low sprocket	Max.	36T	36T	36T	36T	34T	34T	
	Min.	32T	32T	32T	32T	28T	28T	
Top sprocket	Max.	11T	12T	12T	12T	11T	14T	
	Min.	11T	11T	11T	11T	11T	11T	
Fluor coated link bushings		3	3	1	-	-	1	
Pulley	G pulley bearing	-	-	-	-	-	-	
	T pulley bearing	-	-	-	-	-	-	
	Teeth	11T	11T	11T	11T	11/11T	13/13T	
	Bolts material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel	
	Sunken type pulley bolt	✓	✓	✓	✓	✓ (Guide pulley) - (Tension pulley)	-	
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	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	Aluminum	Aluminum	PA-GF	PA-GF	Resin	Resin	
	Finish	Painted	Painted	-	-	Painted	- (Black) Painted (Silver)	
Outer link	Material	Aluminum	Aluminum	PA-GF	PA-GF	Steel	Steel	
	Finish	Painted	Painted	-	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Zinc plated	Painted	Zinc plated	
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Zinc plated	
Cable fixing bolt	Material	Steel	Steel	Stainless steel	Stainless steel	Steel	Steel	
	Finish	Plated	Plated	-	-	Zinc plated	Zinc plated	
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Zinc plated	Zinc plated	Zinc plated	
Average weight (g)		-	-	-	-	-	-	
Note		* w/o Bracket spec. available						

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Rear Derailleur

Series		SHIMANO ALTUS	SHIMANO TOURNEY TX	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY
Model no.		RD-M310-Smart	RD-TX800	RD-TY500-SGS	RD-TY300-SGS	RD-TY200-SS	RD-TY200-GS
Pulley cage		Smart	SGS	SGS	SGS	SS	GS
Color	1	Black	Black	Series color	Series color	Black	Black
	2	Silver	Silver	-	-	-	-
Rear speeds		8/7	8/7	7/6	7/6	7/6 (Front single)	7/6
Compatible chain		HG 8/7-speed	HG 8/7-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed
Top-Normal spring type	SHIMANO SHADOW RD	-	-	-	-	-	-
	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	✓	✓	✓	✓	-	-
Mount	Direct attachment (Conventional)	✓	✓	✓	✓	✓	✓
	Direct mount compatible	-	-	-	-	-	-
	Riveted adapter (Road type)	-	-	✓	✓	✓	✓
	Riveted adapter (BMX-Track type)	-	-	✓	✓	✓	-
Mode converter		-	-	-	-	-	-
Cable adjuster		✓	✓	✓	✓	✓	✓
Max. front difference		20T	20T	20T	20T	0T	20T
Total capacity		43T	43T	43T	43T	20T	34T
Low sprocket	Max.	34T	34T	34T	34T	34T	28T
	Min.	28T	28T	28T	28T	28T	28T
Top sprocket	Max.	14T	14T	14T	14T	14T	14T
	Min.	11T	11T	11T	11T	12T	14T
Fluoric coated link bushings		-	-	-	-	-	-
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	13/15T	13/13T	13/13T	13/13T	11T/11T	11/11T
	Bolts material	Steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley bolt	-	-	-	-	-	-
Bracket	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
B-axle	Hollow axle	-	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
	Finish	-	-	Zinc plated	Zinc plated	Black	Black
B-axle 2	Hollow axle	-	-	-	-	-	-
	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Resin	Resin	Resin	Resin	Resin
	Finish	Painted	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	Painted	Painted
Inner link	Material	Steel	Steel	Resin	Steel	Resin	Resin
	Finish	Zinc plated	Zinc plated	-	Zinc plated	Painted	Painted
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Painted	Painted	Painted	Painted
Cable fixing bolt	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		SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY TZ
Model no.		RD-TY21-B-SS	RD-TY21-B-GS	RD-TZ500-GS
Pulley cage		SS	GS	GS
Color	1	Black	Black	Series color
	2	Silver	Silver	-
Rear speeds		6	6	6
Compatible chain		HG-UG 6-speed	HG-UG 6-speed	HG-UG 6-speed
Top-Normal spring type	SHIMANO SHADOW RD	-	-	-
	SHIMANO SHADOW RD+	-	-	-
	Double servo	-	-	-
Mount	Direct attachment (Conventional)	✓	✓	✓
	Direct mount compatible	-	-	-
	Riveted adapter (Road type)	✓	✓	✓
	Riveted adapter (BMX-Track type)	-	-	-
Mode converter		-	-	-
Cable adjuster		✓	✓	✓
Max. front difference		13T	20T	20T
Total capacity		28T	34T	34T
Low sprocket	Max.	28T	28T	28T
	Min.	28T	28T	28T
Top sprocket	Max.	14T	14T	14T
	Min.	14T	14T	14T
Fluoroc coated link bushings		-	-	-
Pulley	G pulley bearing	-	-	-
	T pulley bearing	-	-	-
	Teeth	11/11T	11/11T	11/11T
	Bolts material	Steel	Steel	Steel
	Sunken type pulley bolt	-	-	-
Bracket	Material	-	-	-
	Finish	-	-	-
B-axle	Hollow axle	-	-	-
	Material	Steel	Steel	Steel
	Finish	Black	Black	Black
B-axle 2	Hollow axle	-	-	-
	Material	-	-	-
	Finish	-	-	-
Bracket body	Material	Resin	Resin	Steel
	Finish	-	-	Painted
P-axle	Material	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated
Plate body	Material	Resin	Resin	Resin
	Finish	-	-	-
Outer link	Material	Steel	Steel	Steel
	Finish	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)	Painted
Inner link	Material	Steel	Steel	Steel
	Finish	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)	Zinc plated
Outer plate	Material	Steel	Steel	Steel
	Finish	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)	Painted
Inner plate	Material	Steel	Steel	Steel
	Finish	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)	Painted
Cable fixing bolt	Material	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated
Stroke adjusting screw	Material	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated
Average weight (g)		-	-	-
Note				

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Front Derailleur

Series		XTR	XTR	XTR	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO 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	-	-	-	-	-	-
Speeds	Front	2	2	2	2	2	2
	Rear	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.)
Chain stay angle		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 bolt		-	-	-	-	-	-
Angled stroke adjust bolt		✓	✓	✓	✓	✓	✓
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 bolt	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 bolt	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/ bolt)		110	88	99	135	106	114
Note		-	-	* S-size adapter is available in OTC package only Chain line 48.8 mm, 51.8 mm compatible	-	-	* S-size adapter is available in OTC package only Chain line 48.8 mm, 51.8 mm compatible

# Front Derailleur

Series		SLX	SLX	SLX	SLX	SLX	SLX	
Model no.		FD-M7100-D	FD-M7100-E	FD-M7100-M	FD-M7025-11-D	FD-M7025-11-H	FD-M7025-11-L	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	2	2	2	
	Rear	12	12	12	11	11	11	
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG-X11	HG-X11	HG-X11	
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	
Chain stay angle		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 bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		✓	✓	✓	✓	✓	✓	
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 bolt	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 bolt	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/ bolt)		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.	

- SL
- SLMT
- SMSL
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

# Front Derailleur

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO 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	-	-	
Speeds	Front	2	2	2	2	3	3	
	Rear	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	
Chain stay angle		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 bolt		✓	✓	-	-	-	-	
Angled stroke adjust bolt		✓	✓	✓	✓	✓	✓	
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 bolt	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 bolt	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/ bolt)		136	127	155	146	152	166	
Note		* Outer casing stopper integrated design.				* Outer casing stopper integrated design.		

# Front Derailleur

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX	SLX	SHIMANO 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	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	3	
	Rear	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 10speed	
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	
Chain stay angle		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 bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		✓	✓	-	✓	✓	✓	
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 bolt	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 bolt	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/ bolt)		155	147	160	155	158	-	
Note					* Outer casing stopper integrated design.			

- SL
- SLMT
- SMSL
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

# Front Derailleur

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO 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	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	2	2	
	Rear	10	10	10	10	10	10	
Compatible chain		HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	HG-X 10speed	
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	
Chain stay angle		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 bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		✓	✓	✓	✓	✓	✓	
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 bolt	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 bolt	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/ bolt)		-	-	-	-	-	-	
Note								

# Front Derailleur

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO 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	-	-	-	-	-	-	
Speeds	Front	2	2	2	2	2	2	
	Rear	10	11	11	11	10	10	
Compatible chain		HG-X 10speed	HG-X11 11-speed	HG-X11 11-speed	HG-X11 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	
Chain stay angle		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 bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		✓	✓	✓	✓	✓	✓	
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 bolt	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 bolt	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/ bolt)		-	-	-	-	-	-	
Note		* Compatible with the special crankset which chain line is 3 mm outboard.			* S-size adapter is available in OTC package only.			

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Front Derailleur

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO 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	-	-	-	-	-	-	
Speeds	Front	2	2	2	2	2	2	
	Rear	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*	
Chain stay angle		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 bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		✓	✓	✓	✓	✓	✓	
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 bolt	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 bolt	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/ bolt)		-	-	-	-	-	-	
Note		* S-size adapter is available in OTC package only.			* Compatible with the special crankset which chain line is 3 mm outboard.	* Compatible with the special crankset which chain line is 3 mm outboard.	* Compatible with the special crankset which chain line is 3 mm outboard.	

# Front Derailleur

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO 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	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	2	2	
	Rear	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	
Chain stay angle		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 bolt		✓	✓	-	-	✓	✓	
Angled stroke adjust bolt		✓	✓	✓	✓	✓	✓	
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 bolt	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 bolt	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/ bolt)		-	-	-	-	-	-	
Note								

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Front Derailleur

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	
Model no.		FD-M616-B	FD-M616-D	FD-M4020-M	FD-M4000-DS6	FD-M3100-M	FD-M3120-D	
Color	1	Black	Black	Series color	Black	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	3	3	2	
	Rear	10	10	9	9	9	9	
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	CN-HG53 9-speed	CN-HG53 9-speed	
Action	TOP SWING	-	-	-	-	-	-	
	Down Swing	✓	✓	-	✓	-	-	
	SIDE SWING	-	-	✓	-	✓	✓	
Mount	Clamp Band (mm)	28.6	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9	✓	-	✓	✓	✓	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct Mount	-	✓	-	-	-	✓	
Cable route type	Dual-Pull	✓	✓	-	✓	-	-	
	Top-Pull exclusive	✓	✓	-	-	-	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	✓	-	✓	✓	
Chain line (mm)		48.8	48.8	48.8	50	50	48.8/51.8	
Chain stay angle		66-69	66-69	64-69	66-69	66-69	64-69	
Top gear teeth		38-44T	38-44T	36T	40T	40T	36T	
Total capacity		14T	14T	14T	18T	18T	14T	
Applicable Top-Mid tooth difference		-	-	-	10T	10T	-	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		✓	✓	✓	✓	✓	✓	
Angled clamp band design		✓	-	-	✓	✓	✓	
Link bushings		8	8	4	2	4	4	
Front clamp band	Material	Aluminum	-	Steel	Steel	Steel	-	
	Finish	Painted	-	Painted	Painted	Painted	-	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	-	Stainless steel	Stainless steel	Steel	Steel	
	Finish	-	-	-	-	-	-	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Aluminum	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	Pearl Bright	Pearl Bright	Chrome plated	Chrome plated	Chrome Plated	Chrome Plated	
Cable fixing bolt	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	-	-	
	Finish	-	-	-	-	-	-	
Average weight (g) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note								

# Front Derailleur

Series		SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ACERA	SHIMANO ALTUS	SHIMANO ALTUS	
Model no.		FD-M3120-E	FD-M3120-M	FD-M3120-M-B	FD-M3000-TS6	FD-M2020-TS	FD-M2000-TS3	
Color	1	Series color	Series color	Series color	Black	Series color	Black	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	3	2	3	
	Rear	9	9	9	9	9	9	
Compatible chain		CN-HG53 9-speed	CN-HG53 9-speed	CN-HG53 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)					
		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	50	48.8/51.8*	50	
Chain stay angle		64-69	64-69	64-69	66-69	64-69	63-66	
Top gear teeth		36T	36T	36T	40T	36T	40T	
Total capacity		14T	14T	14T	18T	14T	18T	
Applicable Top-Mid tooth difference		-	-	-	10T	-	10T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		✓	✓	✓	✓	✓	✓	
Angled clamp band design		✓	✓	✓	✓	✓	✓	
Link bushings		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	Aluminum	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Stainless steel	Steel	Steel	
	Finish	-	-	-	-	Nickel Plated	Nickel Plated	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Zinc plated	Zinc plated	
Inner link	Material	Aluminum	Aluminum	Aluminum	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 bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stroke adjusting screw	Material	-	-	-	Steel	Steel	Steel	
	Finish	-	-	-	Zinc plated	Zinc plated	Zinc plated	
Average weight (g) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note						* Boost Spec		

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Front Derailleur

Series		SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	
Model no.		FD-M2000-TS6	FD-M2000-DS3	FD-M2000-DS6	FD-M370-3	FD-M370-6	FD-M371-3	
Color	1	Series color	Black	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	3	
	Rear	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)					
		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)		50	50	50	50	50	50	
Chain stay angle		66-69	63-66	66-69	63-66	66-69	63-66	
Top gear teeth		40T	40T	40T	44T/48T	44T/48T	44T/48T	
Total capacity		18T	18T	18T	22T	22T	22T	
Applicable Top-Mid tooth difference		10T	10T	10T	12T	12T	12T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		✓	✓	✓	-	-	-	
Angled clamp band design		✓	✓	✓	✓	✓	✓	
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	Aluminum	Aluminum	Steel	Steel	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	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	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted/Zinc plated	Painted/Zinc plated	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 bolt	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel	
	Finish	-	-	-	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/ bolt)		-	-	-	-	-	-	
Note								

# Front Derailleur

Series		SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	
Model no.		FD-M371-6	FD-M315-TS	FD-M313-3	FD-M313-6	FD-M310-3	FD-M310-6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	2	3	3	3	3	
	Rear	9	8/7	8/7	8/7	8/7	8/7	
Compatible chain		HG 9-speed	HG 8/7-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)		50	48.8/51.8*	47.5/50	47.5/50	47.5/50	47.5/50	
Chain stay angle		66-69	64-69	63-66	66-69	63-66	66-69	
Top gear teeth		44T/48T	36T	42T/48T	42T/48T	42T/48T	42T/48T	
Total capacity		22T	14T	20T	20T	20T	20T	
Applicable Top-Mid tooth difference		12T	-	10T	10T	10T	10T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		-	✓	-	-	-	-	
Angled clamp band design		✓	✓	✓	✓	✓	✓	
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	Steel	Aluminum	Aluminum	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	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	Zinc plated	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing bolt	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/ bolt)		-	-	-	-	-	-	
Note			* Boost spec.					

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Front Derailleur

Series		SHIMANO TOURNEY TX	SHIMANO TOURNEY TX	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	
Model no.		FD-TX800-TS3	FD-TX800-TS6	FD-TY700-TS3	FD-TY700-TS6	FD-TY710-2-TS3	FD-TY710-TS3	
Color	1	Black	Series color	Black	Black	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	2	3	
	Rear	8/7	8/7	8/7	8/7	8/7	8/7	
Compatible chain		HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-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)		47.5/50	47.5/50	47.5/50	47.5/50	48.8	47.5/50	
Chain stay angle		63-66	66-69	63-66	66-69	63-68	63-66	
Top gear teeth		42T/48T	42T/48T	42T	42T	46T	48T	
Total capacity		20T	20T	18T	18T	16T	20T	
Applicable Top-Mid tooth difference		10T	10T	8T	8T	-	10T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		-	-	-	-	-	-	
Angled clamp band design		✓	✓	✓	✓	✓	✓	
Link bushings		-	-	-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	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	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	Chrome plated	Chrome plated	
Cable fixing bolt	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/ bolt)		-	-	-	-	-	-	
Note								

# Front Derailleur

Series		SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	
Model no.		FD-TY710-TS6	FD-TY500-TS3	FD-TY500-TS6	FD-TY510-TS3	FD-TY510-TS6	FD-TY300-DS6	
Color	1	Black	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	3	
	Rear	8/7	7/6	7/6	7/6	7/6	7/6	
Compatible chain		HG 8/7-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	
Action	TOP SWING	✓	✓	✓	✓	✓	-	
	Down Swing	-	-	-	-	-	✓	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp Band (mm)	28.6	✓ (w/ S size adapter)	✓				
		31.8	✓ (w/ M size adapter)	✓				
		34.9	✓	✓	✓	✓	✓	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct Mount	-	-	-	-	-	-	
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	
Chain stay angle		66-69	63-66	66-69	63-66	66-69	66-69	
Top gear teeth		48T	42T	42T	48T	48T	42T	
Total capacity		20T	18T	18T	20T	20T	18T	
Applicable Top-Mid tooth difference		10T	8T	8T	10T	10T	8T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		-	-	-	-	-	-	
Angled clamp band design		✓	✓	✓	✓	✓	-	
Link bushings		-	-	-	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Painted	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Painted	
Clamp bolt	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/Resin	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Zinc plated	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated/ Painted	Chrome plated/ Painted	Chrome plated/ Painted	Chrome plated/ Painted	Zinc plated	
Cable fixing bolt	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/ bolt)		-	-	-	-	-	-	
Note								

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Front Derailleur

Series		SHIMANO TOURNEY	SHIMANO TOURNEY TZ	SHIMANO TOURNEY TZ	
Model no.		FD-TY300-DS6	FD-TZ500-DS6	FD-TZ510-DS6	
Color	1	Series color	Series color	Series color	
	2	-	-	-	
Speeds	Front	3	3 (friction)	3 (friction)	
	Rear	7/6	7/6	7/6	
Compatible chain		HG-UG 7/6-speed	HG-UG 7/6-speed	HG-UG 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	-	-	-		
Cable route type	Dual-Pull	-	-	-	
	Top-Pull exclusive	✓	✓	✓	
	Down-Pull exclusive	✓	✓	✓	
	Front-Pull	-	-	-	
Chain line (mm)		50	47.5	47.5	
Chain stay angle		66-69	66-69	66-69	
Top gear teeth		42T	42T	48T	
Total capacity		18T	18T	20T	
Applicable Top-Mid tooth difference		8T	8T	10T	
Multi access cable fixing bolt		-	-	-	
Angled stroke adjust bolt		-	-	-	
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 bolt	Material	Steel	Steel	Steel	
	Finish	Nickel plated	Zinc plated	Zinc plated	
Bottom bracket plate	Material	-	-	-	
	Finish	-	-	-	
Outer link	Material	Steel/Resin	Steel/Resin	Steel/Resin	
	Finish	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	
	Finish	Zinc plated	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	
	Finish	Zinc plated	Painted	Painted	
Cable fixing bolt	Material	Steel	Steel	Steel	
	Finish	Nickel plated	Zinc plated	Zinc plated	
Stroke adjusting screw	Material	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	
Average weight (g) (Band type: L size, direct type w/ bolt)		-	-	-	
Note					

# Brake (Hydraulic Disc Brake)

Series		XTR	XTR	XTR	XTR	XTR	SAINT
Model no.		BR-M9100	BR-M9110-R	BR-M9120	BR-M9000	BR-M9020	BR-M820
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-SBM	SM-BH90-SBM	SM-BH90-SBLS
Hose joint		Straight	Straight	Banjo	Banjo	Banjo	Banjo
Brake hose color (Kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	White
J-Kit spec (for OEM)		✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		-	✓	✓	✓	✓	✓
Pad	Standard 1	K03Ti Resin pad w/o fin (w/ titanium back plate)	K03Ti Resin (w/o fin)	N03A Resin pad (w/ radiator fin)	G02A Resin G03A Resin	J02A Resin J03A Resin	H01A Resin H03A Resin
	Standard 2	K04Ti Metal pad w/ o fin (w/ titanium back plate)	K04Ti Metal (w/o fin)	N04C Metal pad (w/ radiator fin)	G04Ti Metal	J04C Metal	H03C Metal
	Option 1	-	-	-	J02A Resin J03A Resin	G02A Resin G03A Resin	-
	Option 2	-	-	-	J04C Metal	G04Ti Metal	-
Fixing bolt 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-M9000	BL-M9020	BL-M820
Recommended disc brake rotor		RT-MT900	RT-MT900	RT-MT900	SM-RT99 * SM-RT99-A	SM-RT99 * SM-RT99-A	SM-RT99 SM-RT86
Compatible Brake Rotor Size	140 mm (SS)	✓	✓	✓	✓	✓	✓
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	✓	-	✓	✓	✓	✓
	203 mm (L)	-	-	✓	✓	✓	✓
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	Post-type
Piston		2	2	4	2	2	4
Piston material		Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Caliper	MONO-BODY	✓	-	-	-	✓	-
	Material	Aluminum	Aluminum	Aluminum	Magnesium	Aluminum	Aluminum
	Finish	Anodizing	Anodizing	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Ti	Steel	Ti	Ti	Ti	Steel
	Tool size	** 4 mm	4 mm	** 4 mm	** 4 mm	** 4 mm	5 mm
	Anti loosen method	Wiring	Bolt fix pin/Snap ring	Wiring	Wiring	Wiring	Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g) (kit for front 800 mm, w/ 160 mm recommended disc brake rotor, w/ lock ring, w/o adapter, w/ 2 bolts, w/ resin pad)		312	341	385 (w/ radiator fin)	316.1	359.6	306 ** (w/ radiator fin)
Note		** Titanium	For rear only. 140 mm disc brake rotor direct mount	** Titanium	* 140 mm for rear only ** Titanium	* 140 mm for rear only ** Titanium	** Single item weight

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Brake (Hydraulic Disc Brake)

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX
Model no.		BR-M8100	BR-M8110-R	BR-M8120	BR-M8000	BR-M8020	BR-M7100
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-SS	SM-BH90-SBM	SM-BH90-SB	SM-BH90-SBLS	SM-BH90-SBM
Hose joint		Banjo	Straight	Banjo	Banjo	Banjo	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	G03A Resin (w/o fin)	K03S Resin (w/o fin)	N03A Resin (w/ fin)	G02A Resin G03A Resin	H01A Resin H03A Resin	G03S Resin (w/o fin)
	Standard 2	G04S Metal (w/o fin)	K04S Metal (w/o fin)	N04C Metal (w/ fin)	J02A Resin J03A Resin	H03C Metal	G04S Metal (w/o fin)
	Option 1	J03A Resin (w/ fin)	L03A Resin (w/ fin)	D03S Resin (w/o fin)	G04S Metal	D01S Resin D03S Resin	J03A Resin (w/ fin)
	Option 2	J04C Metal (w/ fin)	L04C Metal (w/ fin)	D02S Metal (w/o fin)	J04C Metal	-	J04C Metal (w/ fin)
Fixing bolt 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-M8100	BL-M8100 BL-T8100	BL-M8000 BL-T8000	BL-M8000	BL-M7100
Recommended disc brake rotor		RT-MT800	RT-MT800	RT-MT800	RT-MT800 SM-RT86	RT-MT800 SM-RT99 RT-EM810 RT-EM910	SM-RT70
Compatible Brake Rotor Size	140 mm (SS)	✓	✓	✓	✓	✓	✓
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	✓	✓	✓	✓	✓	✓
	203 mm (L)	✓	-	✓	✓	✓	✓
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	Post-type
Piston		2	2	4	2	4	2
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 bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	5 mm	4 mm	5 mm	5 mm	5 mm	5 mm
	Anti loosen method	Snap ring	Bolt fix pin/Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g) (kit for front 800 mm, w/ 160 mm recommended disc brake rotor, w/ lock ring, w/o adapter, w/ 2 bolts, w/ resin pad)		392	417	410	402.5	-	425
Note		-	For rear only.	-	-	-	-

# Brake (Hydraulic Disc Brake)

Series		SLX	SLX	ZEE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Model no.		BR-M7110-R	BR-M7120	BR-M640	BR-M6100	BR-M6120	BR-M6000
Color	1	Series color	Series color	Series color	Series Color	Series Color	Series 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-SBM	SM-BH90-SBS	SM-BH90-SS	SM-BH90-SS	SM-BH90-SS
Hose joint		Straight	Banjo	Banjo	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	K03S Resin (w/o fin)	D03S Resin (w/o fin)	D01S Resin D03S Resin	G03S Resin	D03S Resin	G02S Resin, G03S Resin
	Standard 2	K04S Metal (w/o fin)	N03A Resin (w/ fin)	D02S Metal	J03A Resin	-	J02A Resin ** J03A Resin **
	Option 1	L03A Resin (w/ fin)	D02S Metal (w/o fin)	H01A Resin H03A Resin	G04S Metal	D02S Metal	G04S Metal **
	Option 2	L04C Metal (w/ fin)	N04C Metal (w/ fin)	-	-	-	-
Fixing bolt Spec for rear mount	10 mm mount	-	-	-	-	-	-
	15 mm mount	-	-	-	-	-	-
	20 mm mount	✓	-	-	-	-	-
	25 mm mount	✓	-	-	-	-	-
	30 mm mount	✓	-	-	-	-	-
	35 mm mount	-	-	-	-	-	-
Recommended brake lever		BL-M7100	BL-M7100	BL-M640	BL-M6100	BL-M6100	BL-M6100 BL-MT501 BL-T6000
Recommended disc brake rotor		SM-RT70	SM-RT70	SM-RT66	SM-RT54* SM-RT56* SM-RT64 SM-RT66	SM-RT54* SM-RT56* SM-RT64 SM-RT66	SM-RT64 SM-RT66 SM-RT54 SM-RT56
Compatible Brake Rotor Size	140 mm (SS)	✓	✓	✓	✓	✓	✓
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	✓	✓	✓	✓	✓	✓
	203 mm (L)	-	✓	✓	✓	✓	✓
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	-	✓	✓	✓	✓
Mount type		Flat mount	Post-type	Post-type	Post-type	Post-type	Post-type
Piston		2	4	4	2	4	2
Piston material		Ceramic	Ceramic	Ceramic	Resin	Ceramic	Resin
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	4 mm	5 mm	5 mm	5 mm	5 mm	5 mm
	Anti loosen method	Bolt fix pin/Snap ring	Snap ring	Snap ring	Snap ring	Snap ring	Snap ring
Pad mount		Pad axle	Pad axle	Split pin	Split pin Stainless Steel	Split pin Stainless Steel	Split pin (stainless steel)
Average weight (g) (kit for front 800 mm, w/ 160 mm recommended disc brake rotor, w/ lock ring, w/o adapter, w/ 2 bolts, w/ resin pad)		443	444	314 **	-	-	-
Note		For rear only.	-	** Single item weight	*: 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

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Brake (Hydraulic Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-MT520	BR-MT500	BR-MT420	BR-MT410	BR-MT400	BR-MT200
Color	1	Black	Black	Black	Black (SHIMANO logo)	Black	Black
	2	-	-	-	-	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-SS	SM-BH59-JK-SS	SM-BH90-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)		✓	✓	✓	✓	✓	✓
ICE TECHNOLOGIES pad compatible caliper		-	-	-	-	-	-
Pad	Standard 1	D03S resin	B01S resin	D03S Resin	B01S Resin	B01S Resin	B01S Resin
	Standard 2	D02S Metal	-	D02S Metal	-	-	-
	Option 1	-	-	-	-	-	-
	Option 2	-	-	-	-	-	-
Fixing bolt 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-MT501	BL-MT500	BL-MT401 BL-MT402-3A	BL-M4100	BL-MT400 BL-MT401 BL-MT402-3A	BL-MT201 BL-MT200
Recommended disc brake rotor		SM-RT70	SM-RT54 SM-RT56	SM-RT30 * SM-RT54 * SM-RT56 * SM-RT64	SM-RT30* SM-RT54* SM-RT56*	SM-RT30 SM-RT54 SM-RT56	SM-RT10 SM-RT26
Compatible Brake Rotor Size	140 mm (SS)	✓	-	✓	-	-	-
	160 mm (S)	✓	✓	✓	✓	✓	✓
	180 mm (M)	✓	✓	✓	✓	✓	✓
	203 mm (L)	✓	-	✓	✓	-	-
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓	✓
Mount type		Post-type	Post-type	Post-type	Post-type	Post-type	Post-type
Piston		4	2	4	2	2	2
Piston material		Ceramic	Resin	Resin	Resin	Resin	Resin
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing bolt	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	Split pin (stainless steel)	Split pin	Split pin Stainless Steel	Split pin	Split pin
Average weight (g) (kit for front 800 mm, w/ 160 mm recommended disc brake rotor, w/ lock ring, w/o adapter, w/ 2 bolts, w/ resin pad)		-	-	-	-	-	-
Note		-	-	* Only compatible with resin pad	* Only compatible with resin pad	-	-

# Brake (Hydraulic Disc Brake)

Series		SHIMANO
Model no.		BR-UR300
Color	1	Black
	2	-
	3	-
Brake type		Hydraulic disc brake
Brake hose (Kit)		SM-BH59-JK-SS
Hose joint		Straight
Brake hose color (Kit)	1	Black
	2	-
J-Kit spec (for OEM)		✓
ICE TECHNOLOGIES pad compatible caliper		-
Pad	Standard 1	B01S Resin
	Standard 2	-
	Option 1	-
	Option 2	-
Fixing bolt Spec for rear mount	10 mm mount	✓
	15 mm mount	✓
	20 mm mount	✓
	25 mm mount	✓
	30 mm mount	✓
	35 mm mount	✓
Recommended brake lever		BL-MT201 BL-MT200
Recommended disc brake rotor		SM-RT10 SM-RT26
Compatible Brake Rotor Size	140 mm (SS)	-
	160 mm (S)	✓
	180 mm (M)	✓
	203 mm (L)	-
Oil		SHIMANO Mineral
ONE WAY BLEEDING		✓
Mount type		Flat mount
Piston		2
Piston material		Resin
Caliper	MONO-BODY	-
	Material	Aluminum
	Finish	Painted
Caliper fixing bolt	Material	Steel
	Tool size	5 mm
	Anti loosen method	Snap ring, bolt fix pin
Pad mount		Split pin
Average weight (g) (kit for front 800 mm, w/ 160 mm recommended disc brake rotor, w/ lock ring, w/o adapter, w/ 2 bolts, w/ resin pad)		-
Note		-

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

## Brake (Mechanical Disc Brake)

Series		SHIMANO	SHIMANO TOURNEY TX
Model no.		BR-M375	BR-TX805
Color	1	Black	Black
	2	-	-
	3	-	-
Brake type		Mechanical disc brake	Mechanical disc brake
ICE TECHNOLOGIES pad compatible caliper		-	-
Pad	Standard 1	B01S Resin	B01S Resin
	Standard 2	-	-
	Option 1	-	-
	Option 2	-	-
Recommended brake lever		V-BRAKE BL (1.5-2.5 finger)	V-BRAKE BL (1.5-2.5 finger)
Recommended disc brake rotor		SM-RT10, SM-RT30, SM-RT26	SM-RT10, SM-RT26
Mount type (available for international standard mount with mount adapter)		Post-type	Post-type
Piston		1	1
Piston material		-	-
Caliper	MONO-BODY	-	-
	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel
	Tool size	5 mm	5 mm
	Anti loosen method	Snap ring	Snap ring
Pad mount		Split pin	Split pin
Average weight (g)		-	-
Note			

## Brake (V-BRAKE)

Series		SHIMANO 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 bolt length (mm)	16	✓
	25	✓
Fixing bolt	Material	Stainless steel
	Finish	Plated
	Chamfered bolt	✓
POWER MODULATOR		✓ (option SM-PM70)
Linear spring		✓
Stainless cable fixing bolt		✓
Average weight (g)		184
Note		

# Crankset

Series		XTR	XTR	XTR	XTR	XTR	SHIMANO DEORE XT
Model no.		FC-M9100-2	FC-M9120-B2	FC-M9100-1	FC-M9120-1	FC-M9130-1	FC-M8100-2
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	52	56.5	48.8
O.L.D. Thru (mm)		142	148	142, 148	142, 148	157	142
O.L.D. QR/Nut (mm)		135	141	135, 141	135, 141	-	135
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	30T, 32T, 34T	36-26T
Q-factor (mm)		162	168	162	168	171	172
Crank arm length (mm)	165.0	✓	✓	✓	✓	✓	✓
	167.5	-	-	-	-	-	-
	170.0	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175.0	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
Optional chain guard	180.0	-	-	-	-	-	✓
	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	BB-MT800
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	BB-MT800-PA
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded bottom bracket shell width	68 mm	✓	✓	✓	✓	✓	✓
	73 mm	✓	✓	✓	✓	✓	✓
	83 mm	-	-	-	-	-	-
	-	-	-	-	-	-	-
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	Anodized
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	Aluminum	-	-	-	Steel
	Finish	Plated	Plated	-	-	-	Painted
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing bolt	Material	Aluminum	Aluminum	-	-	-	Aluminum
	Finish	Anodized	Anodized	-	-	-	Anodized
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		597	616	551 (38T) 543 (36T) 544 (34T) 531 (32T) 528 (30T)	569 (38T) 561 (36T) 562 (34T) 548 (32T) 545 (30T)	577 (34T) 563 (32T) 560 (30T)	650
Note		-	-	-	-	-	-

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Crankset

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX	SLX
Model no.		FC-M8120-B2	FC-M8100-1	FC-M8120-1	FC-M8130-1	FC-M7100-2	FC-M7120-B2
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12 (Front double)	12	12	12	12 (Front double)	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)		51.8	52	55	56.5	48.8	51.8
O.L.D. Thru (mm)		148	142, 148	148	157	142	148
O.L.D. QR/Nut (mm)		141	135, 141	141	-	135	141
P.C.D. (mm)		Direct	Direct	Direct	Direct	Direct	Direct
Spider/Gear arms		4	4	4	4	4	4
Chaining combination		36-26T	28T, 30T, 32T, 34T, 36T	28T, 30T, 32T, 34T, 36T	28T, 30T, 32T, 34T	36-26T	36-26T
Q-factor (mm)		178	172	178	181	172	178
Crank arm length (mm)	165.0	✓	✓	✓	✓	✓	✓
	167.5	-	-	-	-	-	-
	170.0	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175.0	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
Optional chain guard	180.0	✓	✓	✓	✓	-	-
	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-MT800	BB-MT800	BB-MT800	BB-MT800	BB-MT800	BB-MT800
	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 (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded bottom bracket shell width	68 mm	✓	✓	✓	✓	✓	✓
	73 mm	✓	✓	✓	✓	✓	✓
	83 mm	-	-	-	-	-	-
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), CFRP (body), Aluminum (arm)	Steel (teeth), CFRP (body), Aluminum (arm)	Steel (teeth), CFRP (body), Aluminum (arm)	Aluminum	Aluminum
	Finish	Anodized	Painted (teeth), Anodized (arm)	Painted (teeth), Anodized (arm)	Painted (teeth), Anodized (arm)	Painted	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 bolt	Material	Aluminum	-	-	-	Aluminum	Stainless steel
	Finish	Anodized	-	-	-	Anodized	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		662	651 (36T) 633 (34T) 620 (32T) 622 (30T) 608 (28T)	660 (36T) 642 (34T) 628 (32T) 630 (30T) 616 (28T)	668 (36T) 650 (34T) 636 (32T) 639 (30T) 624 (28T)	673	684
Note							

# Crankset

Series		SLX	SLX	SLX	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Model no.		FC-M7100-1	FC-M7120-1	FC-M7130-1	FC-M6100-1	FC-M6120-1	FC-M6130-1
Color	1	Series color					
	2	-	-	-	-	-	-
Rear speeds		12	12	12	12	12	12
Compatible chain		HG 12-speed					
Chain line (mm)		52	55	56.5	52	55	56.5
O.L.D. Thru (mm)		142, 148	148	157	142, 148	148	157
O.L.D. QR/Nut (mm)		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		30T, 32T, 34T	30T, 32T, 34T	30T, 32T, 34T	30T, 32T	30T, 32T	30T, 32T
Q-factor (mm)		172	178	181	172	178	181
Crank arm length (mm)	165.0	✓	✓	✓	-	-	-
	167.5	-	-	-	-	-	-
	170.0	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175.0	✓	✓	✓	✓	✓	✓
	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-MT800	BB-MT800	BB-MT800	SM-BB52	SM-BB52	SM-BB52
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded bottom bracket shell width	68 mm	✓	✓	✓	✓	✓	✓
	73 mm	✓	✓	✓	✓	✓	✓
	83 mm	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Steel (teeth), GFRP (body), Aluminum(arm)					
	Finish	Painted (teeth), Painted (arm)					
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner ring fixing bolt	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		646 (34T) 631 (32T) 634 (30T)	653 (34T) 638 (32T) 641 (30T)	662 (34T) 647 (32T) 650 (30T)	-	-	-
Note							

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Crankset

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	XTR	XTR
Model no.		FC-MT610-2	FC-MT610-B2	FC-MT510-1	FC-MT511-1	FC-M9000-1	FC-M9000-2
Color	1	Black	Black	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	HG-X11	HG-X11
Chain line (mm)		48.8	51.8	52	52	50.4	48.8
O.L.D. Thru (mm)		142	148	142, 148	142, 148	142	142
O.L.D. QR/Nut (mm)		135	141	135, 141	135, 141	135	135
P.C.D. (mm)		Direct	Direct	96	96	96	96/64
Spider/Gear arms		4	4	4	4	4 ***	4 ***
Chaining combination		36-26T	36-26T	30T, 32T, 34T	30T, 32T	36T, 34T, 32T, 30T (SM-CRM91)	38-28T 36-26T 34-24T
Q-factor (mm)		172.9	178.9	177	178.5	158	158
Crank arm length (mm)	165.0	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170.0	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175.0	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180.0	-	-	-	-	-	-
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-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB93	SM-BB93
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Axle length of BB-UN/E5 (mm)	Press-fit	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	SM-BB94-41A	SM-BB94-41A
	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
Threaded bottom bracket shell width	Threaded (chain case)	-	-	-	-	-	-
	68 mm	✓	✓	✓	✓	✓	✓
	73 mm	✓	✓	✓	✓	✓	✓
Chain case compatible	83 mm	-	-	-	-	-	-
	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	-	-	-
	Finish	Painted	Painted	Painted	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Steel (30T, 32T) Steel + GF composite (34T)	Steel	Aluminum	Titanium, Aluminum, CFRP
	Finish	Painted	Painted	Painted (30T, 32T) Plated (34T, teeth)	Painted	Anodized	Anodized
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Steel	Steel	-	-	-	Aluminum
	Finish	Painted	Painted	-	-	-	Plated
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Stainless steel	Stainless steel	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	-	-	-	Aluminum
	Finish	Painted	Painted	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		-	-	-	-	616 (36T) 600 (34T) 598 (32T) 586 (30T)	649 (38-28T) 631 (36-26T) 611 (34-24T)
Note						* 36T/34T is hollow, 32T/30T is not hollow ** 32T/30T is Stainless steel/Aluminum *** Spider arm angle is special	*** Spider arm angle is special

# Crankset

Series		XTR	XTR	XTR	XTR	XTR	SHIMANO DEORE XT
Model no.		FC-M9020-1	FC-M9020-B1	FC-M9020-2	FC-M9020-B2	FC-M9020-3	FC-M8000-B1
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		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11
Chain line (mm)		50.4	53.4	48.8	51.8	50	53.4
O.L.D. Thru (mm)		142	148	142	148	142	148
O.L.D. QR/Nut (mm)		135	141	135	141	135	141
P.C.D. (mm)		96	96	96/64	96/64	96/64	96
Spider/Gear arms		4 ***	4 ***	4 ***	4	4 ***	4
Chaining combination		36T, 34T, 32T, 30T (SM-CRM91)	32T, 30T	38-28T 36-26T 34-24T	36-26T 34-24T	40-30-22T	32T, 30T (SM-CRM81)
Q-factor (mm)		168	174	168	174	168	176
Crank arm length (mm)	165.0	✓	-	✓	-	✓	-
	167.5	-	-	-	-	-	-
	170.0	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175.0	✓	✓	✓	✓	✓	✓
	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)	SM-BB93	SM-BB93	SM-BB93	SM-BB93	SM-BB93	BB-MT800
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Axle length of BB-UN/ES (mm)	Press-fit	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	BB-MT800-PA
	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
Threaded bottom bracket shell width	Threaded (chain case)	-	-	-	-	-	-
	68 mm	✓	✓	✓	✓	✓	✓
	73 mm	✓	✓	✓	✓	✓	✓
Chain case compatible	83 mm	-	-	-	-	-	-
	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	-	-	-	Aluminum	-	Aluminum
	Finish	-	-	-	Anodized	-	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Titanium, Aluminum, CFRP	Ti + Aluminum	Aluminum, CFRP	Steel +CF composite
	Finish	Anodized	Anodized	Anodized	-	Anodized	Plated (teeth), Painted (body)
Middle ring	Material	-	-	-	-	Titanium/CFRP	-
	Finish	-	-	-	-	Shot Blasting	-
Inner ring	Material	-	-	Aluminum	Aluminum	Aluminum	-
	Finish	-	-	Plated	Plated	Plated	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	-	-	Anodized	-	Anodized
Inner ring fixing bolt	Material	-	-	Aluminum	Aluminum	Aluminum	-
	Finish	-	-	-	Anodized	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		620 (36T) 603 (34T) 586 (32T) 578 (30T)	601 (32T) 593 (30T)	667 (38-28T) 649 (36-26T) 629 (34-24T)	664 (36-26T) 645 (34-24T)	656	698.0 (36T)
Note		* 36T/34T is hollow, 32T/30T is not hollow ** 32T/30T is Stainless steel/ Aluminum *** Spider arm angle is special	- 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.	*** Spider arm angle is special.		*** Spider arm angle is special.	- Chain line 3 mm outboard, - It requires special dimension of frame which cassette position and front derailleur mount position are 3 mm outboard, - Only E type and D type front derailleur are compatible with the special frame.

# Crankset

Series		SHIMANO DEORE XT	SLX	SLX	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Model no.		FC-M8000-B2	FC-M7000-11-1	FC-M7000-11-2	FC-M5100-1	FC-M5100-2	FC-M5100-B2
Color	1	Series color	Series color	Series color	Series Color	Series Color	Series Color
	2	-	-	-	-	-	-
Rear speeds		11	11	11	11 / 10	11	11
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11 11-speed HG-X 10-speed	HG-X11 11-speed	HG-X11 11-speed
Chain line (mm)		51.8	50	48.8	52	48.8	51.8
O.L.D. Thru (mm)		148	142	142	142, 148	142	148
O.L.D. QR/Nut (mm)		141	135	135	135, 141	135	141
P.C.D. (mm)		96/64	96	96/64	96	96/64	96/64
Spider/Gear arms		4	4	4	4	4	4
Chaining combination		36-26T 34-24T	34T, 32T, 30T (SM-CRM70)	38-28T 36-26T 34-24T	30T, 32T	36-26T	36-26T
Q-factor (mm)		176	176	176	178.5	178.5	178.5
Crank arm length (mm)	165.0	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170.0	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175.0	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180.0	✓ (36-26T) - (34-24T)	-	-	-	-	-
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-MT800	BB-MT800	BB-MT800	SM-BB52	SM-BB52	SM-BB52
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/E5 (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded bottom bracket shell width	68 mm	✓	✓	✓	✓	✓	✓
	73 mm	✓	✓	✓	✓	✓	✓
	83 mm	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	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	Aluminum	-	-	-
	Finish	Painted	Painted	Painted	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum +CF composite	Steel +GF composite	Aluminum +GF composite	Steel	Steel	Steel
	Finish	Plated (teeth), Painted (body)	Plated (teeth)	Plated (teeth)	Painted	Painted	Painted
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	-	Steel	-	Steel	Steel
	Finish	Plated	-	Painted	-	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 bolt	Material	Stainless steel	-	Stainless steel	-	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		721.6 (36-26T)	721.1 (34T) 715.4 (32T) 699.3 (30T)	788.7 (28-28T) 761.4 (36-26T) 739.8 (34-24T)	-	-	-
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.	w/o chaining spec available for OTC, chaining is sold separately (SM-CRM70)				

# Crankset

Series		SHIMANO	SHIMANO	SAINT	SAINT	SHIMANO DEORE XT	ZEE
Model no.		FC-MT700-B2	FC-MT600-2	FC-M820	FC-M825	FC-M785	FC-M640
Color	1	Black	Black	Series color	Series color	Black	Series color
	2	-	-	-	-	Silver	-
Rear speeds		11	11	10	10	10	10
Compatible chain		HG-X11	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Chain line (mm)		51.8	48.8	50.4	57.9	48.8	50.4
O.L.D. Thru (mm)		148	142	142	150, 157	142	142
O.L.D. QR/Nut (mm)		141	135	135	-	135	135
P.C.D. (mm)		96/64	96/64	104	104	104/64	104
Spider/Gear arms		4	4	4	4	4	4
Chaining combination		36-26T 34-24T	36-26T	38T, 36T, 34T (SM-CR82)	38T, 36T, 34T (SM-CR82)	40-28T 38-26T 38-24T	38T, 36T, 34T (FC-M640/M645 chainring)
Q-factor (mm)		175	177	178	193	175	174.7
Crank arm length (mm)	165.0	-	-	✓	✓	✓	✓
	167.5	-	-	-	-	-	-
	170.0	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175.0	✓	✓	✓	✓	✓	✓
	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-MT800	BB-MT800	SM-BB80	SM-BB80	-	SM-BB52
	Threaded (E-type)	-	-	-	-	-	SM-BB52
	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	BB-MT800-PA	BB-MT800-PA	SM-BB71-41A	SM-BB71-41C	SM-BB71-41A	SM-BB71-41A
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
Threaded bottom bracket shell width	68 mm	✓	✓	✓	-	✓	✓
	73 mm	✓	✓	✓	-	✓	✓
	83 mm	-	-	-	✓	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	-
	Finish	Painted	Painted	Painted	Painted	Painted	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum +GF composite	Aluminum +GF composite	-	-	Aluminum	-
	Finish	Plated (teeth)	Anodized	-	-	Anodized	-
Middle ring	Material	-	-	Aluminum	Aluminum	-	Aluminum
	Finish	-	-	Anodized	Anodized	-	Anodized
Inner ring	Material	Aluminum	Steel	-	-	Aluminum	-
	Finish	Plated	Painted	-	-	Plated	-
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Aluminum	Aluminum	Aluminum	Stainless steel
	Finish	-	-	Anodized	Anodized	Anodized	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	-	-	Stainless steel	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		738.9 (36-26T) 712.4 (34-24T)	-	847 (38T) 837 (36T) 827 (34T)	858 (38T) 849 (36T) 838 (34T)	727.6 (40-28T) 717.6 (38-26T) 715.8 (38-24T)	828 (38T) 817 (36T) 807 (34T)
Note					For 83 mm bottom bracket shell width		

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Crankset

Series		ZEE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO	
Model no.		FC-M645	FC-M6000-2	FC-M4100-2	FC-M4100-B2	FC-M617-B2	FC-MT500-2	
Color	1	Series color	Series Black	Series Color	Series Color	Black	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	HG-X 10-speed	
Chain line (mm)		57.9	48.8	48.8	51.8	51.8	48.8	
O.L.D. Thru (mm)		150, 157	142	142	148	148	142	
O.L.D. QR/Nut (mm)		-	135	135	141	141	135	
P.C.D. (mm)		104	96/64	96/64	96/64	104/64	96/64	
Spider/Gear arms		4	4	4	4	4	4	
Chaining combination		38T, 36T, 34T (FC-M640/M645 chaining)	38-28T 36-26T 34-24T	36-26T	36-26T	36-22T	36-26T	
Q-factor (mm)		189.7	176	178.5	178.5	176	177	
Crank arm length (mm)	165.0	✓	-	-	-	-	-	
	167.5	-	-	-	-	-	-	
	170.0	✓	✓	✓	✓	✓	✓	
	172.5	-	-	-	-	-	-	
	175.0	✓	✓	✓	✓	✓	✓	
	177.5	-	-	-	-	-	-	
Optional chain guard	180.0	-	-	-	-	-	-	
	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-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52	SM-BB52	
	Threaded (E-type)	SM-BB52	-	-	-	SM-BB52	-	
	Threaded (chain case)	-	-	-	-	-	-	
	Press-fit	SM-BB71-41C	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	
Axle length of BB-UN/E5 (mm)	Threaded (normal)	-	-	-	-	-	-	
	Threaded (E-type)	-	-	-	-	-	-	
	Threaded (chain case)	-	-	-	-	-	-	
Threaded bottom bracket shell width	68 mm	-	✓	✓	✓	✓	✓	
	73 mm	-	✓	✓	✓	✓	✓	
	83 mm	✓	-	-	-	-	-	
Chain case compatible		-	-	-	-	-	-	
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	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	
	Finish	-	Painted	-	-	Painted	Painted	
Spider arm cover	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer ring	Material	-	Aluminum +GF composite	Steel	Steel	Aluminum	Aluminum +GF composite	
	Finish	-	Anodized	Painted	Painted	Anodized	Anodized	
Middle ring	Material	Aluminum	-	-	-	-	-	
	Finish	Anodized	-	-	-	-	-	
Inner ring	Material	-	Steel	Steel	Steel	Steel	Steel	
	Finish	-	Painted	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 bolt	Material	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Stainless chain guard fixing bolt		-	-	-	-	-	-	
Crank fixing bolt included		✓	✓	✓	✓	✓	✓	
Average weight (g) (175 mm, w/o bottom bracket)		858 (38T) 847 (36T) 837 (34T)	-	-	-	-	-	
Note		For 83 mm bottom bracket shell width						

# Crankset

Series		SHIMANO	SHIMANO	SHIMANO ALTUS	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-MT500-3	FC-M627-B	FC-M2000	FC-MT210-3	FC-MT210-2	FC-MT210-B2
Color	1	Black	Black	Series color	Black	Black	Black
	2	-	-	-	-	-	-
Rear speeds		10	10	9	9	9	9
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Chain line (mm)		50	51.8	50	50	48.8	51.8
O.L.D. Thru (mm)		142	148	142	142	142	148
O.L.D. QR/Nut (mm)		135	141	135	135	135	141
P.C.D. (mm)		96/64	104/64	Riveted	Riveted	Riveted	Riveted
Spider/Gear arms		4	4	4	4	4	4
Chaining combination		40-30-22T	36-22T	40-30-22T	44-32-22T 40-30-22T	46-30T 36-22T	36-22T
Q-factor (mm)		177	176	179.6	176	176	176
Crank arm length (mm)	165.0	-	-	✓	-	-	-
	167.5	-	-	-	-	-	-
	170.0	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175.0	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
	180.0	-	-	-	-	-	-
Optional chain guard	With bash guard	-	-	-	-	-	-
	With chain guard	✓	-	✓	✓	✓ (46-30T) - (36-22T)	-
	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-BB52	SM-BB52	BB-UN101	BB-MT500	BB-MT500	BB-MT500
	Threaded (E-type)	SM-BB52	SM-BB52	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	BB-MT500-PA	BB-MT500-PA	-	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	LL123	-	-	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Threaded (normal)	-	-	-	-	-	-
Threaded bottom bracket shell width	68 mm	✓	✓	✓	✓	✓	✓
	73 mm	✓	✓	✓	✓	✓	✓
	83 mm	-	-	-	-	-	-
Chain case compatible		-	-	-	-	-	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	-	Steel	Steel	Steel
	Finish	Plated	Plated	-	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	-	-	-	-
	Finish	Painted	Painted	-	-	-	-
Spider arm cover	Material	-	-	-	Resin	Resin	Resin
	Finish	-	-	-	Resin	Resin	Resin
Outer ring	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Middle ring	Material	Steel	-	Steel	Steel	-	-
	Finish	Plated	-	Painted	Painted	-	-
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel*	Stainless steel	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	Stainless steel	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	✓	-	-
Crank fixing bolt 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	-	Chain line 3 mm outboard

- SL
- SLMT
- SMSL
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

# Crankset

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-MT200	FC-MT101-2	FC-MT101-B2	FC-MT101	FC-M371	FC-M315-2
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
Rear speeds		9	9	9	9	9	8/7
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG for 9-speed	HG 8/7-speed
Chain line (mm)		50	48.8	51.8	50	50	48.8
O.L.D. Thru (mm)		142	142	148	142	142	142
O.L.D. QR/Nut (mm)		135	135	141	135	135	135
P.C.D. (mm)		Riveted	Riveted	Riveted	Riveted	Riveted	Riveted
Spider/Gear arms		4	4	4	4	4	4
Chaining combination		40-30-22T	36-22T	36-22T	44-32-22T 40-30-22T	44-32-22T 48-36-26T	36-22T
Q-factor (mm)		176	179.4	179.4	179.2	180.5	179.4
Crank arm length (mm)	165.0	-	-	-	-	-	-
	167.5	-	-	-	-	-	-
	170.0	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175.0	✓	✓	✓	✓	✓	✓
	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-MT500	BB-UN101	BB-UN101	BB-UN101	BB-UN300	BB-UN101
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	BB-UN300-K	-
	Press-fit	BB-MT500-PA	-	-	-	-	-
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	LL123	LL123	LL123	LL123	LL123
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	LL123-K	-
Threaded bottom bracket shell width	68 mm	✓	✓	✓	✓	✓	✓
	73 mm	✓	✓	✓	✓	✓	✓
	83 mm	-	-	-	-	-	-
Chain case compatible		-	-	-	-	✓	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	-	-	-	-	-
	Finish	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 bolt	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓ (Option)	✓	✓
Average weight (g) (175 mm, w/o bottom bracket)		-	-	-	-	-	-
Note		SHIMANO logo	SHIMANO logo	SHIMANO logo Chain line 3 mm outboard	SHIMANO logo	SHIMANO logo	SHIMANO logo

# Crankset

Series		SHIMANO	SHIMANO TOURNEY TX	SHIMANO	SHIMANO	SHIMANO	SHIMANO DXR
Model no.		FC-M315-B2	FC-TX801	FC-TY501-2	FC-TY501	FC-TY301	FC-MX71
Color	1	Black	Black	Black	Black	Black	Series color
	2	-	Silver	-	Silver	-	-
Rear speeds		8/7	8/7/6	8/7	8/7/6	8/7/6	1
Compatible chain		HG 8/7-speed	HG for 8/7-speed	HG 8/7-speed	HG/UG for 8/7/6-speed	HG/UG for 8/7/6-speed	Single speed
Chain line (mm)		51.8	50	48.8	47.5/47.5 + t/50	47.5/47.5 + t/50	44
O.L.D. Thru (mm)		148	142	142	142	142	142
O.L.D. QR/Nut (mm)		141	135	135	135	135	135
P.C.D. (mm)		Riveted	Riveted	Riveted	Riveted	Riveted	104/64
Spider/Gear arms		4	4	4	4	4	4
Chainring combination		36-22T	48-38-28T 42-32-22T	46-30T	48-38-28T 42-34-24T	48-38-28T 42-34-24T	34T, 38T, 41T, 42T, 43T, 44T, 46T
Q-factor (mm)		179.4	187.9	185.5	185.5	181.5	173
Crank arm length (mm)	165.0	-	✓	-	✓	-	✓
	167.5	-	-	-	-	-	-
	170.0	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175.0	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
Optional chain guard	180.0	-	-	-	-	-	✓
	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-UN101, BB-UN300	BB-UN101, 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/E5 (mm)	Threaded (normal)	LL123	LL123	LL123	D-NL, *D-EL	D-NL, *D-EL	-
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	LL123-K	-	D-NL K	D-NL K	-
Threaded bottom bracket shell width	68 mm	✓	✓	✓	✓	✓	✓
	73 mm	✓	✓	✓	✓	✓	✓
	83 mm	-	-	-	-	-	-
Chain case compatible		-	✓	-	✓	✓	-
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Anodized
Crank axle	Material	-	-	-	-	-	Steel
	Finish	-	-	-	-	-	Plated
Spider arm	Material	-	-	-	-	-	Aluminum
	Finish	-	-	-	-	-	Anodized
Spider arm cover	Material	Resin	Resin	Resin	Resin	Resin	-
	Finish	Resin	Resin	Resin	Resin - (black) Painted (silver)	-	-
Outer ring	Material	Steel	Steel	Steel	Steel	Steel	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Anodized
Middle ring	Material	-	Steel	-	Steel	Steel	-
	Finish	-	Painted	-	Painted	Painted	-
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	-
	Finish	Painted	Painted	Painted	Painted	Painted	-
Outer/middle ring fixing bolt	Material	-	-	-	-	-	Aluminum
	Finish	-	-	-	-	-	Anodized
Inner ring fixing bolt	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓ (Option)	-	✓
Average weight (g) (175 mm, w/o bottom bracket)		-	-	-	-	-	765 (w/o chainring)
Note		SHIMANO logo, Chain line 3 mm outboard	-	-	* 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	BMX racing 68 mm bottom bracket shell width

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# 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	CN-M9100	CN-M9100	CN-M9100	9/10-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	38T, 36T, 34T
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
Chain stay angle	63 - 75 degree	63 - 75 degree	63 - 75 degree	-
Back plate	Resin	Resin	Aluminum	Aluminum
Chainguide	Resin	Resin	Resin	Aluminum
Average weight (g)	28	25	33	-
Note				

ARCHIVE

# Chainring

Series		XTR	SHIMANO DEORE XT	SLX	SHIMANO DEORE XT	SLX	SHIMANO
Model no.		SM-CRM95	SM-CRM85	SM-CRM75	SM-CRM81	SM-CRM70	SM-CR82
Color	1	Standard	Standard	Standard	Standard	Standard	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

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# 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		

ARCHIVE

# Bottom Bracket (HOLLOWTECH II)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-BB93	SM-BB94-41	SM-BB80	SM-BB71-41	BB-MT800	BB-MT800-P
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	-	✓ (SM-BB94-41A)	-	✓ (SM-BB71-41A)	-	✓ (BB-MT800-PA)
	92	-	✓ (SM-BB94-41A)	-	✓ (SM-BB71-41A)	-	✓ (BB-MT800-PA)
	104.5	-	-	-	✓ (SM-BB71-41C)	-	-
	107	-	-	-	✓ (SM-BB71-41C)	-	✓ (BB-MT800-PC)
Small ball bearing		✓	✓	-	-	-	-
Adapter	Material	Aluminum	Resin	Aluminum	Resin	Aluminum	Resin
	Finish	Anodized	-	Anodized	-	Anodized	-
Spacer	Material	Aluminum	Resin	Resin	Resin	Aluminum	Resin
	Finish	Anodized	-	-	-	-	-
Average weight (g)		73	58	95 (68/73 mm) 96 (83 mm)	71 (89.5/92 mm) 73 (104.5/107 mm)	82	68.2
Note				Gold color for SAINT			

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		BB-MT500	BB-MT500-P	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	-	✓ (BB-MT500-PA)	-
	92	-	✓ (BB-MT500-PA)	-
	104.5	-	-	-
	107	-	-	-
Small ball bearing		-	-	-
Adapter	Material	Aluminum	Resin	Aluminum
	Finish	Anodized	-	Painted
Spacer	Material	Resin	Resin	Resin
	Finish	-	-	-
Average weight (g)		-	-	-
Note				

- SL
- SLMT
- SMSL
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

# 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)	✓	✓	-	✓	-
		70 (M36)	✓	-	-	-	-
		73 (BC1.37)	✓	-	-	✓	-
	D-H	68 (BC1.37)	-	-	-	-	-
		70 (M36)	-	-	-	-	-
	YL117	68 (BC1.37)	-	-	-	-	-
	117.5	68 (BC1.37)	-	-	-	-	-
	118	68 (BC1.37)	✓	✓	-	✓	-
		70 (M36)	✓	-	-	-	-
		73 (BC1.37)	✓	-	-	✓	-
	XL118	68 (BC1.37)	-	-	-	-	-
		70 (M36)	-	-	-	-	-
		73 mm	-	-	-	-	-
	121	68 (BC1.37)	✓	✓	✓	✓	-
		70 (M36)	-	-	-	✓	-
		73 (BC1.37)	✓	✓	-	-	-
	126	68 (BC1.37)	✓	✓	✓*	✓	-
		70 (M36)	-	-	-	-	-
		73 (BC1.37)	✓	✓	-	-	-
	D-NL 122	68 (BC1.37)	-	-	-	-	-
		70 (M36)	-	-	-	-	-
73 (BC1.37)		-	-	-	-	-	
D-EL 127	68 (BC1.37)	-	-	-	-	-	
	70 (M36)	-	-	-	-	-	
	73 (BC1.37)	-	-	-	-	-	
LL123	68 (BC1.37)	-	-	-	-	-	
	70 (M36)	-	-	-	-	-	
	73 (BC1.37)	-	-	-	-	-	
123SP	68 (BC1.37)	-	-	-	-	-	
130	68 (BC1.37)	-	-	-	-	-	
Spindle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Bonderlube	Bonderlube	Bonderlube	Painted (Black)	Painted (Black)	Painted (Black)
Left hand adapter	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Right hand adapter/shell	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Phosphate coated	Phosphate coated	Phosphate coated	Nickel Chrome	Nickel Chrome	Nickel Chrome
Note				* w/ 0.7 mm spacer			

# Bottom Bracket

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

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Cassette Sprocket

Series		XTR	XTR	SHIMANO DEORE XT
Model no.		CS-M9100-12	CS-M9101-12	CS-M8100-12
Type		HYPERGLIDE+	HYPERGLIDE+	HYPERGLIDE+
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	Combination 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
	Combination 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
	Combination 3	-	-	-
	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
MICRO SPLINE		✓	✓	✓
HG spline (ROAD 11-speed)		-	-	-
HG spline (MTB 7-speed)		-	-	-
HG spline (Others)		-	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	1	1	1
	Finish	Anodized	Anodized	Painted
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	5	5	-
	Finish	Shot	Shot	-
Aluminum gear	QTY (pcs)	3	3	2
	Finish	Painted	Painted	Anodized
Steel gear	QTY (pcs)	4	4	10
	Finish	Plated	Plated	Plated
Lock ring	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Average weight (g)		357 (10-45T) 367 (10-51T)	357 (10-45T) 367 (10-51T)	461 (10-45T) 470 (10-51T)
Note		-	-	-

Series		SLX	SHIMANO DEORE	XTR
Model no.		CS-M7100-12	CS-M6100-12	CS-M9001
Type		HYPERGLIDE+	HYPERGLIDE+	HG
Speeds		12	12	11
Compatible chain		HG 12-speed	HG 12-speed	HG-X11
Combination name (Group name)		10-45T 10-51T	10-51T	11-40T (bs)
Combination	Combination 1	10-12-14-16-18-21-24-28-32-36-40-45T	10-12-14-16-18-21-24-28-33-39-45-51T	11-13-15-17-19*-21*-24*-27*-31*-35*-40**T (bs)
	Combination 2	10-12-14-16-18-21-24-28-33-39-45-51T	-	-
	Combination 3	-	-	-
	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
MICRO SPLINE		✓	✓	-
HG spline (ROAD 11-speed)		-	-	✓
HG spline (MTB 7-speed)		-	-	-
HG spline (Others)		-	-	✓
Carbon spider arm	QTY (pcs)	-	-	2
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	1	1	2
	Finish	Painted	Painted	Anodized
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	1
	Finish	-	-	Shot
Aluminum gear	QTY (pcs)	1	-	6
	Finish	Anodized	-	-
Steel gear	QTY (pcs)	11	12	4
	Finish	Plated	Plated	Shot-Ni
Lock ring	Material	Aluminum	Steel	Aluminum
	Finish	Anodized	Plated	Anodized
Average weight (g)		513 (10-45T) 534 (10-51T)	-	330
Note		-	-	* Titanium gear ** Aluminum gear

# Cassette Sprocket

Series		SHIMANO DEORE XT	SLX	SHIMANO DEORE
Model no.		CS-M8000	CS-M7000-11	CS-M5100-11
Type		HG	HG	HG
Speeds		11	11	11
Compatible chain		HG-X11	HG-X11	HG-X11 11-speed
Combination name (Group name)		11-40T (bs) 11-42T (bt) 11-46T (bu)	11-40T (bs) 11-42T (bt) 11-46T (bu)	11-42T 11-51T
Combination	Combination 1	11-13-15-17-19-21-24-27-31-35-40**T (bs)	11-13-15-17-19-21-24-27-31-35-40**T (bs)	11-13-15-17-19-21-24-28-32-37-42T
	Combination 2	11-13-15-17-19-21-24-28-32-37-42**T (bt)	11-13-15-17-19-21-24-28-32-37-42**T (bt)	11-13-15-18-21-24-28-33-39-45-51T
	Combination 3	11-13-15-17-19-21-24-28-32-37**-46**T (bu)	11-13-15-17-19-21-24-28-32-37**-46**T (bu)	-
	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
MICRO SPLINE		-	-	-
HG spline (ROAD 11-speed)		✓	✓	✓
HG spline (MTB 7-speed)		-	-	-
HG spline (Others)		✓	✓	✓
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	2	1	1
	Finish	Anodized	Anodized	Painted
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	2	1 (11-40T) 1 (11-42T) 2 (11-46T)	-
	Finish	-	-	-
Steel gear	QTY (pcs)	9	10 (11-40T) 10 (11-42T) 9 (11-46T)	11
	Finish	Shot-Ni	Shot-Ni	Plated
Lock ring	Material	Aluminum	Steel	Steel
	Finish	Anodized	Plated	Plated
Average weight (g)		411 (11-40T) 434 (11-42T) 437 (11-46T)	450 (11-40T) 476 (11-42T) 482 (11-46T)	-
Note		** Aluminum gear	** Aluminum gear	

Series		SHIMANO DEORE XT	SHIMANO DEORE	SHIMANO
Model no.		CS-M771-10	CS-M4100-10	CS-HG50-10
Type		HG	HG	HG
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	Combination 1	11-12-14-16-18-20-22-25-28-32T (bL)	11-13-15-18-21-24-28-32-37-42T	11-13-15-17-19-21-24-28-32-36T (bK)
	Combination 2	11-13-15-17-19-21-23-26-30-34T (bJ)	11-13-15-18-21-24-28-32-37-46T	-
	Combination 3	11-13-15-17-19-21-24-28-32-36T (bK)	-	-
	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
MICRO SPLINE		-	-	-
HG spline (ROAD 11-speed)		✓	✓	✓
HG spline (MTB 7-speed)		-	-	-
HG spline (Others)		✓	✓	✓
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	2	-	-
	Finish	Anodized	-	-
Steel spider arm	QTY (pcs)	-	1	1
	Finish	-	Plated	Ni plated
Titanium gear	QTY (pcs)	-	-	-
	Finish	Shot	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	10	10	10
	Finish	Shot-Cr	Plated	Ni plated
Lock ring	Material	Aluminum	Steel	Steel
	Finish	Anodized	Plated	Cr plated
Average weight (g)		294 (11-32T) 323 (11-34T) 343 (11-36T)	-	-
Note				

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Cassette Sprocket

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG400-9	CS-HG201-9	CS-HG200-9
Type		HG	HG	HG
Speeds		9	9	9
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed
Combination name (Group name)		11-28T (bg) 11-32T (ar) 11-34T (au) 12-36T (bh) 11-36T (cb)	11-32T (bo) 11-34T (bn) 11-36T (bw)	11-32T (bo) 11-34T (bn) 11-36T (bw)
Combination	Combination 1	11-12-13-14-16-18-21-24-28T (bg)	11-13-15-17-19-21-24-28-32T (bo)	11-13-15-17-19-21-24-28-32T (bo)
	Combination 2	11-12-14-16-18-21-24-28-32T (ar)	11-13-15-17-20-23-26-30-34T (bn)	11-13-15-17-20-23-26-30-34T (bn)
	Combination 3	11-13-15-17-20-23-26-30-34T (au)	11-13-15-17-20-23-26-30-36T (bw)	11-13-15-17-20-23-26-30-34T (bn)
	Combination 4	12-14-16-18-21-24-28-32-36T (bh)	-	-
	Combination 5	11-13-15-17-20-23-26-30-36T (cb)	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
MICRO SPLINE		-	-	-
HG spline (ROAD 11-speed)		✓	✓	✓
HG spline (MTB 7-speed)		-	-	-
HG spline (Others)		✓	✓	✓
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	9	9	9
	Finish	Ni-Ni plated	Ni-Ni plated (Top gear: Phosphate coated)	Phosphate coated
Lock ring	Material	Steel	Steel	Steel
	Finish	Ni-Ni plated	Phosphate coated	Phosphate coated
Average weight (g)		-	-	-
Note				

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG51-8	CS-HG41-8	CS-HG31-8
Type		HG	HG	HG
Speeds		8	8	8
Compatible chain		IG/HG	IG/HG	IG/HG
Combination name (Group name)		11-28T (bf) 11-30T (an) 11-32T (aw)	11-30T (an) 11-32T (aw) 11-34T (ao)	11-30T (an) 11-32T (aw) 11-34T (ao)
Combination	Combination 1	11-13-15-17-19-21-24-28T (bf)	11-13-15-17-20-23-26-30T (an)	11-13-15-17-20-23-26-30T (an)
	Combination 2	11-13-15-17-20-23-26-30T (an)	11-13-15-18-21-24-28-32T (aw)	11-13-15-18-21-24-28-32T (aw)
	Combination 3	11-13-15-18-21-24-28-32T (aw)	11-13-15-17-20-23-26-34T (ao)	11-13-15-17-20-23-26-34T (ao)
	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
MICRO SPLINE		-	-	-
HG spline (ROAD 11-speed)		✓	✓	✓
HG spline (MTB 7-speed)		-	-	-
HG spline (Others)		✓	✓	✓
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	8	8	8
	Finish	Chrome plated	Ni plated	Phosphate coated
Lock ring	Material	Steel	Steel	Steel
	Finish	Chrome plated	Phosphate coated	Phosphate coated
Average weight (g)		-	-	-
Note				

# Cassette Sprocket

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG200-8	CS-HG41-7	CS-HG200-7
Type		HG	HG	HG
Speeds		8	7	7
Compatible chain		HG 8-speed	IG/HG	IG/HG
Combination name (Group name)		12-32T (br)	11-28T (ac)	12-28T (bm) 12-32T (bp)
Combination	Combination 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 (bm)
	Combination 2	-	-	12-14-16-18-21-26-32T (bp)
	Combination 3	-	-	-
	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
MICRO SPLINE		-	-	-
HG spline (ROAD 11-speed)		✓	-	-
HG spline (MTB 7-speed)		-	✓	✓
HG spline (Others)		✓	-	-
Carbon spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel spider arm	QTY (pcs)	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	8	8	7
	Finish	Phosphate coated	Ni plated	Phosphate coated
Lock ring	Material	Steel	Steel	Steel
	Finish	Painted	Phosphate coated	Painted
Average weight (g)		-	-	-
Note		-	-	-

Series		SHIMANO DXR
Model no.		CS-MX66
Type		Single sprocket for FH-MX70
Speeds		1
Compatible chain		1/2 inch x 3/32 inch
Combination name (Group name)		-
Combination	Combination 1	-
	Combination 2	-
	Combination 3	-
	Combination 4	-
	Combination 5	-
	Combination 6	-
	Combination 7	-
MICRO SPLINE		-
HG spline (ROAD 11-speed)		-
HG spline (MTB 7-speed)		-
HG spline (Others)		-
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)	1
	Finish	Shot-Cr/Shot-Ni
Lock ring	Material	Steel
	Finish	Chrome plated
Average weight (g)		-
Note		For BMX racing

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Multiple Freewheel

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		MF-TZ500-7	MF-TZ510-7	MF-TZ500-6
Type		HG/UG	HG/UG	HG/UG
Speeds		7	7	6
Compatible chain		HG/UG	HG/UG	HG/UG
Combination name (Group name)		14-28T 14-34T	14-28T 14-34T	14-28T
Combination	Combination 1	14-16-18-20-22-24-28T	14-16-18-20-22-24-28T	14-16-18-21-24-28T
	Combination 2	14-16-18-20-22-24-34T	14-16-18-20-22-24-34T	-
	Combination 3	-	-	-
	Combination 4	-	-	-
	Combination 5	-	-	-
Spider arm	QTY (pcs)	-	-	-
Spoke protector	w/ Spoke protector	✓	✓	✓
	w/o Spoke protector	✓	✓	✓
Aluminum lock ring		-	-	-
Finish		Brown & Black	Zn Plating & Black Coated	Brown & Black
Note				

Series		SHIMANO
Model no.		MF-TZ510-6
Type		HG/UG
Speeds		6
Compatible chain		HG/UG
Combination name (Group name)		14-28T
Combination	Combination 1	14-16-18-21-24-28T
	Combination 2	-
	Combination 3	-
	Combination 4	-
	Combination 5	-
Spider arm	QTY (pcs)	-
Spoke protector	w/ Spoke protector	✓
	w/o Spoke protector	✓
Aluminum lock ring		-
Finish		Zn Plating & Black Coated
Note		

# Front Hub (Disc Brake)

Series		XTR	XTR	XTR	SAINT	SHIMANO DEORE XT	SHIMANO 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 (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.	-	-

- SL
- SLMT
- SMSL
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

# Front Hub (Disc Brake)

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX
Model no.		HB-M8110-B5	HB-M8000	HB-M8010	HB-M8010-B	HB-M756	HB-M7110
Color	1 Hub Shell	Series color	Series color	Series color	Series color	Black	Series color
	1 Quick release	-	Series color	-	-	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	6-bolt disc brake	CENTER LOCK disc brake
O.L.D. (mm)		110	100	100	110	100	100
Spoke hole	28H	✓	-	-	-	-	✓
	32H	-	✓	✓	✓	✓	✓
	36H	-	-	✓	-	✓	-
External serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	✓	✓	✓	✓	-	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		15 mm E-THRU	Quick release	15 mm E-THRU	15 mm E-THRU	Quick release	15 mm E-THRU
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	-	✓	-	-	✓	-
Thru Axle (Length x Inner diameter ; mm)	100 x 15	-	-	✓	-	-	✓
	110 x 15	✓	-	-	✓	-	-
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		62.8	60.2	60.2	70.2	59.4	60.2
Offset (mm)		3.7	6	5.4	5.4	5.5	5.7
P.C.D. Left/Right (mm)		45/45	44/41	44/44	44/44	61	44/44
Flange diameter (mm)		51	52.8/51.4	52.8	52.8	70.6	52.8
Seal		-	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Internal grease sleeve		✓	✓	✓	✓	-	✓
Bearing	Stainless ball	✓	-	-	-	-	✓
	Cup	Polish	-	-	-	-	Polish
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
	Cartridge	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	-	Anodized
Quick release lever	Material	-	Aluminum	-	-	Aluminum	-
	Finish	-	Anodized	-	-	Anodized	-
Quick release housing	Material	-	Aluminum	-	-	Aluminum	-
	Finish	-	Anodized	-	-	Anodized	-
Quick release nut	Material	-	Resin & Steel	-	-	Resin & Steel	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	Aluminum	Aluminum	-	-
	Finish	-	-	Anodized	Anodized	-	-
Average weight (g)		158	167	148	158	239	142
Note	<p>For straight spoke</p> <p>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.</p> <p>Contact the nearest SHIMANO sales office for more information</p>		-	Axle is supplied with front fork.	-	Spoke hole 24H spec. available.	-

# Front Hub (Disc Brake)

Series		SLX	ZEE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO	SHIMANO
Model no.		HB-M7110-B	HB-M640	HB-M6000	HB-M6010	HB-MT410	HB-MT410-B
Color	1 Hub Shell	Series color	Series color	Series Black	Series Black	Black	Black
	1 Quick release	-	-	Series Black	-	-	-
	2 Hub Shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		110	110	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		15 mm E-THRU	20 mm Thru	Quick release	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)		70.2	61.55	60.2	60.2	60.2	70.2
Offset (mm)		5.7	5.6	5.6	5.3	5.3	5.3
P.C.D. Left/Right (mm)		44/44	52	44	44	44/44	44/44
Flange diameter (mm)		52.8	61.6	52.8	52.8	52.8	52.8
Seal		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Internal grease sleeve		✓	✓	-	✓	-	-
Bearing	Stainless ball	✓	-	-	-	-	-
	Cup	Polish	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	-	-
	Cartridge	-	-	-	-	✓	✓
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Axle	Material	Aluminum	Aluminum	Steel	Aluminum	-	-
	Finish	Anodized	Anodized	-	Anodized	-	-
Quick release lever	Material	-	-	Aluminum	-	-	-
	Finish	-	-	Anodized	-	-	-
Quick release housing	Material	-	-	Aluminum	-	-	-
	Finish	-	-	Anodized	-	-	-
Quick release nut	Material	-	-	Resin & Steel	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	Aluminum	-	Steel	-	-
	Finish	-	Anodized	-	-	-	-
Average weight (g)		147	228	185	160	167	171
Note			Axle is supplied with front fork.		-		

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Front Hub (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		HB-M525A	HB-M475	HB-M4050	HB-M3050	HB-MT400	HB-MT400-B
Color	1 Hub Shell	Black	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	Black	-	-
	2 Hub Shell	Silver	Silver	Silver	-	-	-
	2 Quick release	Silver	Silver	Silver	-	-	-
Brake type		6-bolt disc brake	6-bolt 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	Quick release	15 mm E-THRU	15 mm E-THRU
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	✓	✓	✓	✓	-	-
Thru Axle (Length x Inner diameter ; mm)	100 x 15	-	-	-	-	✓	-
	110 x 15	-	-	-	-	-	✓
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		59.2	59.2	60.2	60.2	60.2	70.2
Offset (mm)		5.7	5.5	5.6	5.5	5.3	5.3
P.C.D. Left/Right (mm)		61/61	61/61	44/44	44/44	44/44	44/44
Flange diameter (mm)		70.6	70.6	52.8	52.8	52.8	52.8
Seal		Labyrinth & Contact	Contact	Labyrinth & Contact	Contact	Labyrinth & Contact	Labyrinth & Contact
Internal grease sleeve		-	-	-	-	✓	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	-	-	-	-	-
	Cartridge	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Aluminum	Aluminum
	Finish	-	-	-	-	-	-
Quick release lever	Material	Aluminum	Steel	Aluminum	Steel	-	-
	Finish	Anodized	Plated	Painted	Plated	-	-
Quick release housing	Material	Aluminum	Steel	Steel	Steel	-	-
	Finish	Anodized	Plated	Plated	Plated	-	-
Quick release nut	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	Steel	Steel
	Finish	-	-	-	-	-	-
Average weight (g)		245	230	185	182	160	169
Note		-	-	-	-	-	-

# Front Hub (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		HB-MT200	HB-RM35	HB-TX505	HB-TX506
Color	1 Hub Shell	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	Black
	2 Hub Shell	-	-	-	-
	2 Quick release	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt disc 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		Quick release	Quick release	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)		60.2	60.2	60.2	58.1
Offset (mm)		5.3	5.5	5.3	5.3
P.C.D. Left/Right (mm)		44/44	44/44	44/44	61/61
Flange diameter (mm)		52.8 (32H/36H) 53.8 (28H)	52.8	52.8 (32H/36H) 53.8 (28H)	70.6
Seal		Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	-	-	-	-
	Cone	-	-	-	-
	Cartridge	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
Quick release lever	Material	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated
Quick release housing	Material	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated
Quick release nut	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-
	Finish	-	-	-	-
Average weight (g)		182 (32H/36H) 184 (28H)	182	182 (32H/36H) 184 (28H)	239
Note		-	-	-	-

- SL
- SLMT
- SMSL
- BL
- BL
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

# Front Hub (Rim Brake)

Series		SHIMANO	SHIMANO
Model no.		HB-TX500-QR	HB-TX500-NT
Color	1 Hub Shell	Black	Black
	1 Quick release	Black	Black
	2 Hub Shell	Silver	Silver
	2 Quick release	Black	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	Nut
Quick release skewer length	129 mm	✓	-
	133 mm	✓	-
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)		46	46
Seal		-	-
Internal grease sleeve		-	-
Bearing	Stainless ball	-	-
	Cup	-	-
	Cone	-	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Painted (Black), Clear	Painted (Black), Clear
Axle	Material	Steel	Steel
	Finish	-	-
Quick release lever	Material	Steel	-
	Finish	Plated	-
Quick release housing	Material	Steel	-
	Finish	Plated	-
Quick release nut	Material	Resin & Steel	-
	Finish	-	-
Disc brake rotor lock ring	Material	-	-
	Finish	-	-
Average weight (g)		-	-
Note			

# FREEHUB (Disc Brake)

Series		XTR	XTR	XTR	XTR	SAINT	SAINT	
Model no.		FH-M9111	FH-M9111-B	FH-M9111-B5	FH-M9000	FH-M820	FH-M825	
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	
Speeds		12	12	12	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	
O.L.D. (mm)		142	148	148	135	135	150	
Spoke hole	28H	✓	✓	✓	-	-	-	
	32H	✓	✓	-	✓	✓	✓	
	36H	-	-	-	-	✓	✓	
10 tooth cog compatible		✓	✓	✓	-	-	-	
External serration disc brake rotor lock ring	with	-	-	-	✓	✓	✓	
	without	✓	✓	✓	-	-	-	
Internal serration disc brake rotor lock ring	with	-	-	-	-	-	-	
	without	✓	✓	✓	✓	✓	✓	
CENTER LOCK mount cover option		-	-	-	-	✓	✓	
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release	Thru	Thru	
Quick release skewer length	Steel QR	166 mm	-	-	-	-	-	
		170 mm	-	-	-	-	-	
		172 mm	-	-	-	-	-	
	Alloy QR	176 mm	-	-	-	-	-	-
		168 mm	-	-	-	✓	-	-
		173 mm	-	-	-	✓	-	-
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)		55.89	63.06	56.0	57.4	57.4	72.4	
Offset (mm)		7.05	7.02	6.8	6.6	6.4	6.6	
P.C.D. Left/Right (mm)		50/61	47.25/61	45/61	44/45	44/45	44/45	
Flange diameter Left/Right (mm)		59/70	56.25/70	51/68.4	52.8/53.8	52.8/53.8	52.8/53.8	
MICRO SPLINE		✓	✓	✓	-	-	-	
HG spline (ROAD 11-speed)		-	-	-	-	-	-	
HG spline (MTB 7-speed)		-	-	-	-	-	-	
HG spline (Others)		-	-	-	✓	✓	✓	
Ratchet system type		Face ratchet type	Face ratchet type	Face ratchet type	Pawl type	Pawl type	Pawl type	
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	Grinded CBN	Grinded CBN	Grinded CBN	Grinding CBN	Grinding CBN	Grinding CBN	
	Cone	-	-	-	-	-	-	
	Cartridge	-	-	-	-	-	-	
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Titanium	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	Steel	Steel	
	Finish	Anodized	Anodized	Anodized	Anodized	-	-	
Quick release lever	Material	-	-	-	Aluminum	-	-	
	Finish	-	-	-	Anodized	-	-	
Quick release housing	Material	-	-	-	Aluminum	-	-	
	Finish	-	-	-	Anodized	-	-	
Quick release nut	Material	-	-	-	Resin & Steel	-	-	
	Finish	-	-	-	-	-	-	
Disc brake rotor lock ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Average weight (g) (w/o Axle, quick release nor lock ring)		237	238	241	271	347 (ø10) 333 (ø12)	348	
Note				* For straight spoke, Lacing pattern limited to 3-cross, non-offset rim  For details, refer to Products Technical Information				

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# FREEHUB (Disc Brake)

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	
Model no.		FH-M8110	FH-M8110-B	FH-M8110-BS	FH-M8130-B	FH-M8000	FH-M8010	
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	
Speeds		12	12	12	12	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	
O.L.D. (mm)		142	148	148	157	135	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	12 mm E-THRU	Quick release	12 mm E-THRU	
Quick release skewer length	Steel QR	166 mm	-	-	-	-	-	
		170 mm	-	-	-	-	-	
		172 mm	-	-	-	-	-	
	Alloy QR	176 mm	-	-	-	-	-	-
		168 mm	-	-	-	-	✓	-
		173 mm	-	-	-	-	✓	-
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)		55.17	62.16	55.95	72.69	57.4	57.4	
Offset (mm)		6.72	6.6	6.78	6.43	6.9	6.4	
P.C.D. Left/Right (mm)		61/61	60/61	45/61	58/61	44/45	44/45	
Flange diameter Left/Right (mm)		69.8/69.8	68.8/69.8	51/68.4	66.8/69.8	52.8/53.8	52.8/53.8	
MICRO SPLINE		✓	✓	✓	✓	-	-	
HG spline (ROAD 11-speed)		-	-	-	-	-	-	
HG spline (MTB 7-speed)		-	-	-	-	-	-	
HG spline (Others)		-	-	-	-	✓	✓	
Ratchet system type		Face ratchet type	Face ratchet type	Face ratchet type	Ratchet type	Pawl type	Pawl type	
Quick engagement		✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (more than 36 times/ 360 deg.)	✓ (more than 36 times/ 360 deg.)	
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact	
Internal grease sleeve		-	-	-	-	✓	✓	
Bearing	Stainless ball	-	-	-	-	-	-	
	Cup	Polish	Polish	Polish	Polish	-	-	
	Cone	CBN & Polish	CBN & Polish	CBN & Polish	CBN & Polish	CBN	CBN	
	Cartridge	-	-	-	-	-	-	
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel	
	Finish	Anodized	Anodized	Anodized	Anodized	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
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	-	-	-	-	Resin & Steel	-	
	Finish	-	-	-	-	-	-	
Disc brake rotor lock ring	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Average weight (g) (w/o Axle, quick release nor lock ring)		305	307	306	310	331	359	
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.</p> <p>Contact the nearest SHIMANO sales office for more information.</p>						

# FREEHUB (Disc Brake)

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SLX	SLX	SLX	ZEE	
Model no.		FH-M8010-B	FH-M756	FH-M7110	FH-M7110-B	FH-M7130-B	FH-M640	
Color	1 Hub Shell	Series color	Black	Series color	Series color	Series color	Series color	
	1 Quick release	-	Black	-	-	-	-	
	2 Hub Shell	-	Silver	-	-	-	-	
	2 Quick release	-	Black	-	-	-	-	
Brake type		CENTER LOCK disc brake	6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	
Speeds		8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	12	12	12	8-10 speed, MTB 11-speed	
O.L.D. (mm)		148	135	142	148	157	135	
Spoke hole	28H	-	-	✓	✓	✓	-	
	32H	✓	✓	✓	✓	✓	✓	
	36H	-	✓	✓	✓	-	✓	
10 tooth cog compatible		-	-	✓	✓	✓	-	
External serration disc brake rotor lock ring	with	-	-	-	-	-	-	
	without	✓	-	✓	✓	✓	✓	
Internal serration disc brake rotor lock ring	with	-	-	-	-	-	-	
	without	✓	-	✓	✓	✓	✓	
CENTER LOCK mount cover option		-	-	-	-	-	-	
Axle fixing method		12 mm E-THRU	Quick release	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Thru	
Quick release skewer length	Steel QR	166 mm	-	-	-	-	-	
		170 mm	-	-	-	-	-	
		172 mm	-	-	-	-	-	
	Alloy QR	176 mm	-	-	-	-	-	-
		168 mm	-	✓	-	-	-	-
		173 mm	-	✓	-	-	-	-
		174 mm	-	-	-	-	-	-
Thru Axle (Length x Inner diameter ; mm)	135 x 10	-	-	-	-	-	✓	
	135 x 12	-	-	-	-	-	✓	
	142 x 12	-	-	✓	-	-	-	
	148 x 12	✓	-	-	✓	-	-	
	150 x 12	-	-	-	-	-	-	
157 x 12	-	-	-	-	✓	-		
Flange distance (mm)		63.4	57.1	55.17	62.16	72.69	57.4	
Offset (mm)		6.4	6.8	6.72	6.6	6.43	6.4	
P.C.D. Left/Right (mm)		44/45	61	61/61	60/61	58/61	44/45	
Flange diameter Left/Right (mm)		52.8/53.8	70.6	69.8/69.8	68.8/69.8	66.8/69.8	52.8/ 53.8	
MICRO SPLINE		-	-	✓	✓	✓	-	
HG spline (ROAD 11-speed)		-	-	-	-	-	-	
HG spline (MTB 7-speed)		-	-	-	-	-	-	
HG spline (Others)		✓	✓	-	-	-	✓	
Ratchet system type		Pawl type	Pawl type	Face ratchet type	Face ratchet type	Face ratchet type	Pawl type	
Quick engagement		✓ (more than 36 times/ 360 deg.)	-	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (more than 36 times/360 deg.)	
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact	
Internal grease sleeve		✓	✓	-	-	-	✓	
Bearing	Stainless ball	-	-	-	-	-	-	
	Cup	-	-	Polish	Polish	Polish	-	
	Cone	CBN	CBN	CBN & Polish	CBN & Polish	CBN & Polish	CBN	
	Cartridge	-	-	-	-	-	-	
FREEHUB body	Material	Steel	Steel	Aluminum	Aluminum	Aluminum	Steel	
	Finish	-	-	Anodized	Anodized	Anodized	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Aluminum	Steel	Steel	Steel	Steel	Steel	
	Finish	Anodized	-	-	-	-	-	
Quick release lever	Material	-	Aluminum	-	-	-	-	
	Finish	-	Anodized	-	-	-	-	
Quick release housing	Material	-	Aluminum	-	-	-	-	
	Finish	-	Anodized	-	-	-	-	
Quick release nut	Material	-	Resin & Steel	-	-	-	-	
	Finish	-	-	-	-	-	-	
Disc brake rotor lock ring	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Average weight (g) (w/o Axle, quick release nor lock ring)		367	426	350	354	359	375 (ø10) 350 (ø12)	
Note			Spoke hole 24H spec available					

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# FREEHUB (Disc Brake)

Series		ZEE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO	SHIMANO	SHIMANO	
Model no.		FH-M645	FH-M6000	FH-M6010	FH-MT410	FH-MT410-B	FH-MT401	
Color	1 Hub Shell	Series color	Series Black	Series Black	Black	Black	Black	
	1 Quick release	-	Series Black	-	-	-	Black	
	2 Hub Shell	-	-	-	-	-	-	
	2 Quick release	-	-	-	-	-	-	
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	
Speeds		8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	12	12	12	
O.L.D. (mm)		150	135	142	142	148	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		Thru	Quick release	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release	
Quick release skewer length	Steel QR	166 mm	-	-	-	-	-	
		170 mm	-	-	-	-	-	
		172 mm	-	-	-	-	-	
	Alloy QR	176 mm	-	-	-	-	-	-
		168 mm	-	✓	-	-	-	✓
		173 mm	-	✓	-	-	-	✓
174 mm		-	-	-	-	-	-	
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)		72.4	57.4	57.4	55.17	61.6	55.17	
Offset (mm)		6.4	6.6	6.4	6.72	6.6	6.72	
P.C.D. Left/Right (mm)		44/45	45	44/45	61/61	60/61	61/61	
Flange diameter Left/Right (mm)		52.8/ 53.8	53.8	52.8/ 53.8	69.8/69.8	68.8/69.8	69.8/69.8	
MICRO SPLINE		-	-	-	✓	✓	✓	
HG spline (ROAD 11-speed)		-	-	-	-	-	-	
HG spline (MTB 7-speed)		-	-	-	-	-	-	
HG spline (Others)		✓	✓	✓	-	-	-	
Ratchet system type		Pawl type	Pawl type	Pawl type	Pawl type	Pawl type	Pawl type	
Quick engagement		✓ (more than 36 times/360 deg.)	-	✓ (more than 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	CBN	CBN	-	-	-	
	Cartridge	-	-	-	✓	✓	✓	
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Painted	Painted	Painted	
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	-	-	-	-	-	-	
Quick release lever	Material	-	Aluminum	-	-	-	Aluminum	
	Finish	-	Painted	-	-	-	Painted	
Quick release housing	Material	-	Aluminum	-	-	-	Steel	
	Finish	-	Painted	-	-	-	Painted	
Quick release nut	Material	-	Resin & Steel	-	-	-	Resin & Steel	
	Finish	-	-	-	-	-	-	
Disc brake rotor lock ring	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Average weight (g) (w/o Axle, quick release nor lock ring)		363	372	357	488	478	478	
Note			* for Trekking					

# FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-MT401-B	FH-M525A	FH-M475	FH-M4050	FH-M3050	FH-MT500
Color	1 Hub Shell	Black	Black	Black	Black	Black	Black
	1 Quick release	Black	Black	Black	Black	Black	Black
	2 Hub Shell	-	Silver	Silver	Silver	-	-
	2 Quick release	-	Black	Black	Black	-	-
Brake type		CENTER LOCK disc brake	6-bolt disc brake	6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds		12	8-10 speed, MTB 11-speed	12			
O.L.D. (mm)		141	135	135	135	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		Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
Quick release skewer length	Steel QR	166 mm	-	-	✓	✓	-
		170 mm	-	-	✓	✓	-
		172 mm	-	-	-	-	-
		176 mm	-	-	-	-	-
	Alloy QR	168 mm	-	✓	✓	✓	✓
		173 mm	-	✓	✓	✓	✓
		174 mm	✓	-	-	-	-
		178 mm	✓	-	-	-	-
Thru Axle (Length x Inner diameter ; mm)	135 x 10	-	-	-	-	-	-
	135 x 12	-	-	-	-	-	-
	142 x 12	-	-	-	-	-	-
	148 x 12	-	-	-	-	-	-
	150 x 12	-	-	-	-	-	-
	157 x 12	-	-	-	-	-	-
Flange distance (mm)		61.6	57.1	57.1	57.4	57.4	55.17
Offset (mm)		6.6	6.8	6.8	6.6	6.6	6.72
P.C.D. Left/Right (mm)		60/61	61/61	61/61	45/45	45/45	61/61
Flange diameter Left/Right (mm)		68.8/69.8	70.6	70.6	53.8	53.8	69.8/69.8
MICRO SPLINE		✓	-	-	-	-	✓
HG spline (ROAD 11-speed)		-	-	-	-	-	-
HG spline (MTB 7-speed)		-	-	-	-	-	-
HG spline (Others)		-	✓	✓	✓	✓	-
Ratchet system type		Pawl type	Pawl type	Pawl type	Pawl type	Pawl type	Pawl type
Quick engagement		✓ (36 times/360 deg.)	-	-	-	-	✓
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact	Labyrinth & Contact
	FREEHUB body	Contact	Contact	-	Contact	-	Contact
Internal grease sleeve		-	-	-	✓	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	-	CBN	-	CBN	-	CBN
	Cartridge	✓	-	-	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Anodized	Anodized	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	Aluminum	Aluminum	Steel	Aluminum	Steel	Aluminum
	Finish	Painted	Anodized	Plated	Painted	Plated	Painted
Quick release housing	Material	Steel	Aluminum	Steel	Steel	Steel	Steel
	Finish	Painted	Anodized	Plated	Plated	Plated	Painted
Quick release nut	Material	Resin & Steel	Resin & Steel	Steel + Resin	Steel + Resin	Steel + Resin	Resin & Steel
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g) (w/o Axle, quick release nor lock ring)		488	435	445	385	386	515
Note							

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-MT500-B	FH-MT510	FH-MT510-B	FH-MT400	FH-MT400-B	FH-MT200-B
Color	1 Hub Shell	Black	Black	Black	Black	Black	Black
	1 Quick release	Black	-	-	-	-	-
	2 Hub Shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake			
Speeds		12	12	12	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed
O.L.D. (mm)		141	142	148	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	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release
Quick release skewer length	Steel QR	166 mm	-	-	-	-	-
		170 mm	-	-	-	-	-
		172 mm	-	-	-	-	✓
		176 mm	-	-	-	-	✓
	Alloy QR	168 mm	-	-	-	-	-
		173 mm	-	-	-	-	-
		174 mm	✓	-	-	-	-
		178 mm	✓	-	-	-	-
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	55.17	62.16	57.4	63.4	63.4
Offset (mm)		6.6	6.72	6.6	6.65	6.65	6.65
P.C.D. Left/Right (mm)		60/61	61/61	60/61	44/45	44/45	45/45
Flange diameter Left/Right (mm)		68.8/69.8	69.8/69.8	68.8/69.8	52.8/53.8	52.8/53.8	53.8
MICRO SPLINE		✓	✓	✓	-	-	-
HG spline (ROAD 11-speed)		-	-	-	-	-	-
HG spline (MTB 7-speed)		-	-	-	-	-	-
HG spline (Others)		-	-	-	✓	✓	✓
Ratchet system type		Pawl type	Pawl type	Pawl type	Pawl type	Pawl type	Pawl type
Quick engagement		✓	✓	✓	✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 deg.)	-
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	-
Internal grease sleeve		-	-	-	✓	✓	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN	-
	Cartridge	-	-	-	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	Aluminum	-	-	-	-	Steel
	Finish	Painted	-	-	-	-	Plated
Quick release housing	Material	Steel	-	-	-	-	Steel
	Finish	Painted	-	-	-	-	Painted
Quick release nut	Material	Resin & Steel	-	-	-	-	Steel + Resin
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g) (w/o Axle, quick release nor lock ring)		518	437	440	357	369	402.5
Note		-	-	-	-	-	-

# FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-RM35	FH-TX505-8	FH-TX506	FH-TY505-7
Color	1 Hub Shell	Black	Black	Black	Black
	1 Quick release	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
Speeds		8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	8-10	7
O.L.D. (mm)		135	135	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		Quick release	Quick release	Quick release	Quick release
Quick release skewer length	Steel QR	166 mm	✓	✓	✓
		170 mm	✓	✓	✓
		172 mm	-	-	-
		176 mm	-	-	-
	Alloy QR	168 mm	-	-	-
		173 mm	-	-	-
		174 mm	-	-	-
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	56	59.5
Offset (mm)		6.6	6.6	6.1	5.6
P.C.D. Left/Right (mm)		45/45	45/45	61/61	45/45
Flange diameter Left/Right (mm)		53.8	53.8	70.6	53.8
MICRO SPLINE		-	-	-	-
HG spline (ROAD 11-speed)		-	-	-	-
HG spline (MTB 7-speed)		-	-	-	✓
HG spline (Others)		✓	✓	✓	-
Ratchet system type		Pawl type	Pawl type	Pawl type	Pawl type
Quick engagement		-	-	-	-
Seal	Hub	Contact	Contact	Contact	-
	FREEHUB body	-	-	-	-
Internal grease sleeve		-	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	-	-	-	-
	Cone	-	-	-	-
	Cartridge	-	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
Quick release lever	Material	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated
Quick release housing	Material	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated
Quick release nut	Material	Steel + Resin	Steel + Resin	Steel + Resin	Steel + Resin
	Finish	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-
	Finish	-	-	-	-
Average weight (g) (w/o Axle, quick release nor lock ring)		386	403.5	457.5	-
Note		* 166 mm Quick release spec.			

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# FREEHUB (Rim Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-TX500-8-QR	FH-TX500-8-NT	FH-TY500-7-QR	FH-TY500-7-NT
Color	1 Hub Shell	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
Speeds		8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed	7	7
O.L.D. (mm)		135	135	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	Nut	Quick release	Nut
Quick release skewer length	166 mm	✓	-	✓	-
	168 mm	-	-	-	-
	170 mm	✓	-	✓	-
	173 mm	-	-	-	-
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	57.4	57.4	57.4
Offset (mm)		6.8	6.8	4.6	4.6
P.C.D. Left/Right (mm)		45	45	45	45
Flange diameter Left/Right (mm)		53.8	53.8	53.8	53.8
Quick engagement		-	-	-	-
Seal	Hub	-	-	-	-
	FREEHUB body	-	-	-	-
Internal grease sleeve		-	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	-	-	-	-
	Cone	-	-	-	-
FREEHUB body	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted (Black), Clear	Painted (Black), Clear	Painted (Black)	Painted (Black)
Axle	Material	Steel	Steel	Steel	Steel
	Finish	-	-	-	-
Quick release lever	Material	Steel	-	Steel	-
	Finish	Plated	-	Plated	-
Quick release housing	Material	Steel	-	Steel	-
	Finish	Plated	-	Painted	-
Quick release nut	Material	Steel + Resin	-	Steel + Resin	-
	Finish	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-
	Finish	-	-	-	-
Average weight (g) (w/o axle, quick release nor locking)		-	-	-	-
Note				O.L.D. 130 mm available (refer to ROAD FREEHUB specification table)	O.L.D. 130 mm available (refer to ROAD FREEHUB specification table)

# Wheel (Disc Brake)

Series	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO 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
Spec.	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	Series color	Series color
	1 Quick release	-	-	-	-	-
	2 Hub Shell	-	-	-	-	-
	2 Quick release	-	-	-	-	-
Front/Rear	Front	Front	Rear	Rear	Front	Front
Brake type	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Speeds	-	-	12	12	-	-
O.L.D. (mm)	110	110	148	148	110	110
Wheel Size	622 x 24C (29 inch)	584 x 24C (650B = 27.5 inch)	622 x 24C (29 inch)	584 x 24C (650B = 27.5 inch)	622 x 30C (29 inch)	584 x 30C (650B = 27.5 inch)
External serration disc brake rotor lock ring	with	-	-	-	-	-
	without	✓	✓	-	-	✓
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
Rim	Height (mm)	18.8	18.8	18.8	18.8	19.8
	Width (mm)	27.9	27.9	27.9	27.9	34.7
	Rim joint	Welding	Welding	Welding	Welding	Welding
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	✓	✓	✓	✓	✓
	Requires rim tape	✓ (24 - 622)	✓ (24 - 584)	✓ (24 - 622)	✓ (24 - 584)	✓ (30 - 584)
Spokes	Number	28	28	28	28	28
	Straight pull	✓	✓	✓	✓	-
	J-bend	-	-	-	-	✓
	Butted	2 - 1.5	2 - 1.5	2 - 1.5	2 - 1.5	2.0 - 1.8
	Bladed	-	-	-	-	-
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	133 mm	-	-	-	-	-
	168 mm	-	-	-	-	-
	173 mm	-	-	-	-	-
Thru Axle (Length x Inner diameter ; mm)	100 x 15	-	-	-	-	-
	110 x 15	✓	✓	-	-	✓
	142 x 12	-	-	-	-	-
	148 x 12	-	-	✓	✓	-
MICRO SPLINE	-	-	✓	✓	-	-
HG spline (ROAD 11-speed)	-	-	-	-	-	-
HG spline (MTB 7-speed)	-	-	-	-	-	-
HG spline (Others)	-	-	-	-	-	-
Ratchet system type	-	-	Face ratchet type	Face ratchet type	-	-
Quick engagement	-	-	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	-	-
Bearing	Stainless ball	✓	✓	-	✓	✓
	Cup	-	-	-	-	-
	Cone	CBN	CBN	CBN & Polish	CBN & Polish	CBN
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
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	-	-	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
- ST
- ST
- RD
- FD
- BR
- BR
- BR
- FC
- SMCD
- SMCR
- BB
- BB
- CS
- MF
- HB
- HB
- FH
- FH
- WH
- CI-DECK

# Wheel (Disc Brake)

Series	SHIMANO DEORE XT	SHIMANO 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	
Spec.	R12-B-29	R12-B-275	F15-B-29	F15-B-275	R12-B-29	R12-B-275	
Color	1 Hub Shell	Series color	Black	Black	Black	Black	
	1 Quick release	-	-	-	-	-	
	2 Hub Shell	-	-	-	-	-	
	2 Quick release	-	-	-	-	-	
Front/Rear	Rear	Rear	Front	Front	Rear	Rear	
Brake type	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	
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 (650B = 27.5 inch)	622 x 30C (29 inch)	584 x 30C (650B = 27.5 inch)	622 x 30C (29 inch)	584 x 30C (650B = 27.5 inch)	
External serration disc brake rotor lock ring	with	-	-	-	-	-	
	without	-	-	✓	✓	✓	
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	
	Width (mm)	34.7	34.7	34.7	34.7	34.7	
	Rim joint	Welding	Welding	Welding	Welding	Welding	Welding
	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	✓	✓	✓	✓	✓	
	Butted	2.0 - 1.8	2.0 - 1.8	-	-	-	-
	Bladed	-	-	-	-	-	-
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	133 mm	-	-	-	-	-	
	168 mm	-	-	-	-	-	
	173 mm	-	-	-	-	-	
Thru Axle (Length x Inner diameter ; mm)	100 x 15	-	-	-	-	-	
	110 x 15	-	-	✓	✓	-	
	142 x 12	-	-	-	-	-	
	148 x 12	✓	✓	-	-	✓	✓
MICRO SPLINE	✓	✓	-	-	✓	✓	
HG spline (ROAD 11-speed)	-	-	-	-	-	-	
HG spline (MTB 7-speed)	-	-	-	-	-	-	
HG spline (Others)	-	-	-	-	-	-	
Ratchet system type	Face ratchet type	Face ratchet type	-	-	Pawl type	Pawl type	
Quick engagement	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	-	-	-	-	
Bearing	Stainless ball	-	-	-	-	-	
	Cup	-	-	-	-	-	
	Cone	CBN & Polish	CBN & Polish	CBN	CBN	CBN	CBN
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	
	FREEHUB body	Contact	Contact	-	-	Contact	Contact
Internal grease sleeve	-	-	-	-	-	-	
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	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	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Axle	Material	Aluminum	Aluminum	Steel	Steel	Steel	
	Finish	Anodized	Anodized	-	-	-	-
Quick release lever	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Quick release housing	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Quick release nut	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Disc brake rotor lock ring	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	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
Spec.		F15-29	R12-29	F15-275	R12-275	F15-B-29	R12-B-29
Color	1 Hub Shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	-	-
	2 Hub Shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Front/Rear		Front	Rear	Front	Rear	Front	Rear
Brake type		CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
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 (650B=27.5 inch)	584 x 25C (650B=27.5 inch)	622 x 25C (29 inch)	622 x 25C (29 inch)
External serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	-	-	-	-	-	-
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	29 x 2.00 - 2.40	29 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	29 x 2.00 - 2.40	29 x 2.00 - 2.40
Rim	Height (mm)	20.8	20.8	20.8	20.8	20.8	20.8
	Width (mm)	29.7	29.7	29.7	29.7	29.7	29.7
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓ (25 - 622)	✓ (25 - 622)	✓ (25 - 584)	✓ (25 - 584)	✓ (25 - 622)	✓ (25 - 622)
Spokes	Number	24	24	24	24	24	24
	Straight pull	-	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓	✓
	Butted	2	2	2	2	2	2
Bladed	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
Axle fixing method		15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU
Quick release skewer length	133 mm	-	-	-	-	-	-
	168 mm	-	-	-	-	-	-
	173 mm	-	-	-	-	-	-
Thru Axle (Length x Inner diameter ; mm)	100 x 15	✓	-	✓	-	-	-
	110 x 15	-	-	-	-	✓	-
	142 x 12	-	✓	-	✓	-	-
	148 x 12	-	-	-	-	-	✓
MICRO SPLINE		-	✓	-	✓	-	✓
HG spline (ROAD 11-speed)		-	-	-	-	-	-
HG spline (MTB 7-speed)		-	-	-	-	-	-
HG spline (Others)		-	-	-	-	-	-
Ratchet system type		-	Pawl type	-	Pawl type	-	Pawl type
Quick engagement		-	✓ (36 times/ 360 deg.)	-	✓ (36 times/ 360 deg.)	-	✓ (36 times/ 360 deg.)
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	-	Contact	-	Contact	-	Contact
Internal grease sleeve		-	-	-	-	-	-
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
FREEHUB body	Material	-	Steel	-	Steel	-	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)		931	1238	884	1189	935	1248
Note							

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# 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-MT600-TL-F15-29	WH-MT600-TL-F15-275	WH-MT600-TL-R12-29	WH-MT600-TL-R12-275	
Model name	WH-MT601-TL	WH-MT601-TL	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL	
Spec.	F15-B-275	R12-B-275	F15-29	F15-275	R12-29	R12-275	
Color	1 Hub Shell	Black	Black	Black	Black	Black	
	1 Quick release	-	-	-	-	-	
	2 Hub Shell	-	-	-	-	-	
	2 Quick release	-	-	-	-	-	
Front/Rear	Front	Rear	Front	Front	Rear	Rear	
Brake type	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	
Speeds	-	12	-	-	8-10 speed, MTB 11-speed***	8-10 speed, MTB 11-speed***	
O.L.D. (mm)	110	148	100	100	142	142	
Wheel Size	584 x 25C (650B=27.5 inch)	584 x 25C (650B=27.5 inch)	622 x 24C (29 inch)	584 x 24C (650B = 27.5 inch)	622 x 24C (29 inch)	584 x 24C (650B = 27.5 inch)	
External serration disc brake rotor lock ring	with	-	-	-	-	-	
	without	-	-	-	-	-	
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Tubeless	
	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	29 x 2.00 - 2.40	27.5 x 2.00 - 2.40
Rim	Height (mm)	20.8	20.8	21	21	21	
	Width (mm)	29.7	29.7	28.8	28.8	28.8	
	Rim joint	Sleeve	Sleeve	Welding	Welding	Welding	Welding
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓ (25 - 584)	✓ (25 - 584)	✓ (24 - 622)	✓ (24 - 584)	✓ (24 - 622)	✓ (24 - 584)
Spokes	Number	24	24	24	24	24	
	Straight pull	-	-	✓	✓	✓	✓
	J-bend	✓	✓	-	-	-	-
	Butted	2	2	2	2	2	2
	Bladed	-	-	-	-	-	-
Axle fixing method	15 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	133 mm	-	-	-	-	-	
	168 mm	-	-	-	-	-	
	173 mm	-	-	-	-	-	
Thru Axle (Length x Inner diameter ; mm)	100 x 15	-	-	✓	✓	-	
	110 x 15	✓	-	-	-	-	
	142 x 12	-	-	-	-	✓	
	148 x 12	-	✓	-	-	-	
MICRO SPLINE	-	✓	-	-	-	-	
HG spline (ROAD 11-speed)	-	-	-	-	-	-	
HG spline (MTB 7-speed)	-	-	-	-	-	-	
HG spline (Others)	-	-	-	-	✓	✓	
Ratchet system type	-	Pawl type	-	-	Pawl type	Pawl type	
Quick engagement	-	✓ (36 times/ 360 deg.)	-	-	-	-	
Bearing	Stainless ball	-	-	-	-	-	
	Cup	-	-	-	-	-	
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
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	Anodized
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	Anodized	Anodized	Black	Black	Black	Black
FREEHUB body	Material	-	Steel	-	-	Steel	
	Finish	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Aluminum	Aluminum	Steel	
	Finish	-	-	Anodized	Anodized	-	
Quick release lever	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Quick release housing	Color	-	-	-	-	-	
	Material	-	-	-	-	-	
Quick release nut	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Disc brake rotor lock ring	Material	-	-	Steel	Steel	-	
	Finish	-	-	Painted	Painted	-	
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	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	964	923	1156	1115	
Note	-	-	-	-	-	-	

# Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-MT600-TL-F15-B-29	WH-MT600-TL-F15-B-275	WH-MT600-TL-R12-B-29	WH-MT600-TL-R12-B-275	WH-MT501-CL-R12-B-29	WH-MT501-CL-R12-B-275
Model name	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL	WH-MT501-CL	WH-MT501-CL
Spec.	F15-B-29	F15-B-275	R12-B-29	R12-B-275	R12-B-29	R12-B-275
Color	1 Hub Shell	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	-
	2 Hub Shell	-	-	-	-	-
	2 Quick release	-	-	-	-	-
Front/Rear	Front	Front	Rear	Rear	Rear	Rear
Brake type	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Speeds	-	-	8-10 speed, MTB 11-speed***	8-10 speed, MTB 11-speed***	12	12
O.L.D. (mm)	110	110	148	148	148	148
Wheel Size	622 x 24C (29 inch)	584 x 24C (650B = 27.5 inch)	622 x 24C (29 inch)	584 x 24C (650B = 27.5 inch)	622 x 24C (29 inch)	584x24C (650B=27.5 inch)
External serration disc brake rotor lock ring	with	✓	✓	-	-	-
	without	-	-	-	-	-
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Clincher
	Recommended size	29 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	29 x 2.00 - 2.40
Rim	Height (mm)	21	21	21	21	21
	Width (mm)	28.8	28.8	28.8	28.8	29.6
	Rim joint	Welding	Welding	Welding	Welding	Sleeve
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
	Requires rim tape	✓ (24 - 622)	✓ (24 - 584)	✓ (24 - 622)	✓ (24 - 584)	✓ (24 - 622)
Spokes	Number	24	24	24	24	24
	Straight pull	✓	✓	✓	✓	-
	J-bend	-	-	-	-	✓
	Butted	2	2	2	2	2.3
	Bladed	-	-	-	-	-
Axle fixing method	15 mm E-THRU	15 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
Quick release skewer length	133 mm	-	-	-	-	-
	168 mm	-	-	-	-	-
	173 mm	-	-	-	-	-
Thru Axle (Length x Inner diameter ; mm)	100 x 15	-	-	-	-	-
	110 x 15	✓	✓	-	-	-
	142 x 12	-	-	-	-	-
	148 x 12	-	-	✓	✓	✓
MICRO SPLINE	-	-	-	-	✓	✓
HG spline (ROAD 11-speed)	-	-	-	-	-	-
HG spline (MTB 7-speed)	-	-	-	-	-	-
HG spline (Others)	-	-	✓	✓	-	-
Ratchet system type	-	-	Pawl type	Pawl type	Pawl type	Pawl type
Quick engagement	-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN
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	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	Aluminum	Aluminum	Aluminum	Aluminum	Brass
	Finish	Black	Black	Black	Black	Black
FREEHUB body	Material	-	-	Steel	Steel	Steel
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted
Axle	Material	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Anodized	-	-	-
Quick release lever	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Disc brake rotor lock ring	Material	Steel	Steel	-	-	-
	Finish	Painted	Painted	-	-	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	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)	970	930	1170	1130	1260	1208
Note	-	-	-	-	-	-

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

# Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-MT500-CL-F-275	WH-MT500-CL-R-275	WH-MT500-CL-F15-275	WH-MT500-CL-R12-275	WH-MT500-CL-F15-B-275	WH-MT500-CL-R12-B-275
Model name	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL
Spec.	F-275	R-275	F15-275	R12-275	F15-B-275	R12-B-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	Front	Rear	Front	Rear
Brake type	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Speeds	-	8-10 speed, MTB 11-speed***	-	8-10 speed, MTB 11-speed***	-	8-10 speed, MTB 11-speed***
O.L.D. (mm)	100	135	100	142	110	148
Wheel Size	584 x 24C (650B = 27.5 inch)	584 x 24C (650B = 27.5 inch)	584 x 24C (650B = 27.5 inch)	584 x 24C (650B = 27.5 inch)	584 x 24C (650B = 27.5 inch)	584 x 24C (650B = 27.5 inch)
External serration disc brake rotor lock ring	with	-	-	✓	-	✓
	without	-	-	-	-	-
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	27.5 x 2.00 - 2.40
Rim	Height (mm)	21	21	21	21	21
	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 - 584)
Spokes	Number	24	24	24	24	24
	Straight pull	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓
	Butted	2.3	2.3	2.3	2.3	2.3
	Bladed	-	-	-	-	-
Axle fixing method	Quick release	Quick release	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU
Quick release skewer length	133 mm	✓	-	-	-	-
	168 mm	-	✓	-	-	-
	173 mm	-	✓	-	-	-
Thru Axle (Length x Inner diameter ; mm)	100 x 15	-	-	✓	-	-
	110 x 15	-	-	-	✓	-
	142 x 12	-	-	-	✓	-
	148 x 12	-	-	-	-	✓
MICRO SPLINE	-	-	-	-	-	-
HG spline (ROAD 11-speed)	-	-	-	-	-	-
HG spline (MTB 7-speed)	-	-	-	-	-	-
HG spline (Others)	-	✓	-	✓	-	✓
Ratchet system type	-	Pawl type	-	Pawl type	-	Pawl type
Quick engagement	-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN
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	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	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Axle	Material	Steel	Steel	Aluminum	Steel	Aluminum
	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	Resin & Steel	Resin & Steel	-	-	-
	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)	962	1147	936	1133	946	1145
Note	-	*** Spoke protector is available only for 9 & 10-speed	-	*** Spoke protector is available only for 9 & 10-speed	-	*** Spoke protector is available only for 9 & 10-speed

# Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-MT500-CL-F-29	WH-MT500-CL-R-29	WH-MT500-CL-F15-29	WH-MT500-CL-R12-29	WH-MT500-CL-F15-B-29	WH-MT500-CL-R12-B-29
Model name	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL
Spec.	F-29	R-29	F15-29	R12-29	F15-B-29	R12-B-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	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Speeds	-	8-10 speed, MTB 11-speed***	-	8-10 speed, MTB 11-speed***	-	8-10 speed, MTB 11-speed***
O.L.D. (mm)	100	135	100	142	110	148
Wheel Size	622 x 24C (29 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)
External serration disc brake rotor lock ring	with	-	-	✓	-	✓
	without	-	-	-	-	-
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	29 x 2.00 - 2.35
Rim	Height (mm)	21	21	21	21	21
	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 - 622)	✓ (24 - 622)	✓ (24 - 622)	✓ (24 - 622)	✓ (24 - 622)
Spokes	Number	24	24	24	24	24
	Straight pull	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓
	Butted	2.3	2.3	2.3	2.3	2.3
	Bladed	-	-	-	-	-
Axle fixing method	Quick release	Quick release	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU
Quick release skewer length	133 mm	✓	-	-	-	-
	168 mm	-	✓	-	-	-
	173 mm	-	✓	-	-	-
Thru Axle (Length x Inner diameter ; mm)	100 x 15	-	-	✓	-	-
	110 x 15	-	-	-	✓	-
	142 x 12	-	-	-	✓	-
	148 x 12	-	-	-	-	✓
MICRO SPLINE	-	-	-	-	-	-
HG spline (ROAD 11-speed)	-	-	-	-	-	-
HG spline (MTB 7-speed)	-	-	-	-	-	-
HG spline (Others)	-	✓	-	✓	-	✓
Ratchet system type	-	Pawl type	-	Pawl type	-	Pawl type
Quick engagement	-	-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN
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	Steel	Steel	Aluminum	Steel	Aluminum
	Finish	-	-	Anodized	-	Anodized
Quick release lever	Material	Aluminum	Aluminum	-	-	-
	Finish	Painted	Painted	-	-	-
	Color	Black	Black	-	-	-
Quick release housing	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	-	-	-
Quick release nut	Material	Resin & Steel	Resin & Steel	-	-	-
	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)	1013	1200	988	1186	998	1199
Note	-	-	-	-	-	-

SL

SLMT

SMSL

BL

BL

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

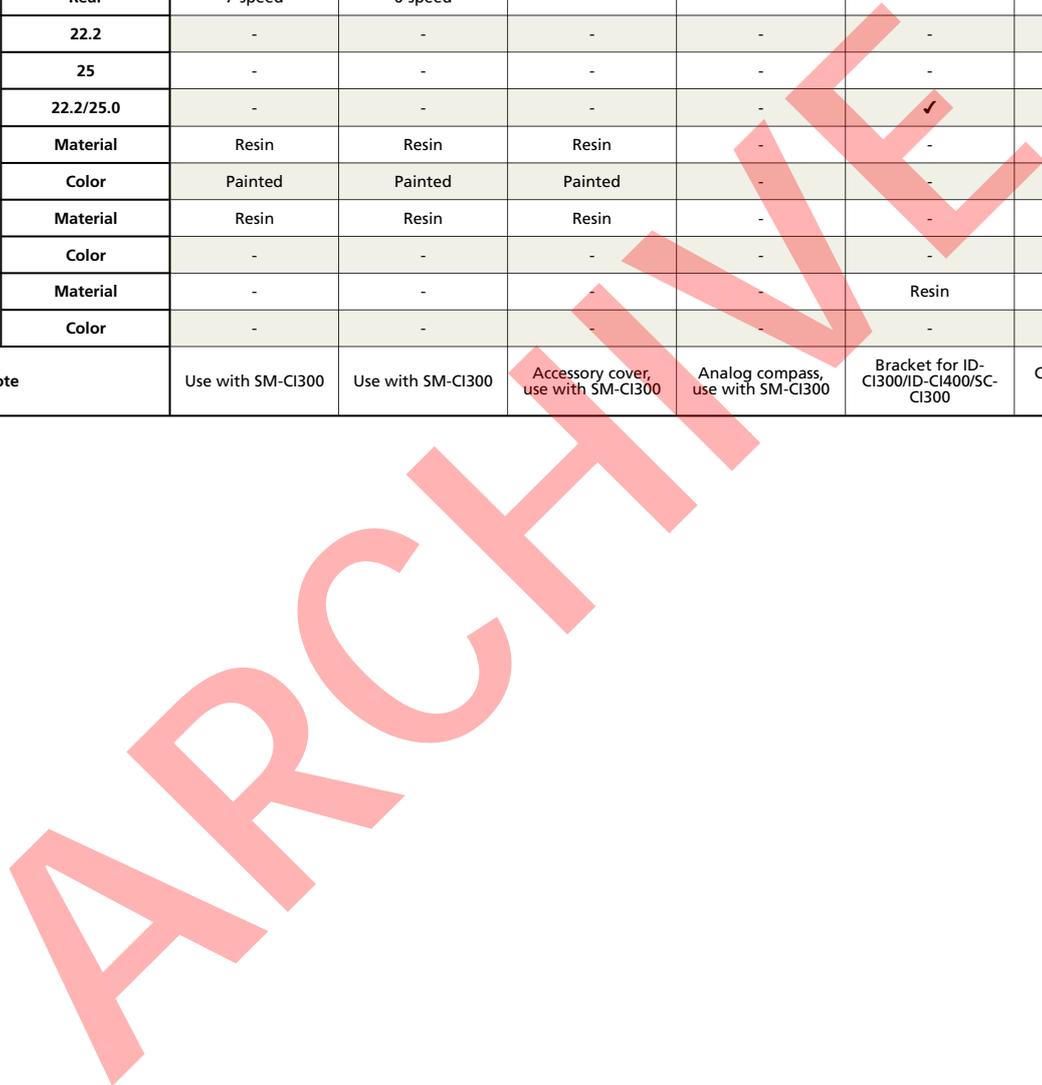
CI-DECK

# Wheel (Disc Brake)

Series		SHIMANO
Model no.		WH-MT15-A-F15-275
Model name		WH-MT15-A
Spec.		F15-275
Color	1 Hub Shell	Black
	1 Quick release	Black
	2 Hub Shell	White
	2 Quick release	Black
Front/Rear		Front
Brake type		CENTER LOCK Disc
Speeds		-
O.L.D. (mm)		100
Wheel Size		584 x 19C (650B = 27.5 inch)
External serration disc brake rotor lock ring	with	✓
	without	-
Tire	Type	Clincher
	Recommended size	27.5 x 1.90 - 2.25
Rim	Height (mm)	21
	Width (mm)	24.6
	Rim joint	Sleeve
	Brazed reinforcement	-
	OFFSET RIM	-
	Requires rim tape	✓ (20-584)
Spokes	Number	28
	Straight pull	-
	J-bend	✓
	Butted	2.0
	Bladed	✓
Axle fixing method		15 mm E-THRU
Quick release skewer length	133 mm	-
	168 mm	-
	173 mm	-
Thru Axle (Length x Inner diameter ; mm)	100 x 15	✓
	110 x 15	-
	142 x 12	-
	148 x 12	-
MICRO SPLINE		-
HG spline (ROAD 11-speed)		-
HG spline (MTB 7-speed)		-
HG spline (Others)		-
Ratchet system type		-
Quick engagement		-
Bearing	Stainless ball	-
	Cup	-
	Cone	CBN
Seal	Hub	Labyrinth & Contact
	FREEHUB body	-
Internal grease sleeve		✓
Rim	Material	Aluminum
	Finish	Anodized (Black rim)
Spoke	Material	Stainless steel
	Finish	Black
Nipple	Material	Brass
	Finish	Silver
FREEHUB body	Material	-
	Finish	-
Hub shell	Material	Aluminum
	Finish	Painted
Axle	Material	Aluminum
	Finish	Anodized
Quick release lever	Material	-
	Finish	-
	Color	-
Quick release housing	Material	-
	Finish	-
Quick release nut	Material	-
	Finish	-
Disc brake rotor lock ring	Material	Steel
	Finish	Painted
Reflector	JIS/CPSC	CATEYE RR-550-WUW SV
	AS	CATEYE RR-550-WUA SV
	DIN	CATEYE RR317-WUA SV
Average weight (g) (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)		995 (Black) 1,000 (White)
Note		

# CI-DECK

Series		SHIMANO CI-DECK	SHIMANO CI-DECK	SHIMANO CI-DECK	SHIMANO CI-DECK	SHIMANO CI-DECK	SHIMANO CI-DECK
Model no.		ID-CI300-7R	ID-CI300-6R	ID-CI300-LC	ID-CI400	SM-CI300	SM-CI301
Compatible shifting lever		SL-RS34/RS35/RS36/RS45/RS47	SL-RS34/RS35/RS36/RS45/RS47	-	-	-	-
Front speeds		-	-	-	-	-	-
Rear speeds		7	6	-	-	-	-
Shifting lever 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

ST

ST

RD

FD

BR

BR

BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

ARCHIVE

	<i>Page</i>	
<b>Shifting Lever</b>	<b>102</b>	SL
<b>Brake Lever</b> (Hydraulic Disc Brake)	<b>103</b>	BL
<b>Brake Lever</b>	<b>104</b>	BL
<b>Rear Derailleur</b>	<b>105</b>	RD
<b>Front Derailleur</b>	<b>106</b>	FD
<b>Brake</b> (V-BRAKE)	<b>108</b>	BR
<b>Crankset</b>	<b>109</b>	FC
<b>Front Hub</b> (Rim/Disc Brake)	<b>111</b>	HB
<b>FREEHUB</b> (Rim/Disc Brake)	<b>112</b>	FH

# Shifting Lever

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE	SHIMANO 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	-
I-SPEC B-type compatible		-	-	-	-
I-SPEC II compatible		-	-	-	-
Shifting lever position adjust		-	-	-	-
Shifting lever rotation adjust		-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓
2/3 mode converter		-	-	-	-
Max. multiple shifts (Main lever/rear)		4	-	3	-
Release function	MULTI RELEASE	✓	-	-	-
	INSTANT RELEASE	✓	✓	-	-
	2-WAY RELEASE	✓	✓	✓	✓
OPTICAL GEAR DISPLAY	with	✓	✓	✓	✓
	with (removable)	-	-	-	-
	without	-	-	-	-
Multi-Bearing construction		2	2	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Clamp bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	GFRP & Steel	GFRP & Steel
	Finish	Painted	Painted	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP
	Finish	Painted	Painted	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		126	120	-	-
Note					

# Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO 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		Banjo	Banjo	Straight
Brake hose color (Kit)	1	Black	Black	Black
	2	-	-	-
J-Kit spec (for OEM)		✓	✓	✓
Recommended brake caliper		BR-M8100 BR-M8120	BR-M8000	BR-M6000
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓	✓
Reach adjust	Toolless	✓	✓	-
	Tool	-	-	✓
Free stroke adjust		-	-	-
SERVO WAVE		-	-	-
Clamp band	Open clamp	✓	✓	✓
	I-SPEC II	✓	✓	✓
	I-SPEC	-	-	-
Clamp bolt	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) (kit for front 800 mm, w/ 160 mm recommend disc brake rotor, w/ lock ring, w/o adapter, w/ 2 bolts, w/ Resin pad)		108 **	108 **	-
Note		** Single item weight	** Single item weight	* T6000 kit only

SL

BL

BL

RD

FD

BR

FC

HB

FH

# Brake Lever

Series		SHIMANO DEORE	SHIMANO 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 bolt		✓	✓	✓	✓
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		SHIMANO DEORE XT	SHIMANO DEORE	SHIMANO ALIVIO	SHIMANO ACERA
Model no.		RD-T8000-SGS	RD-T6000-SGS	RD-T4000	RD-T3000
Pulley cage		SGS	SGS	SGS	SGS
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
Top-Normal spring type	SHIMANO SHADOW RD	✓	✓	-	-
	SHIMANO SHADOW RD+	-	-	-	-
	Double servo	-	-	✓	✓
Mount	Direct attachment (Conventional)	✓	✓	✓	✓
	Direct mount compatible	✓*	✓*	-	-
	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	G pulley bearing	Sealed Bearing	-	-	-
	T pulley bearing	Sealed Bearing	-	-	-
	Teeth	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Steel	Steel
	Sunken type pulley bolt	✓	✓	✓	✓
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 bolt	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.		

SL

BL

BL

RD

FD

BR

FC

HB

FH

# Front Derailleur

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE	SHIMANO DEORE	SHIMANO 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	
Speeds	Front	3	3	3	3	3	3	
	Rear	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	
Chain stay angle		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 bolt		-	-	-	-	✓	✓	
Angled stroke adjust bolt		-	-	-	-	-	-	
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 bolt	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 bolt	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/ bolt)		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		SHIMANO ACERA	SHIMANO ACERA	SHIMANO ACERA	
Model no.		FD-T3000-2-TS3	FD-T3000-TS3	FD-T3000-TS6	
Color	1	Black	Series color	Black	
	2	-	-	-	
Speeds	Front	2	3	3	
	Rear	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	
Chain stay angle		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 bolt		-	-	-	
Angled stroke adjust bolt		-	-	-	
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 bolt	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 bolt	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/ bolt)		-	-	-	
Note					

# Brake (V-BRAKE)

Series		SHIMANO 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 bolt length (mm)	16	✓	✓
	25	✓	✓
Fixing bolt	Material	Steel	Steel
	Finish	Plated	Zn plated
	Chamfered bolt	✓	-
POWER MODULATOR		SM-PM70	SM-PM40
Linear spring		✓	✓
Stainless cable fixing bolt		-	-
Average weight (g)		-	-
Note			



# Crankset

Series		SHIMANO DEORE XT	SHIMANO 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	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 for 9-speed	HG for 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	48-36-26T 44-32-24T	48-36-26T 44-32-24T	48-36-26T 44-32-22T	48-36-26T 44-32-22T
Q-factor (mm)		176	181.5	181.1	185.8	181.7	187.8
Crank arm length (mm)	165.0	-	-	-	-	✓	✓
	167.5	-	-	-	-	-	-
	170.0	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175.0	✓	✓	✓	✓	✓	✓
	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-MT800	SM-BB52	SM-BB52	BB-ES300	SM-BB52	BB-ES300
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	SM-BB52	SM-BB52	-	SM-BB52	-
	Press-fit	BB-MT800-PA	BB-MT500-PA	-	-	-	-
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	121-AK	-	126
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	121-AK	-	126-K
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	Aluminum (48-36-26T) Steel + GF composite (44-32-24T)	Steel (48-36-26T) Steel + GF composite (44-32-24T)	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 bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	✓	✓	✓	✓	✓
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average weight (g) (175mm, w/o bottom bracket)		868 (48-36-26T)	-	-	-	-	-
Note							

SL

BL

BL

RD

FD

BR

FC

HB

FH

# Crankset

Series		SHIMANO
Model no.		FC-T3010
Color	1	Black
	2	Silver
Rear speeds		9
Compatible chain		HG for 9-speed
Chain line (mm)		50
P.C.D. (mm)		104/64
Spider/Gear arms		4
Chaining combination		48-36-26T 44-32-22T
Q-factor (mm)		187.3
Crank arm length (mm)	165.0	✓
	167.5	-
	170.0	✓
	172.5	-
	175.0	✓
	177.5	-
Optional chain guard	180.0	-
	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/E5 (mm)	Threaded (normal)	LL123
	Threaded (E-type)	-
	Threaded (chain case)	LL123-K
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 bolt	Material	Stainless steel
	Finish	-
Stainless chain guard fixing bolt		- (48-36-26T) ✓ (44-32-22T)
Crank fixing bolt included		✓
Average weight (g) (175mm, w/o bottom bracket)		-
Note		

# Front Hub (Rim/Disc Brake)

SL

BL

BL

RD

FD

BR

FC

HB

FH

Series		SHIMANO 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	129 mm	-	-
	133 mm	✓	✓
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	Resin & steel	Resin & steel
	Finish	-	-
Disc brake rotor lock ring	Material	-	-
	Finish	-	-
Average weight (g)		-	-
Note			

# FREEHUB (Rim/Disc Brake)

Series		SHIMANO 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
Speeds		8-10 speed, MTB 11-speed	8-10 speed, MTB 11-speed
O.L.D. (mm)		135	135
Spoke hole	28H	-	-
	32H	✓	✓
	36H	✓	✓
External serration rotor lock ring	with	-	-
	without	-	-
Internal serration rotor lock ring	with	-	-
	without	-	-
CENTER LOCK mount cover option		-	-
Axle fixing method		Quick release	Quick release
Quick release skewer length	166 mm	-	✓
	168 mm	✓	-
	170 mm	-	✓
	173 mm	✓	-
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
Quick engagement		-	-
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	Resin & Steel	Steel + Resin
	Finish	-	-
Rotor lock ring	Material	-	-
	Finish	-	-
Average weight (g) (w/o axle, quick release nor lock ring)		-	-
Note			

# GRAVEL/ADVENTURE

	<i>Page</i>	
<b>Single Lever</b> (Hydraulic Disc Brake)	<b>114</b>	SL
<b>Brake Lever</b> (Sub Lever for Hydraulic Disc Brake)	<b>115</b>	BL
<b>Shifting/Brake Lever</b> (Hydraulic Disc Brake)	<b>116</b>	ST
<b>Rear Derailleur</b>	<b>117</b>	RD
<b>Front Derailleur</b>	<b>118</b>	FD
<b>Brake</b> (Hydraulic Disc Brake)	<b>119</b>	BR
<b>Crankset</b>	<b>120</b>	FC
<b>Wheel</b> (Disc Brake)	<b>121</b>	WH

# Single Lever (Hydraulic Disc Brake)

Series		SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	
Model no.		BL-RX810-L	BL-RX600-L	ST-RX810-LA	
Color	1	Series color	Series color	Series color	
	2	-	-	-	
Bracket cover color	1	Standard	Standard	Standard	
	2	-	-	-	
Shifter type		Single Lever	Single Lever	Single lever for adjustable seat post	
Shifting lever	Front speeds		1	1	1
	Rear speeds		-	-	-
	2/3 mode converter		-	-	-
	Max. multiple shifts (Main lever/rear)		-	-	-
	Compatible rear derailleur type		-	-	-
	I-SPEC compatible		-	-	-
	Shifting lever position adjust		-	-	-
	Release function	MULTI RELEASE	-	-	-
		INSTANT RELEASE	-	-	-
		2-WAY RELEASE	-	-	-
	OPTICAL GEAR DISPLAY	With	-	-	-
		With (removable)	-	-	-
		Without	-	-	-
	Multi-Bearing construction		-	-	-
	Shifting lever outer casing	Lever side	-	-	OT-SP41
		Rear derailleur side	-	-	-
	Shifting lever cable	Polymer-coated cable	-	-	-
		OPTISLIC K	-	-	✓
		SIL-TEC	-	-	-
		Stainless	-	-	-
Steel		-	-	-	
Included		-	-	-	
Pre assembled		-	-	-	
Brake lever	Lever size (Finger)		-	-	-
	Brake hose (Kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR SM-BH90-J-SSR	SM-BH90-JK-SSR
	Hose joint		Straight	Straight	Straight
	Brake hose color (kit)	1	Black	Black	Black
		2	-	-	-
	Recommended brake caliper		BR-RX810	BR-RX810	BR-RX810
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
		Reach adjust	Tool less	-	-
			Tool	✓	✓
	Funnel bleeding		✓	✓	✓
Free stroke adjust		✓	-	✓	
SERVO WAVE		✓	-	✓	
Clamp band	Open clamp		-	-	-
	I-SPEC		-	-	-
	Diameter (mm)		23.8-24.2	23.8-24.2	23.8-24.2
Bracket	Material		Engineering Composite	Engineering Composite	Engineering Composite
	Finish		-	-	-
Brake lever	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted
Shifter lever body	Main		-	-	-
	Release		Resin & Steel	Resin & Steel	Resin & Steel
Master cylinder	Material		-	-	-
	Finish		-	-	-
Clamp band		Steel	Steel	Steel	
Average weight (g)		222	227	263	
Note					

# Brake Lever (Sub Lever for Hydraulic Disc Brake)

SL

BL

ST

RD

FD

BR

FC

WH

Series		SHIMANO GRX	SHIMANO 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	-	-
Recommended brake caliper		BR-RX810	BR-RX810
Oil		SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓
Reach adjust	Toolless	-	-
	Tool	✓	✓
Free stroke adjust		-	-
SERVO WAVE		-	-
Clamp band	New band	✓	✓
	Open clamp	-	-
	I-SPEC B	-	-
	I-SPEC II	-	-
Clamp bolt	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)		81.9	81.9
Note		-	-

# Shifting/Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	
Model no.		ST-RX810-R	ST-RX810-L	ST-RX600-R	ST-RX600-L	ST-RX400-R	ST-RX400-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	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds	-	2	-	2	-	2	
	Rear speeds	11	-	11	-	10	-	
	2/3 mode converter	-	-	-	-	-	-	
	Max. multiple shifts (Main lever/rear)	2	-	2	-	2	-	
	Compatible rear derailleur type	Road 11-speed	-	Road 11-speed	-	Road 10-speed	-	
	I-SPEC compatible	-	-	-	-	-	-	
	Shifting lever position adjust	-	-	-	-	-	-	
	Release function	MULTI RELEASE	-	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-	-
		2-WAY RELEASE	-	-	-	-	-	-
	OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction	-	-	-	-	-	-	
	Shifting lever outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-RS900	OT-RS900	OT-RS900	OT-RS900	OT-RS900	OT-RS900
	Shifting lever cable	Polymer-coated cable	✓	✓	-	-	-	-
OPTISLIC K		-	-	✓	✓	✓	✓	
SIL-TEC		-	-	-	-	-	-	
Stainless		-	-	-	-	-	-	
Steel		-	-	-	-	-	-	
Included		✓	✓	✓	✓	✓	✓	
Pre assembled	✓	✓	✓	✓	✓	✓		
Brake lever	Lever size (Finger)	-	-	-	-	-	-	
	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	1	Straight	Straight	Straight	Straight	Straight	
		2	Black	Black	Black	Black	Black	
	Recommended brake caliper	BR-RX810	BR-RX810	BR-RX810	BR-RX810	BR-RX400	BR-RX400	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	
		Tool less	-	-	-	-	-	
	Reach adjust	Tool	✓	✓	✓	✓	✓	
		Funnel bleeding	✓	✓	✓	✓	✓	
	Free stroke adjust	✓	✓	-	-	-	-	
	SERVO WAVE	✓	✓	-	-	-	-	
Clamp band	Open clamp	-	-	-	-	-		
	I-SPEC	-	-	-	-	-		
	Diameter (mm)	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	
Bracket	Material	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite		
	Finish	-	-	-	-	-		
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum		
	Finish	Painted	Painted	Painted	Painted	Painted		
Shifter lever body	Main	-	-	-	-	-		
	Release	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel		
Master cylinder	Material	-	-	-	-	-		
	Finish	-	-	-	-	-		
Clamp band		Steel	Steel	Steel	Steel	Steel		
Average weight (g)		286	284	307	306	307		
Note								

# Rear Derailleur

Series		SHIMANO GRX	SHIMANO GRX	SHIMANO GRX
Model no.		RD-RX810	RD-RX812	RD-RX400
Pulley cage		-	-	-
Color	1	Series color	Series color	Series color
	2	-	-	-
Rear speeds		11	11	10
Compatible chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-X 10-speed
Top-Normal spring type	SHIMANO SHADOW RD	-	-	-
	SHIMANO SHADOW RD+	✓	✓	✓
	Double servo	-	-	-
Mount	Direct attachment (Conventional)	✓	✓	✓
	Riveted adapter (Road type)	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-
Cable adjuster		✓	✓	✓
Max. front difference		17T	-	16T
Total capacity		40T	31T	41T
Low sprocket	Max.	34T	42T	36T
	Min.	30T	40T	32T
Top sprocket	Max.	11T	11T	11T
	Min.	11T	11T	11T
Fluoroc coated link bushings		4	4	4
Pulley	G pulley bearing	✓	✓	-
	T pulley bearing	✓	✓	-
	Teeth	13T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	✓	✓	✓
Bracket	Material	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Painted
B-axle	Hollow axle	✓	✓	✓
	Material	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-
B-axle 2	Hollow axle	-	-	-
	Material	Aluminum	Aluminum	Stainless steel
	Finish	Anodized	Anodized	-
Bracket body	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel
	Finish	-	-	-
Plate body	Material	GFRP	GFRP	GFRP
	Finish	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Inner link	Material	GFRP	Aluminum	GFRP
	Finish	-	Painted	-
Outer plate	Material	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted
Average weight (g)		255	267	303
Note		-	-	-

SL

BL

ST

RD

FD

BR

FC

WH

# Front Derailleur

Series		SHIMANO GRX	SHIMANO GRX
Model no.		FD-RX810-F	FD-RX400-F
Color	1	Series color	Series color
	2	-	-
Speeds	Front	2	2
	Rear	11	10
Compatible chain		HG-EV 11-speed HG-X11	HG-X 10-speed
Action	TOP SWING	-	-
	Down Swing	✓	✓
Mount	Clamp Band (mm)	28.6	-
		31.8	-
		34.9	-
	Brazed-On	✓	✓
Cable adjust		✓	-
Top-Pull exclusive option		-	-
Chain line (mm)		46	46
Chain stay angle (deg.)		61-66	61-66
Top gear teeth		46-48T	46T
Total capacity		17T	16T
Applicable Top-Mid tooth difference		-	-
Angled clamp band design		-	-
Multi-Bearing construction		-	-
Link bushings		7	7
Front clamp band	Material	-	-
	Finish	-	-
Rear clamp band, base bracket	Material	-	-
	Finish	-	-
Outer link	Material	GFRP	GFRP
	Finish	Painted	Painted
Inner link	Material	Aluminum	Steel
	Finish	Plated	Plated
Chain guide	Material	Steel	Steel
	Finish	Chrome plated	Chrome plated
Cable fixing bolt	Material	Stainless steel	Stainless steel
	Finish	-	-
Stroke adjusting screw	Material	Steel	Steel
	Finish	Black	Black
Average weight (g) (Band type: L size, Direct type: w/ bolt)		96	96
Note			

# Brake (Hydraulic Disc Brake)

Series		SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	SHIMANO GRX
Model no.		BR-RX810-F	BR-RX810-R	BR-RX400-F	BR-RX400-R
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Color	1	Series color	Series color	Series color	Series color
	2	-	-	-	-
	3	-	-	-	-
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
Hose joint		Straight	Straight	Straight	Straight
Brake hose color (Kit)	1	Black	Black	Black	Black
	2	-	-	-	-
ICE-TECHNOLOGIES pad compatible caliper		✓	✓	✓	✓
Pad	Standard 1	K03S Resin	K03S Resin	K03S Resin	K03S Resin
	Standard 2	L03A-Resin	L03A-Resin	L03A-Resin	L03A-Resin
	Option 1	K04S Metal	K04S Metal	K04S Metal	K04S Metal
	Option 2	L04C-Metal	L04C-Metal	L04C-Metal	L04C-Metal
Fixing bolt 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-RX810 BL-RX810 ST-RX815	ST-RX810 BL-RX810 ST-RX815	ST-RX400	ST-RX400
Recommended brake rotor		SM-RT800 RT-MT800	SM-RT800 RT-MT800	SM-RT64	SM-RT64
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	✓	✓
Mount type		Flat mount	Flat mount	Flat mount	Flat mount
Piston		2	2	2	2
Piston material		Ceramic	Ceramic	Resin	Resin
Caliper	MONO-BODY	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel
	Tool size	4 mm	4 mm	4 mm	4 mm
	Anti loosen method	Bolt fix pin, snap ring	Bolt fix pin, snap ring	Bolt fix pin, snap ring	Bolt fix pin, snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		148	138	-	-
Note		Front spec with adaptor	Front spec with adaptor	Front spec with adaptor	Front spec with adaptor

SL

BL

ST

RD

FD

BR

FC

WH

# Crankset

Series		SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	SHIMANO GRX
Model no.		FC-RX810-2	FC-RX810-1	FC-RX600-11	FC-RX600-10	FC-RX600-1
Color	1	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-
Rear speeds		11	11	11	10	11
Compatible chain		HG-EV 11-speed, HG-X11	HG-EV 11-speed, HG-X11	HG-EV 11-speed, HG-X11	HG-10-speed	HG-EV 11-speed, HG-X11
Chain line (mm)		46.9	49.7	46.9	46.9	49.7
P.C.D. Left/Right (mm)		110/80	110	110/80	110/80	110
Spider/Gear arms		4	4	4	4	4
Chain ring combination		48-31T	42T/40T	46-30T	46-30T	40T
Q-factor		151	151	151	151	151
Crank arm length (mm)	165	-	-	✓	✓	✓
	167.5	-	-	-	-	-
	170	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	✓	✓
	175	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-
	180	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	-
	Without chain 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	BB-RS500	BB-RS500	BB-RS500
	Pressfit	SM-BB72	SM-BB72	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	-	-
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	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized (teeth), Painted (body)	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	Aluminum	Aluminum	Stainless Steel	Stainless Steel	Stainless Steel
	Finish	Anodized	Anodized	-	-	-
Inner ring fixing bolt	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		710	656 (42T) 644 (40T)	806	810	743
Note		-	-	-	-	-

# Wheel (Disc Brake)

SL

BL

ST

RD

FD

BR

FC

WH

Series		SHIMANO GRX	SHIMANO GRX	SHIMANO GRX	SHIMANO GRX
Model no.		WH-RX570-TL-F12-700C	WH-RX570-TL-F12-650B	WH-RX570-TL-R12-700C	WH-RX570-TL-R12-650B
Model name		WH-RX570-TL-F12-700C	WH-RX570-TL-F12-650B	WH-RX570-TL-R12-700C	WH-RX570-TL-R12-650B
SPEC					
Color	1	Black	Black	Black	Black
	2	-	-	-	-
Front/Rear		Front	Front	Rear	Rear
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds		-	-	Road 11/10 speed	Road 11/10 speed
O.L.D. (mm)		100	100	142	142
Wheel Size		622 x 21C (700C)	584 x 21C (650B = 27.5 inch)	622 x 21C (700C)	584 x 21C (650B = 27.5 inch)
Rim	Height (mm)	22	22	22	22
	Width (mm)	21.6 (Internal)	21.6 (Internal)	21.6 (Internal)	21.6 (Internal)
	Rim joint	Welded	Welded	Welded	Welded
Braze reinforcement		-	-	-	-
Spokes	Number (Front/Rear)	24	24	24	24
	Straight spoke	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓
	Butted	-	-	-	-
Axle Fixing method		E-THRU	E-THRU	E-THRU	E-THRU
Quick release skewer length (mm)	129	-	-	-	-
	133	-	-	-	-
	161	-	-	-	-
	163	-	-	-	-
	166	-	-	-	-
	168	-	-	-	-
	170	-	-	-	-
	173	-	-	-	-
Axle length (mm)		100	100	142	142
Axle diameter (mm)		12	12	12	12
Thru Axle (Length x Inner diameter ; mm)	100 x 8	-	-	-	-
	100 x 12	✓	✓	-	-
	100 x 15	-	-	-	-
	110 x 20	-	-	-	-
	135 x 10	-	-	-	-
	135 x 12	-	-	-	-
	142 x 12	-	-	✓	✓
	150 x 12	-	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	Polish	Polish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish
Disc mount	CENTER LOCK	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-
	140 mm Disc brake rotor compatible	✓	✓	-	-
OPTBAL (2:1)		-	-	-	-
D2 rim		-	-	-	-
OFFSET RIM		✓	✓	✓	✓
Digital adjustment system		-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact
	FREEHUB body	-	-	Contact	Contact
Internal grease sleeve		✓	✓	✓	✓
Requires rim tape		✓	✓	✓	✓
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless
	Recommended size	32-622 - 42-622	38-584 - 53-584	32-622 - 42-622	38-584 - 53-584
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized, Painted	Anodized, Painted	Anodized, Painted	Anodized, Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black	Black	Black	Black
FREEHUB body	Material	-	-	Steel	Steel
	Finish	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	-	-	-
Quick release lever	Material	-	-	-	-
	Finish	-	-	-	-
Quick release housing	Material	-	-	-	-
	Finish	-	-	-	-
Quick release nut	Material	-	-	-	-
	Color	-	-	-	-
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	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		769	737	951	920
Note					

ARCHIVE

	<i>Page</i>	
<b>Shifting/Brake Lever</b>	<b>124</b>	<b>ST</b>
<b>Shifting/Brake Lever (Hydraulic Disc Brake)</b>	<b>129</b>	<b>ST</b>
<b>Shifting Lever</b>	<b>132</b>	<b>SL</b>
<b>Brake Lever</b>	<b>134</b>	<b>BL</b>
<b>Brake Lever (Hydraulic Disc Brake)</b>	<b>136</b>	<b>BL</b>
<b>Brake (Caliper Brake)</b>	<b>137</b>	<b>BR</b>
<b>Brake (Hydraulic Disc Brake)</b>	<b>141</b>	<b>BR</b>
<b>Brake (Mechanical Disc Brake)</b>	<b>143</b>	<b>BR</b>
<b>Brake (V-BRAKE)</b>	<b>144</b>	<b>BR</b>
<b>Brake (Cantilever Brake)</b>	<b>144</b>	<b>BR</b>
<b>Brake Cable</b>	<b>144</b>	<b>BC</b>
<b>Rear Derailleur</b>	<b>145</b>	<b>RD</b>
<b>Front Derailleur</b>	<b>149</b>	<b>FD</b>
<b>Crankset</b>	<b>154</b>	<b>FC</b>
<b>Bottom Bracket (HOLLOWTECH II)</b>	<b>159</b>	<b>BB</b>
<b>Bottom Bracket</b>	<b>159</b>	<b>BB</b>
<b>Cassette Sprocket</b>	<b>160</b>	<b>CS</b>
<b>Front Hub (Rim/Disc Brake)</b>	<b>163</b>	<b>HB</b>
<b>FREEHUB (Rim/Disc Brake)</b>	<b>165</b>	<b>FH</b>
<b>Wheel (Rim Brake)</b>	<b>167</b>	<b>WH</b>
<b>Wheel (Disc Brake)</b>	<b>172</b>	<b>WH</b>
<b>Head Parts</b>	<b>175</b>	<b>HP</b>

# Shifting/Brake Lever

Series		DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO 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	-	-	-	-	-	-	
Bracket cover color	1	Series color	Series color	2-Tone	Black	Black	Black	
	2	-	-	-	-	-	White	
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds	-	2	2	-	2	2	
	Rear speeds	11	-	11	11	-	11	
	OPTICAL GEAR DISPLAY	-	-	-	-	-	-	
	FLIGHT DECK	-	-	-	-	-	-	
	Multi-Bearing construction	R:4 L:4	R:4 L:4	R:4 L:4	*	*	- *	
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleurs side	OT-RS900	OT-RS900	OT-SP41 Sealed	OT-RS900	OT-RS900	OT-SP41 Sealed
	Shifting lever cable	Material	Stainless steel	Stainless steel				
		Finish	Polymer coated	Polymer coated				
	Shifting lever cable shipping condition	Not Pre-Assembled	✓	✓	✓	✓	✓	✓
Pre-Assembled		✓	✓	✓	✓	✓	✓	
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	Cable adjuster bracket	-	-	-	-	-	-	
	Material	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP	
	Finish	CFRP	CFRP	CFRP	CFRP	CFRP	CFRP	
Main lever	Material	Carbon	Carbon	Carbon	CFRP	CFRP	CFRP	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Average weight (g)		365 (/pair)	365 (/pair)	365 (/pair)	220 (/pc)	218 (/pc)	425 (/pair)	
Note					* Use bush	* Use bush	* Use bush	

# Shifting/Brake Lever

Series		SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO 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	-	-	-	
Bracket cover color	1	Black	Black	Black	Black	Black	Black	
	2	-	-	White	-	-	-	
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds	-	2	2	-	2	3	
	Rear speeds	11	-	11	10	-	-	
	OPTICAL GEAR DISPLAY	-	-	-	-	-	-	
	FLIGHT DECK	-	-	-	-	-	-	
	Multi-Bearing construction	0	0	0	0	0	0	
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleurs side	OT-RS900	OT-RS900	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	Shifting lever cable	Material	Stainless steel	Stainless steel				
		Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
	Shifting lever cable shipping condition	Not Pre-Assembled	✓	✓	✓	✓	✓	✓
Pre-Assembled		✓	✓	✓	✓	✓	✓	
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	Cable adjuster bracket	-	-	-	-	-	-	
	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
	Finish	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
Main lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Average weight (g)		251 (/pc)	249 (/pc)	486 (/pair)	-	-	-	
Note		-	-	-	-	-	-	

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

# Shifting/Brake Lever

Series		SHIMANO	SHIMANO SORA	SHIMANO SORA	SHIMANO SORA	SHIMANO	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	-	-	-	-	-	-	
Bracket cover color	1	Black	Standard	Standard	Standard	Black	Black	
	2	-	-	-	-	-	-	
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds	2	-	2	3	3	-	
	Rear speeds	10	9	-	-	-	8	
	OPTICAL GEAR DISPLAY	✓	-	-	-	✓	-	
	FLIGHT DECK	-	-	-	-	-	-	
	Multi-Bearing construction	-	0	0	0	-	-	
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleurs side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel
		Finish	-	OPTISLICK	OPTISLICK	OPTISLICK	SIL-TEC	OPTISLICK
	Shifting lever cable shipping condition	Not Pre-Assembled	✓	-	-	-	✓	-
Pre-Assembled		-	✓	✓	✓	-	✓	
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	Cable adjuster bracket	-	-	-	-	-	-	
	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
	Finish	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP	
Main lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
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		

# Shifting/Brake Lever

Series		SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO TOURNEY	
Model no.		ST-R2000-L	ST-R2030-L	ST-RS200-R	ST-RS200-L	ST-RS203-L	ST-A070	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Black	Black	-	-	-	Black	
	2	-	-	-	-	-	-	
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	DUAL CONTROL LEVER	
Shifting lever	Front speeds	2	3	-	2	3	2	
	Rear speeds	-	-	8	-	-	7	
	OPTICAL GEAR DISPLAY	-	-	✓	✓	✓	✓	
	FLIGHT DECK	-	-	-	-	-	-	
	Multi-Bearing construction	-	-	-	-	-	-	
	Outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40
		Rear derailleurs side	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SIS40
	Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Stainless steel *
		Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	-
	Shifting lever cable shipping condition	Not Pre-Assembled	-	-	-	-	-	✓
Pre-Assembled		✓	✓	✓	✓	✓	-	
Brake lever	Reach adjust	Screw	Screw	✓	✓	✓	Screw	
	Clamp band (mm)	23.8 - 24.2	23.8 - 24.2	22.2	22.2	22.2	23.8 - 24.2	
	SLR-EV	-	-	-	-	-	-	
	NEW SUPER SLR	✓	✓	-	-	-	-	
	super SLR	-	-	✓	✓	✓	✓	
Bracket	Cable adjuster bracket	-	-	✓	✓	✓	-	
	Material	GFRP	GFRP	Aluminum	Aluminum	Aluminum	GFRP	
	Finish	GFRP	GFRP	Painted	Painted	Painted	GFRP	
Main lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Average weight (g)		-	-	-	-	-	-	
Note							* Option	

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

# Shifting/Brake Lever

Series		SHIMANO TOURNEY	
Model no.		ST-A073-L	
Color	1	Series color	
	2	-	
Bracket cover color	1	Black	
	2	-	
Lever type		DUAL CONTROL LEVER	
Shifting lever	Front speeds		3
	Rear speeds		-
	OPTICAL GEAR DISPLAY		✓
	FLIGHT DECK		-
	Multi-Bearing construction		-
	Outer casing	Lever side	OT-SIS40
		Rear derailleurs side	OT-SIS40
	Shifting lever cable	Material	Stainless steel *
		Finish	-
	Shifting lever cable shipping condition	Not Pre-Assembled	✓
Pre-Assembled		-	
Brake lever	Reach adjust		Screw
	Clamp band (mm)		23.8 - 24.2
	SLR-EV		-
	NEW SUPER SLR		-
	super SLR		✓
Bracket	Cable adjuster bracket		-
	Material		GFRP
	Finish		GFRP
Main lever	Material		Aluminum
	Finish		Painted
Average weight (g)		-	
Note		* Option	

# Shifting/Brake Lever (Hydraulic Disc Brake)

Series		DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO 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	-	-	-	-	-	-	
Bracket cover color	1	Standard	Standard	Standard	Standard	Black	Black	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER						
Shifting lever	Front speeds	-	2	-	2	-	2	
	Rear speeds	11	-	11	-	11	-	
	2/3 mode converter	-	-	-	-	-	-	
	Max. multiple shifts (Main lever/rear)	2	-	2	-	2	-	
	Compatible rear derailleur type	Road 11-speed	-	Road 11-speed	-	Road 11-speed	-	
	I-SPEC compatible	-	-	-	-	-	-	
	Shifting lever position adjust	-	-	-	-	-	-	
	Release function	MULTI RELEASE	-	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-	-
		2-WAY RELEASE	-	-	-	-	-	-
	OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction	-	-	-	-	-	-	
	Shifting lever outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Rear derailleur side		OT-RS900	OT-RS900	OT-RS900	OT-RS900	OT-RS900	OT-RS900	
Shifting lever cable	Polymer-coated cable	✓	✓	✓	✓	✓	✓	
	OPTISLIC K	-	-	-	-	-	-	
	SIL-TEC	-	-	-	-	-	-	
	Stainless	-	-	-	-	-	-	
	Steel	-	-	-	-	-	-	
	Included	✓	✓	✓	✓	✓	✓	
Pre assembled	✓	✓	✓	✓	✓	✓		
Brake lever	Lever size (Finger)	-	-	-	-	-	-	
	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	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral				
		Tool less	-	-	-	-	-	-
	Reach adjust	Tool	✓	✓	✓	✓	✓	
	Funnel bleeding	✓	✓	✓	✓	✓	✓	
Free stroke adjust	✓	✓	✓	✓	✓	✓		
SERVO WAVE	✓	✓	✓	✓	✓	✓		
Clamp band	Open clamp	-	-	-	-	-	-	
	I-SPEC	-	-	-	-	-	-	
Bracket	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	
	Material	Engineering Composite						
Brake lever	Finish	-	-	-	-	-	-	
	Material	CFRP	CFRP	Engineering Composite	Engineering Composite	Aluminum	Aluminum	
Shifter lever body	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
	Main	-	-	-	-	-	-	
Master cylinder	Release	Resin & Steel						
	Material	-	-	-	-	-	-	
Clamp band	Finish	-	-	-	-	-	-	
	Material	Titanium	Titanium	Steel	Steel	Steel	Steel	
Average weight (g)	538 (/pair)	538 (/pair)	554 (/pair)	554 (/pair)	568 (/pair)	568 (/pair)		
Note						For small hand.	For small hand.	

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

# Shifting/Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO TIAGRA	SHIMANO TIAGRA	
Model no.		ST-R7020-R	ST-R7020-L	ST-R7025-R	ST-R7025-L	ST-4720-R	ST-4720-L	
Color	1	Silky Black	Silky Black	Silky Black	Silky Black	Series color	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Standard	Standard	Standard	Standard	Standard	Standard	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER						
Shifting lever	Front speeds	-	2	-	2	-	2	
	Rear speeds	11	-	11	-	10	-	
	2/3 mode converter	-	-	-	-	-	-	
	Max. multiple shifts (Main lever/rear)	2	-	2	-	2	-	
	Compatible rear derailleur type	Road 11-speed	-	Road 11-speed	-	Road 10-speed	-	
	I-SPEC compatible	-	-	-	-	-	-	
	Shifting lever position adjust	-	-	-	-	-	-	
	Release function	MULTI RELEASE	-	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-	-
		2-WAY RELEASE	-	-	-	-	-	-
	OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction	-	-	-	-	-	-	
	Shifting lever outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
		Rear derailleur side	OT-RS900	OT-RS900	OT-RS900	OT-RS900	OT-SP41	OT-SP41
	Shifting lever cable	Polymer-coated cable	-	-	-	-	-	-
OPTISLIC K		✓	✓	✓	✓	✓	✓	
SIL-TEC		-	-	-	-	-	-	
Stainless		-	-	-	-	-	-	
Steel		-	-	-	-	-	-	
Included		✓	✓	✓	✓	✓	✓	
Pre assembled	✓	✓	✓	✓	✓	✓		
Brake lever	Lever size (Finger)	-	-	-	-	-	-	
	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-J-SSR SM-BH90-JK-SSR	SM-BH90-J-SSR SM-BH90-JK-SSR	
	Hose joint	Straight	Straight	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	
		2	-	-	-	-	-	
	Recommended brake caliper	BR-R7070	BR-R7070	BR-R7070	BR-R7070	BR-4770	BR-4770	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral					
	Reach adjust	Tool less	-	-	-	-	-	
		Tool	✓	✓	✓	✓	✓	
	Funnel bleeding	✓	✓	✓	✓	✓	✓	
Free stroke adjust	-	-	-	-	-	-		
SERVO WAVE	-	-	-	-	-	-		
Clamp band	Open clamp	-	-	-	-	-	-	
	I-SPEC	-	-	-	-	-	-	
	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						
	Finish	-	-	-	-	-	-	
Brake lever	Material	Aluminium	Aluminium	Aluminium	Aluminium	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Shifter lever body	Main	-	-	-	-	-	-	
	Release	Resin & Steel						
Master cylinder	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Clamp band	Steel	Steel	Steel	Steel	Steel	Steel		
Average weight (g)	610 (/pair)	610 (/pair)	619 (/pair)	619 (/pair)	-	-		
Note	-	-	For small hand.	For small hand.	-	-		

# Shifting/Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-4725-R	ST-4725-L	ST-R5685-R	ST-R5685-L	ST-R5405-R	ST-R5405-L	
Color	1	Series color	Series color	Series color	Series color	Dark Gray	Dark Gray	
	2	-	-	-	-	-	-	
Bracket cover color	1	Standard	Standard	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds	-	2	-	2	-	2	
	Rear speeds	10	-	11	-	10	10	
	2/3 mode converter	-	-	-	-	-	-	
	Max. multiple shifts (Main lever/rear)	2	-	2	-	2	-	
	Compatible rear derailleur type	Road 10-speed	-	Road 11-speed	-	Road 10-speed	-	
	I-SPEC compatible	-	-	-	-	-	-	
	Shifting lever position adjust	-	-	-	-	-	-	
	Release function	MULTI RELEASE	-	-	-	-	-	-
		INSTANT RELEASE	-	-	-	-	-	-
		2-WAY RELEASE	-	-	-	-	-	-
	OPTICAL GEAR DISPLAY	With	-	-	-	-	-	-
		With (removable)	-	-	-	-	-	-
		Without	-	-	-	-	-	-
	Multi-Bearing construction	-	-	-	-	-	-	
	Shifting lever outer casing	Lever side	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Rear derailleur side		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
Shifting lever cable	Polymer-coated cable	-	-	✓	✓	-	-	
	OPTISLIC K	✓	✓	-	-	✓	✓	
	SIL-TEC	-	-	-	-	-	-	
	Stainless	-	-	-	-	-	-	
	Steel	-	-	-	-	-	-	
	Included	✓	✓	✓	✓	✓	✓	
Pre assembled	✓	✓	✓	✓	✓	✓		
Brake lever	Lever size (Finger)	-	-	-	-	-	-	
	Brake hose (Kit)	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	SM-BH59-J-SS	SM-BH59-J-SS	
	Hose joint	Straight	Straight	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	
		2	-	-	White	White	-	
	Recommended brake caliper	BR-4770	BR-4770	BR-R5785	BR-R5785	BR-R5405	BR-R5405	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	
	Reach adjust	Tool less	-	-	-	-	-	
		Tool	✓	✓	✓	✓	✓	
	Funnel bleeding	✓	✓	✓	✓	✓	✓	
Free stroke adjust	-	-	✓	✓	-	-		
SERVO WAVE	-	-	✓	✓	-	-		
Clamp band	Open clamp	-	-	-	-	-		
	I-SPEC	-	-	-	-	-		
	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	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	-	-	Painted	Painted	Painted	Painted	
Brake lever	Material	Aluminum	Aluminum	Engineering Composite	Engineering Composite	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Shifter lever body	Main	-	-	-	-	-		
	Release	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	
Master cylinder	Material	-	-	-	-	-		
	Finish	-	-	-	-	-		
Clamp band		Steel	Steel	Steel	Steel	Steel	Steel	
Average weight (g)		-	-	649 (/pair)	649 (/pair)	-	-	
Note		For small hand.	For small hand.					

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

# Shifting Lever

Series		DURA-ACE	SHIMANO	DURA-ACE	SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO TIAGRA
Model no.		SL-BSR1	SL-R5700	SL-7900	SL-4700	SL-4703	SL-4603
Color	1	Series color	Black	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		Bar end Shifter	RAPIDFIRE PLUS	Down Tube Shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2	2	2/3	2	3	3
Rear speeds		11	11	10	10	-	-
Compatible rear derailleur type		ROAD 11-speed	ROAD 11-speed	ROAD 10-speed	RD-4700	RD-4700	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		-	✓	-	✓	✓	✓
Max. multiple shifts (Main lever/rear)		-	4	-	4	-	-
Release function	MULTI RELEASE	-	*✓ (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	2	2
Shifting lever bracket	Material	-	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	-	Painted	-	Painted	Painted	Painted
Main lever body	Material	Aluminum	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Coated	Painted	Clear Coated	Painted	Painted	Painted
Release lever body	Material	-	GFRP & Steel	-	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	SIL-TEC	SIL-TEC	SIL-TEC	-	-	-
Recommended Shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		153 (/pair)	210 (/pair)	63 (/pair)	-	-	-
Note			* Pull: single Push: double				

Series		SHIMANO	DURA-ACE	SHIMANO SORA	SHIMANO SORA	SHIMANO SORA	SHIMANO
Model no.		SL-R460	SL-7700	SL-R3000-R	SL-R3000-L	SL-R3030-L	SL-R350-R
Color	1	Black	Series color	Series color	Series color	Series color	Black
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	Down Tube Shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2	2/3	-	2	3	-
Rear speeds		10	9	9	-	-	9
Compatible rear derailleur type		ROAD 10-speed	ROAD 9-speed	RD-R3000	FD-R3000	FD-R3030	ROAD 9-speed
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		✓	-	✓	✓	✓	✓
Max. multiple shifts (Main lever/rear)		4	-	3	-	-	3
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	✓ (right side)	-	-	-	-	-
	2-WAY RELEASE	✓	-	✓	✓	✓	✓
OPTICAL GEAR DISPLAY	With	✓	-	✓	✓	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	-	✓	-	-	-	-
Multi-Bearing construction		R:2 L:2	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	-	Painted	Painted	Painted	Painted
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Clear Coated	Painted	Painted	Painted	Painted
Release lever body	Material	Resin & Steel	-	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	SUS	SUS	SUS	Stainless steel
	Finish	-	-	OPTISLICK	OPTISLICK	OPTISLICK	-
Recommended Shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average weight (g)		-	-	-	-	-	-
Note		SHIMANO logo					SHIMANO logo

# Shifting Lever

Series		SHIMANO	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO	SHIMANO A050
Model no.		SL-R353	SL-R2000-R	SL-R2000-L	SL-R2030-L	SL-R400	SL-A050-7R
Color	1	Black	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Down Tube Shifter	Handle Bar Mount Shifter
Front speeds		3	-	2	3	2/3	-
Rear speeds		-	8	-	-	8	7
Compatible rear derailleur type		-	ROAD 8-speed	-	-	ROAD 8-speed	ROAD 8-speed
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	-	-
Max. multiple shifts (Main lever/rear)		-	3	-	-	-	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	✓	-	-
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	-	-
	With (removable)	-	-	-	-	-	-
	Without	-	-	-	-	✓	✓
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	Steel
	Finish	Painted	Painted	Painted	Painted	-	Zinc plated
Main lever body	Material	Aluminum	Resin & Steel	Resin & Steel	Resin & Steel	Aluminum	Resin
	Finish	Painted	-	-	-	Painted	-
Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	-	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Steel	Steel	Steel	Stainless steel	Steel
	Finish	-	OPTISLICK	OPTISLICK	OPTISLICK	-	Standard
Recommended Shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40
Average weight (g)		-	-	-	-	-	-
Note		SHIMANO logo					

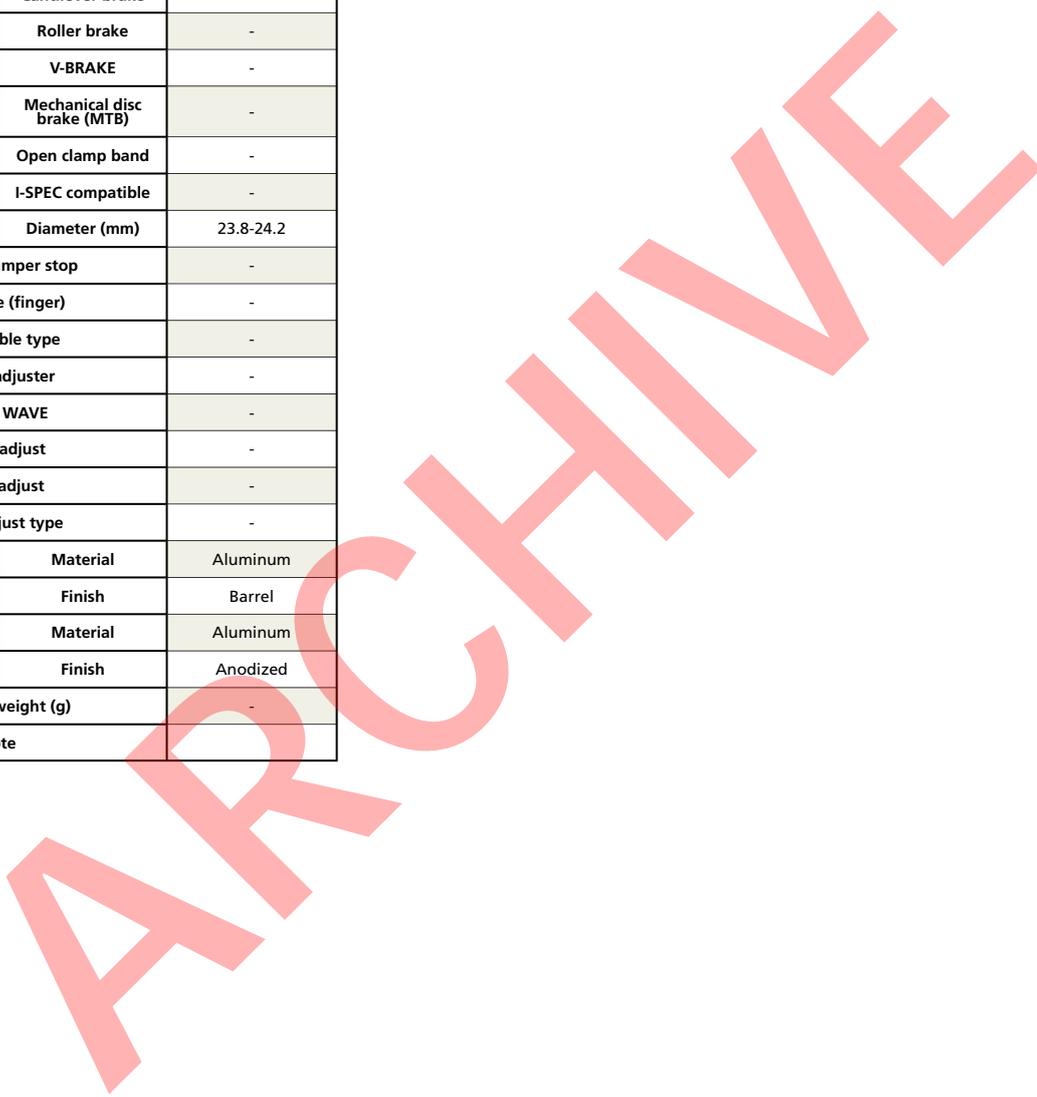
Series		SHIMANO A050	SHIMANO	SHIMANO
Model no.		SL-A050-LN	SL-SY20A-7	SL-SY20A-6
Color	1	Series color	Series color	Series color
	2	-	-	-
Shifter type		Handle Bar Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter
Front speeds		2 (Friction)	2 (Friction)	2 (Friction)
Rear speeds		-	7	6
Compatible rear derailleur type		-	ROAD 8-speed	ROAD 6-speed
Shifting lever position adjust		-	-	-
Shifting lever cable adjust		-	-	-
Max. multiple shifts (Main lever/rear)		-	-	-
Release function	MULTI RELEASE	-	-	-
	INSTANT RELEASE	-	-	-
	2-WAY RELEASE	-	-	-
OPTICAL GEAR DISPLAY	With	-	-	-
	With (removable)	-	-	-
	Without	✓	✓	✓
Multi-Bearing construction		-	-	-
Shifting lever bracket	Material	Steel	Steel	Steel
	Finish	Zinc plated	Zinc plated	Zinc plated
Main lever body	Material	Resin	Resin	Resin
	Finish	-	-	-
Release lever body	Material	Resin	Resin	Resin
	Finish	-	-	-
Shifting lever cable	Material	Steel	Steel	Steel
	Finish	Standard	Standard	Standard
Recommended Shifting lever outer casing		OT-SIS40	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

Series		DURA-ACE	SHIMANO TIAGRA	SHIMANO SORA	SHIMANO CLARIS	SHIMANO	SHIMANO
Model no.		BL-TT79	BL-4700	BL-R3000	BL-R2000	BL-R780	BL-R550
Color	1	Black	Series color	Series color	Series color	Silver	Silver
	2	-	-	-	-	Black	Black
	3	-	-	-	-	-	-
Compatible brake type	V-BRAKE	-	✓	✓	✓	✓	-
	Mechanical disc brake (Road)	✓	✓	✓	✓	✓	✓
	Caliper (NEW SUPER SLR)	✓	✓	✓	✓	✓	-
	Caliper (super SLR)	-	-	-	-	-	✓
	Cantilever brake	✓	✓	✓	✓	✓	✓
	Roller brake	-	-	-	-	-	-
Recommended POWER MODULATOR	V-BRAKE	-	-	-	-	-	-
	Mechanical disc brake (MTB)	-	-	-	-	-	-
Clamp band	Open clamp band	-	-	-	-	-	-
	I-SPEC compatible	-	-	-	-	-	-
	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 compatible	-
	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		



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

## Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO
Model no.		BL-RS600
Brake type		Hydraulic disc brake
Lever size (finger)		3
Color	1	Black
	2	-
	3	-
Brake hose (Kit)		SM-BH59-JK-SS
Hose joint		Straight
Brake hose color (Kit)	1	Black
	2	-
Recommended brake caliper		BR-RS405
Oil		SHIMANO Mineral
Funnel bleeding		✓
Reach adjust	Toolless	-
	Tool	✓
Free stroke adjust		-
SERVO WAVE		-
Clamp band	Open clamp	✓
	I-SPEC B	-
	I-SPEC II	✓
Clamp bolt	Material	Stainless steel
	Finish	-
Brake lever	Material	Aluminum
	Finish	Anodized
Master cylinder	Material	Aluminum
	Finish	Painted
Note		

ARCHIVE

# Brake (Caliper Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Model no.		BR-R9100	BR-R9110-F	BR-R9110-R	BR-R9110-RS	BR-R8000	BR-R8010-F
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Brake type		SLR EV Dual Pivot	Direct mount type	Direct mount type	Direct mount type	SLR EV Dual Pivot	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	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Material	Aluminum	-	-	-	Aluminum	-
	Finish	Anodized	-	-	-	Anodized	-
Quick release lever	Material	Resin	Resin	-	Resin	Resin	Resin
	Finish	Painted	Painted	-	Painted	-	-
Titanium cable fixing bolt		✓	✓	✓	✓	-	-
Titanium pivot bolt		✓	✓ (fixing bolt)	✓ (fixing bolt)	✓ (fixing bolt)	-	-
Average weight (g)		326 (/pair)	150 (/pc)	139 (/pc)	148 (/pc)	182 (Front) 178 (Rear)	174 (/pc)
Note				Need inline cable adjuster (SM-CB90) for cable adjusting and quick release feature.			

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

# Brake (Caliper Brake)

Series		SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO 105	
Model no.		BR-R8010-R	BR-R8010-R5	BR-6800	BR-6810-F	BR-6810-R5	BR-R7000	
Color	1	Series color	Series color	Series color	Series color	Series color	Silky black	
	2	-	-	-	-	-	Spark silver	
Brake type		Direct mount type	Direct mount type	SLR EV Dual Pivot	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	R55C4 Carbon R55C4-A Carbon	R55C4 Carbon R55C4-A Carbon	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	25C	28C	28C	28C	
Rim width (mm)		20.8 - 28	20.8 - 28	*19 - 28	*19 - 28	*19 - 28	20.8 - 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	-	-	Aluminum	
	Finish	-	-	Anodized	-	-	Anodized	
Quick release lever	Material	-	Resin	Aluminum	Aluminum	Aluminum	Resin	
	Finish	-	-	Painted	Painted	Painted	-	
Titanium cable fixing bolt		-	-	-	-	-	-	
Titanium pivot bolt		-	-	-	-	-	-	
Average weight (g)		160 (/pc)	172 (/pc)	335 (/pair)	173 (/pc)	168 (/pc)	379 (/pair)	
Note		Need inline cable adjuster (SM-CB90) for cable adjusting and quick release feature.		Maximum tire size: 25 mm Rim width: 19-26 mm/19-28 mm (R55C4-A Carbon)	Maximum tire size: 28 mm Rim width: 19-26 mm/19-28 mm (R55C4-A Carbon)	Maximum tire size: 28 mm Rim width: 19-26 mm/19-28 mm (R55C4-A Carbon)	-	

# Brake (Caliper Brake)

Series		SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO TIAGRA	SHIMANO SORA	SHIMANO CLARIS	
Model no.		BR-R7010-F	BR-R7010-R	BR-R7010-RS	BR-4700	BR-R3000	BR-R2000	
Color	1	Silky black	Silky black	Silky black	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Brake type		Direct mount type	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	
	Finish	-	-	-	Anodized	Anodized	Anodized	
Quick release lever	Material	Resin	-	Resin	Resin	Resin	Resin	
	Finish	-	-	-	Painted	-	-	
Titanium cable fixing bolt		-	-	-	-	-	-	
Titanium pivot bolt		-	-	-	-	-	-	
Average weight (g)		174 (/pc)	173 (/pc)	174 (/pc)	-	-	-	
Note		-	Need Inline cable adjuster (SM-CB90) for cable adjusting and quick release feature.	-	-	-	-	

# Brake (Caliper Brake)

Series		SHIMANO	SHIMANO	
Model no.		BR-R561	BR-R451	
Color	1	Silver	Black	
	2	Black	Silver	
Brake 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 bolt		-	-	
Titanium pivot bolt		-	-	
Average weight (g)		-	-	
Note		Maximum tire size: 28 mm	Quick release lever wider open Maximum tire size: 32 mm	

# Brake (Hydraulic Disc Brake)

Series		DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO 105	SHIMANO 105
Model no.		BR-R9170-F	BR-R9170-R	BR-R8070-F	BR-R8070-R	BR-R7070-F	BR-R7070-R
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Color	1	Series color	Series color	Series color	Series color	Silky black	Silky black
	2	-	-	-	-	Spark silver	Spark silver
	3	-	-	-	-	-	-
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	-	-	-	-	-	-
ICE TECHNOLOGIES pad compatible caliper		✓	✓	✓	✓	✓	✓
Brake Pad	Standard 1	K02Ti Resin K03Ti Resin	K02Ti Resin K03Ti Resin	K02S Resin K03S Resin	K02S Resin K03S Resin	K02S Resin K03S Resin	K02S Resin K03S Resin
	Standard 2	L02A Resin L03A Resin	L02A Resin L03A Resin	L02A Resin L03A Resin	L02A Resin L03A Resin	L02A Resin L03A Resin	L02A Resin L03A Resin
	Option 1	K04Ti Metal	K04Ti Metal	K04S Metal	K04S Metal	K04S Metal	K04S Metal
	Option 2	L04C Metal	L04C Metal	L04C Metal	L04C Metal	L04C Metal	L04C Metal
Fixing bolt 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-R9180 ST-R9170 ST-R9120	ST-R9180 ST-R9170 ST-R9120	ST-R8070 ST-R8020	ST-R8070 ST-R8020	ST-R7020 ST-R7025	ST-R7020 ST-R7025
Recommended disc brake rotor		SM-RT900	SM-RT900	SM-RT800	SM-RT800	SM-RT70	SM-RT70
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		Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodizing	Anodizing	Anodizing	Anodizing	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Tool size	4 mm	4 mm	4 mm	4 mm	4 mm	4 mm
	Anti loosen method	Bolt fix pin, snap ring	Bolt fix pin	Bolt fix pin, snap ring	Bolt fix pin	Bolt fix pin, snap ring	Bolt fix pin
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		133 (/pc)	123 (/pc)	148 (/pc)	138 (/pc)	147 (/pc)	138 (/pc)
Note						-	-

# Brake (Hydraulic Disc Brake)

Series		SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-4770-F	BR-4770-R	BR-RS785	BR-RS405-F	BR-RS405-R
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Color	1	Series color	Series color	Series color (ULTEGRA)	Dark Gray	Dark Gray
	2	-	-	-	-	-
	3	-	-	-	-	-
Brake hose (Kit)		SM-BH90-JK-SSR	SM-BH90-JK-SSR	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS	SM-BH59-J-SS SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight	Straight	Straight
Brake hose color (Kit)	1	Black	Black	Black	Black	Black
	2	-	-	White	-	-
ICE TECHNOLOGIES pad compatible caliper		-	-	✓	✓	✓
Brake Pad	Standard 1	K03S Resin	K03S Resin	J02A Resin J03A Resin	K02S Resin K03S Resin	K02S Resin K03S Resin
	Standard 2	K04S Metal	K04S Metal	J04C Metal	-	-
	Option 1	L03A-R	L03A-R	G02A Resin G03A Resin	L02A Resin L03A Resin	L02A Resin L03A Resin
	Option 2	-	-	G03S Metal	-	-
Fixing bolt spec for rear mount	10 mm mount	-	✓	-	-	✓
	15 mm mount	-	✓	-	-	✓
	20 mm mount	-	✓	-	-	✓
	25 mm mount	-	✓	-	-	✓
	30 mm mount	-	✓	-	-	✓
	35 mm mount	-	✓	-	-	✓
	15.2 mm	-	-	-	-	-
	18.7 mm	-	-	✓	-	-
Recommended brake lever		ST-4720 ST-4725	ST-4720 ST-4725	ST-R8070	ST-RS405 BL-RS600	ST-RS405 BL-RS600
Recommended disc brake rotor		SM-RT64	SM-RT64	SM-RT99	SM-RT70	SM-RT70
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓
Mount type		Flat mount	Flat mount	Post-mount	Flat mount	Flat mount
Piston		2	2	2	2	2
Piston material		Resin	Resin	Ceramic	Resin	Resin
Caliper	MONO-BODY	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel	Steel	Steel
	Tool size	4 mm	4 mm	5 mm	4 mm	4 mm
	Anti loosen method	Bolt fix pin, snap ring	Bolt fix pin	Snap ring	Bolt fix pin, snap ring	Bolt fix pin
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average weight (g)		-	-	271 (/pair)	-	-
Note		-	-	-	-	-

# Brake (Mechanical Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		BR-R317	BR-RS305-F	BR-RS305-R
Brake type		Mechanical disc brake	Mechanical disc brake	Mechanical disc brake
Color	1	Black	Black	Black
	2	-	-	-
Compatibility		NEW SUPER SLR	NEW SUPER SLR	NEW SUPER SLR
ICE TECHNOLOGIES pad compatible caliper		-	✓	✓
Pad	Standard	G03S Resin	K03S Resin	K03S Resin
	Option 1	-	L03A Resin	L03A Resin
	Option 2	-	-	-
	Option 3	-	-	-
Fixing bolt 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 mount	Flat mount	Flat mount
Piston		1	1	1
Piston material		-	-	-
Caliper	MONO-BODY	-	-	-
	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Caliper fixing bolt	Material	Steel	Steel	Steel
	Tool size	5 mm	4 mm	4 mm
	Anti loosen method	Snap ring	Bolt fix pin/snap ring	Bolt fix pin
Pad mount		Pad axle	Pad axle	Pad axle
Average weight (g)		-	-	-
Note		SHIMANO logo	SHIMANO logo	SHIMANO logo

## 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 bolt length (mm)	16	✓
	25	✓
Fixing bolt	Material	Steel
	Finish	Plated (Black)
	Chamfered bolt	-
Link wire		-
Reinforced link		-
Parallel link		-
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 g
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	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Model no.		RD-R9100-SS	RD-9000-SS	RD-R8000-SS	RD-R8000-GS	RD-6800-SS	RD-6800-GS
Pulley cage		SS	SS	SS	GS	SS	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		HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11
Top-Normal spring type	SHIMANO SHADOW RD	✓	-	✓	✓	-	-
	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	-	✓	-	-	✓	✓
Mount	Direct attachment (Conventional)	✓*	✓	✓*	✓*	✓	✓
	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	G pulley bearing	✓	✓	✓	✓	✓	✓
	T pulley bearing	✓	✓	✓	✓	✓	✓
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	✓	✓	✓	✓	✓	✓
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	CFRP	CFRP	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
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		

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

# Rear Derailleur

Series		SHIMANO ULTEGRA RX	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO TIAGRA
Model no.		RD-RX800-GS	RD-R7000-SS	RD-R7000-GS	RD-5701-SS	RD-5701-GS	RD-4700-SS
Pulley cage		G5	SS	G5	SS	G5	SS
Color	1	Series color	Silky black	Silky black	Black	Black	Series color
	2	-	Spark silver	Spark silver	Silver	Silver	-
Rear speeds		11	11	11	10	10	10
Compatible chain		HG-X11	HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11	HG 10-speed	HG 10-speed	HG-X Chain
Top-Normal spring type	SHIMANO SHADOW RD	-	✓	✓	-	-	-
	SHIMANO SHADOW RD+	✓	-	-	-	-	-
	Double servo	-	-	-	✓	✓	✓
Mount	Direct attachment (Conventional)	✓*	✓*	✓*	✓	✓	✓
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Cable adjuster		✓	✓	✓	✓	✓	✓
Max. front difference		16T	16T	16T	16T	16T (Front double) 22T (Front triple)	16T
Total capacity		39T	35T	39T	34T	40T	33T
Low sprocket	Max.	34T	30T	34T	30T	32T (Front double) 30T (Front triple)	28T
	Min.	28T	25T	28T	25T	27T (Front double) 25T (Front triple)	25T
Top sprocket	Max.	11T	14T	12T	14T	12T (Front double) 14T (Front triple)	14T
	Min.	11T	11T	11T	11T	11T	11T
Fluoric coated link bushings		4	2	2	2	2	2
Pulley	G pulley bearing	✓	-	-	-	-	-
	T pulley bearing	✓	-	-	-	-	-
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	✓	✓	✓	✓	✓	✓
Bracket	Material	Aluminum	-	-	-	-	-
	Finish	Anodized	-	-	-	-	-
B-axle	Hollow axle	✓	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Stainless steel
B-axle 2	Material	-	-	-	-	-	-
	Finish	-	-	-	Plated	Plated	-
	Hollow axle	-	-	-	-	-	-
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	Aluminum	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	Steel	Steel	Steel
	Finish	Painted	-	-	Plated	Plated	Plated
Outer plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Plated
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Plated
Average weight (g)		248	225	232	230	243	-
Note		* w/o bracket spec available	* w/o Bracket spec available	* w/o Bracket spec available			

# Rear Derailleur

Series		SHIMANO TIAGRA	SHIMANO SORA	SHIMANO SORA	SHIMANO	SHIMANO CLARIS	SHIMANO CLARIS
Model no.		RD-4700-GS	RD-R3000-SS	RD-R3000-GS	RD-R350-GS	RD-R2000-SS	RD-R2000-GS
Pulley cage		GS	SS	GS	GS	SS	GS
Color	1	Series color	Series color	Series color	Black	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		10	9	9	9	8	8
Compatible chain		HG-X Chain	HG 9-speed	HG 9-speed	HG 9-speed	HG 8-speed	HG 8-speed
Top-Normal spring type	SHIMANO SHADOW RD	-	-	-	-	-	-
	SHIMANO SHADOW RD+	-	-	-	-	-	-
	Double servo	✓	✓	✓	✓	✓	✓
Mount	Direct attachment (Conventional)	✓	✓	✓	✓	✓	✓
	Riveted adapter (Road type)	-	-	-	-	-	-
	Riveted adapter (BMX-Track type)	-	-	-	-	-	-
Cable adjuster		✓	✓	✓	✓	✓	✓
Max. front difference		16T (Front double) 20T (Front triple)	16T	20T	20T	16T	20T
Total capacity		41T	37T	43T	41T	37T	43T
Low sprocket	Max.	34T (Front double) 32T (Front triple)	32T	34T	32T	32T	34T
	Min.	28T (Front double) 25T (Front triple)	25T	28T	25T	25T	28T
Top sprocket	Max.	12T	14T	14T	14T	13T	13T
	Min.	11T	11T	11T	11T	11T	11T
Fluoroc coated link bushings		2	2	2	2	-	-
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Steel	Steel	Steel	Steel	Steel
	Sunken type pulley bolt	✓	-	-	✓	✓	✓
Bracket	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
B-axle	Hollow axle	-	-	-	-	-	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	Plated	Plated
B-axle 2	Hollow axle	-	-	-	-	-	-
	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Plate body	Material	Aluminum	Resin	Resin	Resin	Resin	Resin
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Painted	Painted	Painted	Painted	Painted
Average weight (g)		-	-	-	-	-	-
Note					SHIMANO logo		

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

# Rear Derailleur

Series		SHIMANO TOURNEY A070
Model no.		RD-A070
Pulley cage		Smart
Color	1	Series color
	2	-
Rear speeds		7
Compatible chain		HG
Top-Normal spring type	SHIMANO SHADOW RD	-
	SHIMANO SHADOW RD+	-
	Double servo	-
Mount	Direct attachment (Conventional)	✓
	Riveted adapter (Road type)	✓
	Riveted adapter (BMX-Track type)	-
Cable adjuster		✓
Max. front difference		20T
Total capacity		37T
Low sprocket	Max.	28T
	Min.	28T
Top sprocket	Max.	14T
	Min.	11T
Fluoric coated link bushings		-
Pulley	G pulley bearing	-
	T pulley bearing	-
	Teeth	11T/13T
	Bolts material	Steel
	Sunken type pulley bolt	-
Bracket	Material	-
	Finish	-
B-axle	Hollow axle	-
	Material	Steel
	Finish	MnPO4
B-axle 2	Hollow axle	-
	Material	-
	Finish	-
Bracket body	Material	Resin
	Finish	-
P-axle	Material	Steel
	Finish	Plated
Plate body	Material	Resin
	Finish	-
Outer link	Material	Steel
	Finish	Painted
Inner link	Material	Steel
	Finish	Zinc plated
Outer plate	Material	Steel
	Finish	Painted
Inner plate	Material	Steel
	Finish	Painted
Average weight (g)		-
Note		

# Front Derailleur

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Model no.		FD-R9100-F	FD-R9100-B	FD-9000-F	FD-9000-B	FD-R8000-F	FD-R8000-B
Color	1	Series color					
	2	-	-	-	-	-	-
Speeds	Front	2	2	2	2	2	2
	Rear	11	11	11	11	11	11
Compatible chain		HG-EV 11-speed/ HG-X11					
Action	TOP SWING	-	-	-	-	-	-
	Down Swing	✓	✓	✓	✓	✓	✓
Mount	Clamp Band (mm)	28.6	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-
		31.8	-	✓	-	✓	✓
		34.9	-	✓	-	✓	✓
	Brazed-On	✓	-	✓	-	✓	-
Cable adjust		✓	✓	-	-	✓	✓
Top-Pull exclusive option		-	-	-	-	-	-
Chain line (mm)		43.5	43.5	43.5	43.5	43.5	43.5
Chain stay 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
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 bolt	Material	Stainless steel					
	Finish	-	-	-	-	-	-
Stroke adjusting screw	Material	Steel	Steel	Aluminum	Aluminum	Stainless steel	Stainless steel
	Finish	Black	Black	Anodized	Anodized	Black	Black
Average weight (g) (Band type: L size, Direct type: w/ bolt)		70	85	66	78	92	106
Note							

# Front Derailleur

Series		SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105
Model no.		FD-6800-F	FD-6800-B	FD-R7000-F	FD-R7000-B	FD-5700-F	FD-5703-F
Color	1	Series color	Series color	Silky black	Silky black	Black	Black
	2	-	-	Spark silver	Spark silver	Silver	Silver
Speeds	Front	2	2	2	2	2	3
	Rear	11	11	11	11	10	10
Compatible chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	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	-	✓	-	✓	-
		34.9	-	✓	-	✓	-
	Brazed-On	✓	-	✓	-	✓	✓
Cable adjust		-	-	✓	✓	-	-
Top-Pull exclusive option		-	-	-	-	-	-
Chain line (mm)		43.5	43.5	43.5	43.5	43.5	45
Chain stay angle (deg.)		61 - 66	61 - 66	61 - 66	61 - 66	61 - 66	63 - 66
Top gear teeth		46-53T	46-53T	46-53T	46-53T	50-56T	50T
Total capacity		16T	16T	16T	16T	16T	20T
Applicable Top-Mid tooth difference		-	-	-	-	-	11T
Angled clamp band design		-	-	-	✓	-	-
Multi-bearing construction		-	-	-	-	-	-
Link bushings		7	7	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
Outer link	Material	Aluminum	Aluminum	GFRP	GFRP	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Aluminum
	Finish	Painted	Painted	Plated	Plated	Painted	Painted
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome plated	Chrome plated	Chrome Plated	Chrome Plated	Chrome plated	Chrome plated
Cable fixing bolt	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	-	-
Average weight (g) (Band type: L size, Direct type: w/ bolt)		89	104	95	111	89	114
Note				-	-		

# Front Derailleur

Series		SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO	SHIMANO
Model no.		FD-4700-F	FD-4700-B	FD-4703-F	FD-4703-B	FD-CX70-F-T	FD-CX70-F-D
Color	1	Series color	Series color	Series color	Series color	Gray	Gray
	2	-	-	-	-	-	-
Speeds	Front	2	2	3	3	2	2
	Rear	10	10	10	10	10	10
Compatible chain		HG-X chain/CN-HG500	HG-X chain/CN-HG500	HG-X chain/CN-HG500	HG-X chain/CN-HG500	HG 10-speed	HG 10-speed
Action	TOP SWING	-	-	-	-	-	-
	Down Swing	✓	✓	✓	✓	✓	✓
Mount	Clamp Band (mm)	28.6	-	✓*	-	✓*	-
		31.8	-	✓	-	✓	-
		34.9	-	✓	-	✓	-
	Brazed-On	✓	-	✓	-	✓	✓
Cable adjust		-	-	-	-	-	-
Top-Pull exclusive option		-	-	-	-	✓	-
Chain line (mm)		43.5	43.5	45	45	43.5	43.5
Chain stay angle (deg.)		61 - 66	61 - 66	63 - 66	63 - 66	63 - 66	63 - 66
Top gear teeth		46-52T	46-52T	50T	50T	46-52T	46-52T
Total capacity		16T	16T	20T	20T	16T	16T
Applicable Top-Mid tooth difference		-	-	11T	11T	-	-
Angled clamp band design		-	-	-	-	-	-
Multi-bearing construction		-	-	-	-	-	-
Link bushings		-	-	-	-	7	7
Front clamp band	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Finish	Painted	Painted	Painted	Painted	-	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
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 bolt	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/ boft)		-	-	-	-	92	87
Note			* 28.6 mm Clamp band: 31.8 mm w/ Adapter		* 28.6 mm Clamp band: 31.8 mm w/ Adapter		

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

# Front Derailleur

Series		SHIMANO SORA	SHIMANO SORA	SHIMANO SORA	SHIMANO SORA	SHIMANO	SHIMANO CLARIS
Model no.		FD-R3000-F	FD-R3000-B	FD-R3030-F	FD-R3030-B	FD-R353-B	FD-R2000-F
Color	1	Series color	Series color	Series color	Series color	Black	Series color
	2	-	-	-	-	-	-
Speeds	Front	2	2	3	3	3	2
	Rear	9	9	9	9	9	8
Compatible chain		-	-	-	-	HG 9-speed	HG 8-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		-	-	-	-	-	-
Top-Pull exclusive option		-	-	-	-	-	-
Chain line (mm)		43.5	43.5	45	45	45	43.5
Chain stay angle (deg.)		61 - 66	61 - 66	63 - 66	63 - 66	63 - 66	61 - 66
Top gear teeth		46-52T	46-52T	50T	50T	50T	46-52T
Total capacity		16T	16T	20T	20T	20T	16T
Applicable Top-Mid tooth difference		-	-	11T	11T	11T	-
Angled clamp band design		✓	✓	✓	✓	-	✓
Multi-bearing construction		-	-	-	-	-	-
Link bushings		-	-	-	-	-	-
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
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	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 bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Ni plated	Ni plated	Ni plated	Ni plated	Ni plated	Ni 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/ bolt)		-	-	-	-	-	-
Note						SHIMANO logo	

# Front Derailleur

Series		SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO A050
Model no.		FD-R2000-B	FD-R2030-F	FD-R2030-B	FD-A070-A	FD-A073	FD-A050
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Speeds	Front	2	3	3	2	3	2 (Friction)
	Rear	8	8	8	7	7	7
Compatible chain		HG 8-speed	HG 8-speed	HG 8-speed	HG	HG	HG
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	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓
		34.9	✓	-	✓	✓	✓
	Brazed-On	-	✓	-	-	-	-
Cable adjust		-	-	-	-	-	-
Top-Pull exclusive option		-	-	-	-	-	-
Chain line (mm)		43.5	45	45	43.5	45	43.5
Chain stay angle (deg.)		61 - 66	63 - 66	63 - 66	61 - 66	63 - 66	61 - 66
Top gear teeth		46-52T	50T	50T	50T	50T	53T
Total capacity		16T	20T	20T	16T	20T	16T
Applicable Top-Mid tooth difference		-	11T	11T	-	11T	16T
Angled clamp band design		✓	✓	✓	✓	✓	-
Multi-bearing construction		-	-	-	-	-	-
Link bushings		-	-	-	-	-	-
Front clamp band	Material	Steel	-	Steel	Steel	Steel	Steel
	Finish	Painted	-	Painted	Painted	Painted	Zinc plated
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Zinc plated
Outer link	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel+Resin
	Finish	Painted	Painted	Painted	Painted	Painted	Zinc plated
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Zinc plated
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome plated	Chrome plated	Chrome plated	Painted	Painted	Chrome plated
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Ni Plated	Ni Plated	Ni Plated	Ni plated	Ni 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/ bolt)		-	-	-	-	-	-
Note							

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

# Crankset

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO 105
Model no.		FC-R9100	FC-R9100-P	FC-R9100-P w/o gears	FC-9000	FC-R8000	FC-R7000
Color	1	Series color	Series color	Series color	Series color	Series color	Silky black
	2	-	-	-	-	-	Spark silver
Rear speeds		11	11	11	11	11	11
Compatible chain		HG-EV 11-speed, HG-X11	HG-EV 11-speed, HG-X11	HG-EV 11-speed, HG-X11	HG-EV 11-speed, HG-X11	HG-EV 11-speed, HG-X11	HG-EV 11-speed, HG-X11
Chain line (mm)		43.5	43.5	43.5	43.5	43.5	43.5
P.C.D. Left / Right (mm)		110	110	110	110	110	110
Spider/Gear arms		4	4	4	4	4	4
Chaining combination		55-42T 54-42T 53-39T 52-36T 50-34T	55-42T (option) 54-42T (option) 53-39T 52-36T 50-34T	-	55-42T 54-42T 53-39T 52-38T 52-36T 50-34T	50-34T 52-36T 53-39T 46-36T	50-34T 52-36T 53-39T
Q-factor		146	146	146	146	146	146
Crank arm length (mm)	160	-	-	-	-	-	✓
	165	✓	-	✓	✓	✓	✓
	167.5	✓	-	✓	✓	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	✓	✓	✓
	175	✓	✓	✓	✓	✓	✓
	177.5	✓	-	✓	✓	-	-
	180	✓	-	✓	✓	-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	✓	✓	✓	✓
2-PIECE CRANKSET		-	-	-	-	-	-
HOLLOWTECH crank arm		✓	✓	✓	✓	✓	✓
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		✓	✓	✓	✓	- (46-36T)	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-R9100	BB-R9100	BB-R9100	BB-R9100	SM-BBR60	SM-BBR60
	Press-fit	SM-BB92-41B	SM-BB92-41B	SM-BB92-41B	SM-BB92-41B	SM-BB72-41B	SM-BB72-41B
Axle length of BB-UN/E5 (mm)	Threaded (normal)	-	-	-	-	-	-
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	Aluminum/CFRP	Aluminum/CFRP	Aluminum/CFRP or GFRP	Aluminum/CFRP or Aluminum (46-36T only)	Aluminum/GFRP
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Stainless steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
Inner ring fixing bolt	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		650 (55-42T) 642 (54-42T) 626 (53-39T) 624 (52-36T) 614 (50-34T)	696 (53-39T) 695 (52-36T) 685 (50-34T)	-	639 (55-42T) 632 (54-42T) 618 (53-39T) 622 (52-38T) 618 (52-36T) 610 (50-34T)	690 (53-39T) 681 (52-36T) 674 (50-34T) 668 (46-36T)	713.4 (50-34T) 742.6 (52-36T) 757.8 (53-39T)
Note			With power meter Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh	With power meter Chemistry: Li-ion Rated voltage: 3.7 V Rated capacity: 0.66 Ah Rated capacity: 2.442 Wh			

# Crankset

Series		SHIMANO	DURA-ACE	SHIMANO 105	SHIMANO 105	SHIMANO	SHIMANO TIAGRA
Model no.		FC-RS510	FC-7710	FC-5750	FC-5703	FC-CX50	FC-4700
Color	1	Black	Series color	Black	Black	Silver	Series color
	2	-	-	-	-	Black	-
Rear speeds		11	-	10	10	10	10
Compatible chain		HG-EV 11-speed, HG-X11	1/2 inch x 1/8 inch 1/2 inch x 3/32 inch	HG 10-speed	HG 10-speed	HG 10-speed	HG-X 10-speed
Chain line (mm)		43.5	42.5	43.5	45	43.5	43.5
P.C.D. Left / Right (mm)		110	144	110	130/74	110	110
Spider/Gear arms		4	5	5	5	5	4
Chaining combination		52-36T 50-34T 46-36T	45T to 55T (1/2 inch x 1/8 inch, 1/2 inch x 3/ 32 inch)	50-34T	50-39-30T	46-36T	52-36T 50-34T 48-34T
Q-factor		150	136.3	146	154.76	150	150
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	✓	✓	✓	-	✓
	167.5	-	✓	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	✓	✓	✓	✓	✓	✓
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	-	-
	Without chain guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		-	-	✓	✓	-	-
2-PIECE CRANKSET		✓	-	-	-	✓	✓
HOLLOWTECH crank arm		-	✓	✓	✓	-	-
OCTALINK		-	✓	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	-	✓	✓	✓	✓
	OCTALINK	-	✓	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-RS500	BB-7710, BB-7700	SM-BB5700	SM-BB5700	BB-RS500	BB-RS500
	Press-fit	BB-RS500-PB	-	SM-BB71-41B	SM-BB71-41B	SM-BB71-41B	BB-RS500-PB
Axle length of BB-UN/E5 (mm)	Threaded (normal)	-	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/Resin	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum/GFRP (52-36T, 50-34T) Aluminum/Resin (48-34T)
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized (52-36T, 50-34T) Anodized and Painted (48-34T)
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	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	-	-	-	Stainless steel	-	-
	Finish	-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		908 (50-34T)	566 (52T, 1/2 inch x 1/8 inch)	716	831	798	-
Note							

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

# Crankset

Series		SHIMANO TIAGRA	SHIMANO	SHIMANO	SHIMANO SORA	SHIMANO SORA	SHIMANO SORA
Model no.		FC-4703	FC-R460	FC-RS400	FC-R3030	FC-R3030-CG	FC-R3000
Color	1	Series color	Black	Black	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		10	10	10	9	9	9
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed
Chain line (mm)		45	43.5	43.5	45	45	43.5
P.C.D. Left / Right (mm)		110/74	110	110	110/74	130/74	110
Spider/Gear arms		4	5	5	4	5	4
Chaining combination		50-39-30T	48-34T 46-34T	50-34T	50-39-30T	50-39-30T	50-34T
Q-factor		158.8	149.9	150.3	158.8	158.8	150
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	✓	-	✓	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	✓	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
Optional chain guard	With chain guard	-	-	-	-	✓	-
	Without chain guard	✓	✓	✓	✓	-	✓
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		✓	✓	✓	✓	✓	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-RS500	BB-RS500	BB-RS500	BB-RS500	BB-RS500	BB-RS500
	Press-fit	BB-RS500-PB	SM-BB71-41B	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB	BB-RS500-PB
Axle length of BB-UN/E5 (mm)	Threaded (normal)	-	-	-	-	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓	✓	✓
	70	✓	✓	✓	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	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/GFRP	Aluminum	Aluminum	Aluminum/Resin	Aluminum/Resin	Aluminum/Resin
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	Aluminum	-	-	Steel	Steel	-
	Finish	Anodized	-	-	Painted	Painted	-
Inner ring	Material	Steel	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Plated	Anodized	Anodized	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 bolt	Material	Stainless steel	-	-	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		-	-	-	-	-	-
Note			SHIMANO logo			w/ Chain guard spec.	

# Crankset

Series		SHIMANO SORA	SHIMANO	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS
Model no.		FC-R3000-CG	FC-R345	FC-R2030	FC-R2030-CG	FC-R2000	FC-R2000-CG
Color	1	Series color	Silver	Series color	Series color	Series color	Series color
	2	-	Black	-	-	-	-
Rear speeds		9	9	8	8	8	8
Compatible chain		HG 9-speed	HG 9-speed	HG 8-speed	HG 8-speed	HG 8-speed	HG 8-speed
Chain line (mm)		43.5	43.5	45	45	43.5	43.5
P.C.D. Left / Right (mm)		110	110	110/74	110/74	110	110
Spider/Gear arms		5	5	4	4	4	4
Chaining combination		50-34T	50-34T	50-39-30T	50-39-30T	50-34T	50-34T
Q-factor		150	152.2	158.8	158.8	150	150
Crank arm length (mm)	160	-	-	-	-	-	-
	165	✓	-	✓	✓	✓	✓
	167.5	-	-	-	-	-	-
	170	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175	✓	✓	✓	✓	✓	✓
	177.5	-	-	-	-	-	-
Optional chain guard	With chain guard	✓	✓	-	✓	-	✓
	Without chain guard	-	✓	✓	-	✓	-
HOLLOWTECH II		-	-	-	-	-	-
2-PIECE CRANKSET		✓	-	✓	✓	✓	✓
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	✓	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	-	✓	✓	✓	✓
	OCTALINK	-	✓	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	BB-R5500	BB-E5300	BB-R5500	BB-R5500	BB-R5500	BB-R5500
	Press-fit	BB-R5500-PB	-	BB-R5500-PB	BB-R5500-PB	BB-R5500-PB	BB-R5500-PB
Axle length of BB-UN/E5 (mm)	Threaded (normal)	-	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	Steel/Resin	Steel/Resin	Steel/Resin	Steel/Resin
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Middle ring	Material	-	-	Steel	Steel	-	-
	Finish	-	-	Painted	Painted	-	-
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		-	-	-	-	-	-
Note		w/ Chain guard spec.					

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

# Crankset

Series		SHIMANO	SHIMANO TOURNEY A070	SHIMANO TOURNEY
Model no.		FC-RS200	FC-A070	FC-A073
Color	1	Black	Series color	Series color
	2	-	-	-
Rear speeds		8	7/8	7/8
Compatible chain		HG 8-speed	HG	HG
Chain line (mm)		43.5	43.5	45
P.C.D. Left / Right (mm)		110	Riveted	Riveted
Spider/Gear arms		5	5	5
Chaining combination		50-34T 46-34T	50-34T	50-39-30T
Q-factor		153.7	169	171.5
Crank arm length (mm)	160	-	-	-
	165	✓	✓	✓
	167.5	-	-	-
	170	✓	✓	✓
	172.5	-	-	-
	175	✓	-	-
	177.5	-	-	-
Optional chain guard	With chain guard	✓	✓	✓
	Without chain 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	BB-UN300	BB-UN300
	Press-fit	-	-	-
Axle length of BB- UN/ES (mm)	Threaded (normal)	MM110	MM110	LL113
Threaded bottom bracket shell width (mm)	68	✓	✓	✓
	70	✓	✓	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Crank axle	Material	-	-	-
	Finish	-	-	-
Spider arm	Material	-	-	-
	Finish	-	-	-
Spider arm cover	Material	-	-	-
	Finish	-	-	-
Outer ring	Material	Steel	Steel	Steel
	Finish	Painted	Painted	Painted
Middle ring	Material	-	-	Steel
	Finish	-	-	Painted
Inner ring	Material	Steel	Steel	Steel
	Finish	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	-	-
	Finish	-	-	-
Inner ring fixing bolt	Material	-	-	-
	Finish	-	-	-
Crank fixing bolt included		✓	-	-
Average weight (g) (170 mm, w/o bottom bracket)		-	-	-
Note				

## Bottom Bracket (HOLLOWTECH II)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BB-R9100	SM-BB92-41	SM-BB72-41	SM-BBR60	BB-RS500	BB-RS500-P
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	-	✓ (SM-BB92-41B)	✓ (SM-BB72-41B)	-	-	✓ (BB-RS500-PB)
Small ball bearing		✓	✓	✓	✓	-	-
Adapter	Material	Aluminum	Resin	Resin	Aluminum	Aluminum	Resin
	Finish	Anodized	-	-	Anodized	Anodized	-
Average weight (g)		65	54	69	77	92	71
Note							

## Bottom Bracket

Series		DURA-ACE	DURA-ACE	SHIMANO 105	SHIMANO	
Model no.		BB-7700	BB-7710	BB-5500	BB-E551	
Spindle	Hollow pipe	✓	✓	✓	✓	
	OCTALINK	✓	✓	✓	✓	
	Square type	-	-	-	-	
Axle length/shell width (mm)	109.5	68 (BC1.37)	✓	✓	✓ (for double)	-
		70 (M36)	✓	-	✓ (for double)	-
	MM110.0	68 (BC1.37)	-	-	-	-
		70 (M36)	-	-	-	-
	LL113.0	68 (BC1.37)	-	-	-	-
		70 (M36)	-	-	-	-
	113	68 (BC1.37)	-	-	-	✓ (for double)
		70 (M36)	-	-	-	✓ (for double)
	118.5	68 (BC1.37)	-	-	✓ (for triple)	-
		70 (M36)	-	-	✓ (for triple)	-
	121	68 (BC1.37)	-	-	-	✓ (for triple)
	Spindle	Material	Steel	Steel	Steel	Steel
Finish		Plated	Plated	Plated	Plated	
Left hand adapter	Material	Aluminum	Aluminum	Aluminum	Resin	
	Finish	Anodized	Anodized	Anodized	-	
Average weight (g)		173	244	-	-	
Note		-	For track	-	-	

# Cassette Sprocket

Series		DURA-ACE	SHIMANO ULTEGRA	SHIMANO
Model no.		CS-R9100	CS-R8000	CS-HG800-11
Type		HG-EV	HG-EV	HG-EV
Speeds		11	11	11
Compatible chain		HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11
Combination name (Group name)		11-25T 11-28T 11-30T 12-25T 12-28T	11-25T 11-28T 11-30T 12-25T 14-28T 11-32T	11-34T
Combination * Titanium gear	Combination 1	11-12-13-14-15-16-17*-19*-21*-23*-25*T	11-12-13-14-15-16-17-19-21-23-25T	11-13-15-17-19-21-23-25-27-30-34T
	Combination 2	11-12-13-14-15-17-19*-21*-23*-25*-28*T	11-12-13-14-15-17-19-21-23-25-28T	-
	Combination 3	11-12-13-14-15-17-19*-21*-24*-27*-30*T	11-12-13-14-15-17-19-21-24-27-30T	-
	Combination 4	12-13-14-15-16-17-18*-19*-21*-23*-25*T	12-13-14-15-16-17-18-19-21-23-25T	-
	Combination 5	12-13-14-15-16-17-19*-21*-23*-25*-28*T	14-15-16-17-18-19-20-21-23-25-28T	-
	Combination 6	-	11-12-13-14-16-18-20-22-25-28-32T	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	2	1	2
	Material	Carbon	Carbon/Aluminum	Aluminum
	Finish	-	Anodized	Anodized
Titanium gear	Finish	Titanium	-	-
Aluminum gear	Finish	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Average weight (g)		175 (11-25T) 193 (11-28T) 211 (11-30T) 189 (12-25T) 205 (12-28T)	232 (11-25T) 251 (11-28T) 269 (11-30T) 243 (12-25T) 300 (14-28T) 292 (11-32T)	335
Note		* Titanium gear	-	-

Series		SHIMANO 105	SHIMANO 105	SHIMANO ULTEGRA
Model no.		CS-R7000	CS-HG700-11	CS-6700
Type		HG-EV	HG-EV	HG
Speeds		11	11	10
Compatible chain		HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11	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	Combination 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
	Combination 2	11-12-13-14-15-17-19-21-24-27-30T	-	11-12-13-14-15-17-19-21-24-28T
	Combination 3	11-12-13-14-16-18-20-22-25-28-32T	-	12-13-14-15-16-17-19-21-23-25T
	Combination 4	12-13-14-15-16-17-18-19-21-23-25T	-	12-13-14-15-17-19-21-24-27-30T
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	1	1	1
	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Titanium gear	Finish	-	-	-
Aluminum gear	Finish	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel	Aluminum
	Finish	Nickel plated	Nickel plated	Anodized
Average weight (g)		284 (11-28T) 304 (11-30T) 320 (11-32T) 269 (12-25T)	379	229 (11-25T) 242 (11-28T) 238 (11-25T) - (12-30T)
Note		-	-	-

# Cassette Sprocket

Series		SHIMANO 105	SHIMANO	SHIMANO SORA
Model no.		CS-5700	CS-HG500-10	CS-HG50-9
Type		HG	HG	HG
Speeds		10	10	9
Compatible chain		HG 10-speed	HG-X 10-speed/HG 10-speed/CN-HG500	HG 9-speed
Combination name (Group name)		11-25T 11-28T	11-25T 12-28T 11-32T 11-34T	11-30T (bQ) 12-25T 13-25T 14-25T
Combination * Titanium gear	Combination 1	11-12-13-14-15-17-19-21-23-25T	11-12-13-14-15-17-19-21-23-25T	11-12-14-16-18-20-23-26-30T (bQ)
	Combination 2	11-12-13-14-15-17-19-21-24-28T	12-13-14-15-17-19-21-23-25-28T	12-13-14-15-17-19-21-23-25T
	Combination 3	-	11-12-14-16-18-20-22-25-28-32T	13-14-15-16-17-19-21-23-25T
	Combination 4	-	11-13-15-17-19-21-23-26-30-34T	14-15-16-17-18-19-21-23-25T
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	1	-	-
	Material	Aluminum	-	-
	Finish	Anodized	-	-
Titanium gear	Finish	-	-	-
Aluminum gear	Finish	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel	Steel
	Finish	Nickel plated	Nickel plated	Nickel plated
Average weight (g)		245 (11-25T) 255 (11-28T)	-	-
Note		-	-	-

Series		SHIMANO SORA	SHIMANO CLARIS	SHIMANO TOURNEY A070
Model no.		CS-HG400-9	CS-HG50-8	CS-HG41-7
Type		HG	HG	HG
Speeds		9	8	7
Compatible chain		HG 9-speed	CN-HG71	IG/HG
Combination name (Group name)		11-25T (G)	11-28T (bf) 11-30T (an) 11-32T (aw) 11-34T (Ca) 12-23T (U) 12-25T (W) 13-26T (V)	11-28T (ac)
Combination * Titanium gear	Combination 1	11-12-13-15-17-19-21-23-25T (G)	11-13-15-17-19-21-24-28T (bf)	11-13-15-18-21-24-28T (ac)
	Combination 2	-	11-13-15-17-20-23-26-30T (an)	-
	Combination 3	-	11-13-15-18-21-24-28-32T (aw)	-
	Combination 4	-	11-13-15-18-21-24-28-34T (Ca)	-
	Combination 5	-	12-13-14-15-17-19-21-23T (U)	-
	Combination 6	-	12-13-15-17-19-21-23-25T (W)	-
	Combination 7	-	13-14-15-17-19-21-23-26T (V)	-
Spider arm	QTY (pcs)	-	-	-
	Material	-	-	-
	Finish	-	-	-
Titanium gear	Finish	-	-	-
Aluminum gear	Finish	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Steel	Steel	Steel
	Finish	Nickel plated	Nickel plated	Phosphate coated
Average weight (g)		-	-	-
Note		NEW gear combination	-	-

# Cassette Sprocket

Series		SHIMANO TOURNEY A070
Model no.		CS-HG20-7
Type		HG
Speeds		7
Compatible chain		IG/HG
Combination name (Group name)		12-28T (E)
Combination * Titanium gear	Combination 1	12-14-16-18-21-24-28T (E)
	Combination 2	-
	Combination 3	-
	Combination 4	-
	Combination 5	-
	Combination 6	-
	Combination 7	-
Spider arm	QTY (pcs)	-
	Material	-
	Finish	-
Titanium gear	Finish	-
Aluminum gear	Finish	-
Steel gear	Finish	Brown&Black
Lock ring	Material	Steel
	Finish	Phosphate coated
Average weight (g)		-
Note		-

ARCHIVE

# Front Hub (Rim/Disc Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO 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	129 mm	-	-	-	-	-	-
	133 mm	✓	-	-	✓	✓	-
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 Left/Right (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
Disc mount	CENTER LOCK	-	-	-	-	-	✓
	External serration disc brake rotor lock ring	-	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-	-
	6-bolt	-	-	-	-	-	-
	140 mm disc brake rotor compatible	-	-	-	-	-	✓
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 rin), 203 (front)	313 (rear LF w/ lock rin), 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	-	-	-	-

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

# Front Hub (Rim/Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO TOURNEY A070
Model no.		HB-RS770	HB-RS400	HB-RS470	HB-RS300	HB-RM40
Color	1 Hub Shell	Black/Silver	Black	Black	Silver	Black
	1 Quick release	-	Black	-	Silver	Black
	2 Hub Shell	-	Silver	-	Black	Silver
	2 Quick release	-	Black	-	Black	Black
Brake type		CENTER LOCK disc brake	Rim brake	CENTER LOCK disc brake	Rim brake	Rim brake
O.L.D. (mm)		100	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
Quick release skewer length	129 mm	-	-	-	✓	✓
	133 mm	-	✓	-	✓	✓
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	71.6
Offset (mm)		6	0	6.3	0	0
P.C.D. Left/Right (mm)		44	38	44	38	38
Flange diameter Left/Right (mm)		52.8	48.4	52.8	48.4	46
Seal		Labyrinth & Contact	Contact	Contact	Contact	-
Internal grease sleeve		-	✓	✓	-	-
Digital adjustment system		-	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-
	Cup	CBN	Polish	Polish	-	-
	Cone	CBN	CBN	CBN, Polish	-	-
Disc mount	CENTER LOCK	✓	-	✓	-	-
	External serration disc brake rotor lock ring	-	-	-	-	-
	CENTER LOCK mount cover option	-	-	-	-	-
	6-bolt	-	-	-	-	-
	140 mm disc brake rotor compatible	✓	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Steel	Aluminum	Steel	Steel
	Finish	Anodized	-	-	-	-
Quick release lever	Material	-	Aluminum	-	Aluminum	Steel
	Finish	-	Painted	-	Painted	Plated
Quick release housing	Material	-	Aluminum	-	Steel	Steel
	Finish	-	Painted	-	Painted	Plated
Quick release nut	Material	-	Resin	-	Resin	Resin
	Finish	-	Black	-	Black	Black
Radial lacing		-	✓	✓	✓	-
Average weight (g) (w/o axle and lock ring)		125	-	-	-	-
Note		-	-	-	-	-

# FREEHUB (Rim/Disc Brake)

Series		DURA-ACE	SHIMANO 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	12mm E-THRU	12mm E-THRU	Quick release	
Quick release skewer length	161 mm	-	-	-	-	-	-	
	163 mm	✓	✓	✓	-	-	✓	
	166 mm	-	-	-	-	-	-	
	168 mm	✓	✓	✓	-	-	✓	
	170 mm	-	-	-	-	-	-	
	173 mm	-	-	-	-	-	-	
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	
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 and lock ring)		247	330	368	361	302	-	
Note		* Can be used for 10-speed with an additional spacer ** Aero spoke hole available *** Flange Distance:56.5, Dish:9.95(only for 28H), **** Super Finishing.		* Can be used for 10-speed with an additional spacer	* Can be used for 10-speed with an additional spacer	* Can be used for 10-speed with an additional spacer.	* Can be used for 10-speed with an additional spacer. For disc brake/CENTER LOCK mount	* Can be used for 10-speed with an additional spacer

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

# FREEHUB (Rim/Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO TOURNEY A070	SHIMANO	SHIMANO
Model no.		FH-RS470	FH-RS300	FH-RM30-7-QR	FH-TY500-7-QR	FH-TY500-7-NT
Color	1 Hub Shell	Black	Silver	Silver	Black	Black
	1 Quick release	-	Silver	Silver	-	-
	2 Hub Shell	-	Black	-	-	-
	2 Quick release	-	Black	-	-	-
Brake type		CENTER LOCK disc brake	Rim brake	Rim brake	Rim brake	Rim brake
Rear speeds		11/10*	8/9/10	7	7	7
O.L.D. (mm)		142	130	130	130	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		12mm E-THRU	Quick release	Quick release	Quick release	Nut
Quick release skewer length	161 mm	-	-	✓	✓	-
	163 mm	-	✓	-	-	-
	166 mm	-	-	-	-	-
	168 mm	-	✓	-	-	-
	170 mm	-	-	-	-	-
	173 mm	-	-	-	-	-
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	59.2	57.4	57.4
Offset (mm)		7.45	8.4	5.5	7.1	7.1
P.C.D. Left/Right (mm)		44/45	45	45	45	45
Flange diameter Left/Right (mm)		52.8/53.8	53.8	53.8	53.8	53.8
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	Steel	Steel	Steel
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum (2 pcs)	Aluminum	Aluminum
	Finish	Anodized	Anodized	Shiny	Painted (Black)	Painted (Black)
Axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-
Quick release lever	Material	-	Aluminum	Steel	Steel	-
	Finish	-	Painted	Plated	Plated	-
	Color	-	Black	Black	Black	-
Quick release housing	Material	-	Steel	Steel	Steel	-
	Finish	-	Painted	Painted	Painted	-
Quick release nut	Material	-	Resin	Resin	Steel + Resin	-
	Finish	-	Black	Black	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Radial Lacing		-	-	-	-	-
Average weight (g) (w/o axle and lock ring)		-	-	-	-	-
Note		* Can be used for 10-speed with an additional spacer			O.L.D.: 135 mm Available (Refer to MTB FREEHUB specification table)	O.L.D.: 135 mm Available (Refer to MTB FREEHUB specification table)

# Wheel (Rim Brake)

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	
Model no.	WH-R9100-C60-CL-F	WH-R9100-C60-CL-R	WH-R9100-C60-TU-F	WH-R9100-C60-TU-R	WH-R9100-C40-CL-F	WH-R9100-C40-CL-R	
Model name	WH-R9100-C60-CL	WH-R9100-C60-CL	WH-R9100-C60-TU	WH-R9100-C60-TU-R	WH-R9100-C40-CL	WH-R9100-C40-CL	
Spec.	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	
Speeds	-	10*/11	-	10*/11	-	10*/11	
O.L.D. (mm) (Front/Rear)	100	130	100	130	100	130	
Wheel Size	622 x 17C	622 x 17C	700C	700C	622 x 15C	622 x 15C	
Rim	Height (mm)	50	50	60	60	35	35
	Width (mm)	22.4	22.4	28	28	20.8	20.8
	Rim joint	Sleeved	Sleeved	-	-	Welded	Welded
	Brazed reinforcement	-	-	-	-	-	-
Spokes	Number	16	21	16	21	16	21
	Straight spoke	✓	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓	✓
Axle	Fixing method	Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
	Quick release skewer length	129 mm	-	-	-	-	-
		133 mm	✓	-	✓	-	✓
		161 mm	-	-	-	-	-
		163 mm	-	✓	-	✓	-
		166 mm	-	-	-	-	-
		168 mm	-	✓	-	✓	-
		170 mm	-	-	-	-	-
	173 mm	-	-	-	-	-	
	Length	108	141	108	141	108	141
Diameter	15	14	15	14	15	14	
Thru Axle (Length x Inner diameter ; mm)	100 x 8	-	-	-	-	-	
	100 x 12	-	-	-	-	-	
	100 x 15	-	-	-	-	-	
	110 x 20	-	-	-	-	-	
	135 x 10	-	-	-	-	-	
	135 x 12	-	-	-	-	-	
	142 x 12	-	-	-	-	-	
150 x 12	-	-	-	-	-		
Bearing	Stainless ball	✓	✓	✓	✓	✓	
	Cup	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	
Disc mount	CENTER LOCK	-	-	-	-	-	
	CENTER LOCK mount cover option	-	-	-	-	-	
	140 mm Disc rotor compatible	-	-	-	-	-	
OPTBAL	-	✓	-	✓	-	✓	
D2 rim	✓	✓	✓	✓	-	-	
OFFSET RIM	-	-	-	-	-	-	
Digital adjustment system	✓	✓	✓	✓	✓	✓	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	-	Contact	-	Contact	-	
Grease holding function	✓	✓	✓	✓	✓	✓	
Requires rim tape	✓	✓	✓	✓	✓	✓	
Tire	Type	Clincher	Clincher	Tubular	Tubular	Clincher	
	Recommended size	23-622 - 32-622	23-622 - 32-622	23-28 inch - 28-28 inch	23-28 inch - 28-28 inch	23-622 - 28-622	
Rim	Material	Carbon+AL	Carbon+AL	Carbon	Carbon	Carbon+AL	
	Finish	Painting	Painting	Painting	Painting	painting	
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)	-	
	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	Aluminum	
	Color	Series color	Series color	Series color	Series color	Series color	
Compatible Spoke protector	-	-	-	-	-	-	
Reflector	JIS/CPSC	CATEYE RR-550-WUW SV	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 SV	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 SV	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)	832	1019	666	830	674	834	
Note	-	* The adapter is needed to use 10-speed cassette sprocket	-	* The adapter is needed to use 10-speed cassette sprocket	-	* The adapter is needed to use 10-speed cassette sprocket	

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

# Wheel (Rim Brake)

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO	SHIMANO	
Model no.	WH-R9100-C40-TU-F	WH-R9100-C40-TU-R	WH-R9100-C24-CL-F	WH-R9100-C24-CL-R	WH-R5700-C30-TL-F	WH-R5700-C30-TL-R	
Model name	WH-R9100-C40-TU	WH-R9100-C40-TU	WH-R9100-C24-CL	WH-R9100-C24-CL	WH-R5700-C30-TL	WH-R5700-C30-TL	
Spec.	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	
Speeds	-	10*/11	-	10*/11	-	10*/11	
O.L.D. (mm) (Front/Rear)	100	130	100	130	100	130	
Wheel Size	700C	700C	622 x 15C	622 x 15C	622 x 15C	622 x 15C	
Rim	Height (mm)	37	37	23	24	31	
	Width (mm)	28	28	20.8	20.8	20.8	
	Rim joint	-	-	Sleeved	Sleeved	Welded	
	Brazed reinforcement	-	-	-	-	-	
Spokes	Number	16	21	16	20	21	
	Straight spoke	✓	✓	✓	✓	✓	
	Bladed	✓	✓	✓	✓	✓	
	Butted	✓	✓	✓	✓	✓	
Axle	Fixing method	Quick release	Quick release	Quick release	Quick release	Quick release	
	Quick release skewer length	129 mm	-	-	-	-	-
		133 mm	✓	-	✓	✓	-
		161 mm	-	-	-	-	-
		163 mm	-	✓	-	✓	✓
		166 mm	-	-	-	-	-
		168 mm	-	✓	-	✓	✓
		170 mm	-	-	-	-	-
	173 mm	-	-	-	-	-	
	Length	108	141	108	141	108	141
Diameter	15	14	15	14	16	16	
Thru Axle (Length x Inner diameter ; mm)	100 x 8	-	-	-	-	-	
	100 x 12	-	-	-	-	-	
	100 x 15	-	-	-	-	-	
	110 x 20	-	-	-	-	-	
	135 x 10	-	-	-	-	-	
	135 x 12	-	-	-	-	-	
	142 x 12	-	-	-	-	-	
150 x 12	-	-	-	-	-		
Bearing	Stainless ball	✓	✓	✓	✓	✓	
	Cup	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	
Disc mount	CENTER LOCK	-	-	-	-	-	
	CENTER LOCK mount cover option	-	-	-	-	-	
	140 mm Disc rotor compatible	-	-	-	-	-	
OPTBAL	-	✓	-	-	-	✓	
D2 rim	-	-	-	-	-	-	
OFFSET RIM	-	✓	-	✓	-	✓	
Digital adjustment system	✓	-	✓	✓	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	-	Contact	Contact	Contact	Contact	
Grease holding function	✓	-	✓	✓	✓	✓	
Requires rim tape	-	-	-	-	✓	✓	
Tire	Type	Tubular	Tubular	Clincher	Clincher	Tubeless	
	Recommended size	23-28 inch - 28-28 inch	23-28 inch - 28-28 inch	23-622 - 28-622	23-622 - 28-622	23-622 - 32-622	23-622 - 32-622
Rim	Material	Carbon painting	Carbon painting	Carbon+AL painting	Carbon+AL painting	Carbon+AL painting	
	Finish	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
Spoke	Material	Black	Black	Black	Black	Black	
	Finish	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
Nipple	Material	Black	Black	Black	Black	Black	
	Finish	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
FREEHUB body	Material	-	Titanium	-	-	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	Aluminum	
	Color	Series color	Series color	Series color	Resin Black	Resin Black	
Compatible Spoke protector	-	CP-W124	-	CP-WH23 (23T) CP-W120 CP-W020 (10-speed)	-	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)	637	747	618	835	616	924	
Note		* The adapter is needed to use 10-speed cassette sprocket		* The adapter is needed to use 10-speed cassette sprocket		* The adapter is needed to use 10-speed cassette sprocket	

# 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	
Spec.	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	
Speeds	-	10*/11	-	10*/11	-	10*/11	
O.L.D. (mm) (Front/Rear)	100	130	100	130	100	130	
Wheel Size	622 x 15C	622 x 15C	622 x 17C	622 x 17C	622 x 15C	622 x 15C	
Rim	Height (mm)	24	24	24	24	30	
	Width (mm)	20.8	20.8	23.2	23.2	20.8	
	Rim joint	Welded	Welded	Sleeved	Sleeved	Sleeved	
	Brazed reinforcement	✓	✓	-	-	-	
Spokes	Number	16	20	16	20	16	
	Straight spoke	✓	✓	✓	✓	✓	
	Bladed	✓	✓	✓	✓	✓	
	Butted	✓	✓	✓	✓	✓	
Axle	Fixing method	Quick release	Quick release	Quick release	Quick release	Quick release	
	Quick release skewer length	129 mm	-	-	-	-	-
		133 mm	✓	-	✓	-	✓
		161 mm	-	-	-	-	-
		163 mm	-	✓	-	✓	-
		166 mm	-	-	-	-	-
		168 mm	-	✓	-	✓	-
		170 mm	-	-	-	-	-
	173 mm	-	-	-	-	-	
	Length	108	141	108	141	108	
Diameter	14	14	9	10	9		
Thru Axle (Length x Inner diameter ; mm)	100 x 8	-	-	-	-	-	
	100 x 12	-	-	-	-	-	
	100 x 15	-	-	-	-	-	
	110 x 20	-	-	-	-	-	
	135 x 10	-	-	-	-	-	
	135 x 12	-	-	-	-	-	
	142 x 12	-	-	-	-	-	
150 x 12	-	-	-	-	-		
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 rotor compatible	-	-	-	-	-	
OPTBAL	-	-	-	-	-	✓	
D2 rim	-	-	-	-	-	-	
OFFSET RIM	-	✓	-	✓	-	✓	
Digital adjustment system	✓	-	-	-	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	-	Contact	Contact	Contact	Contact	
Grease holding function	✓	✓	✓	✓	✓	✓	
Requires rim tape	-	-	18-622	18-622	-	✓	
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	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	-	
Quick release housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Quick release nut	Material	Resin	Resin	Resin	Resin	Resin	
	Color	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 SV	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 SV	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 SV	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 sprocket	-	* The adapter is needed to use 10-speed cassette sprocket		* The adapter is needed to use 10-speed cassette sprocket	

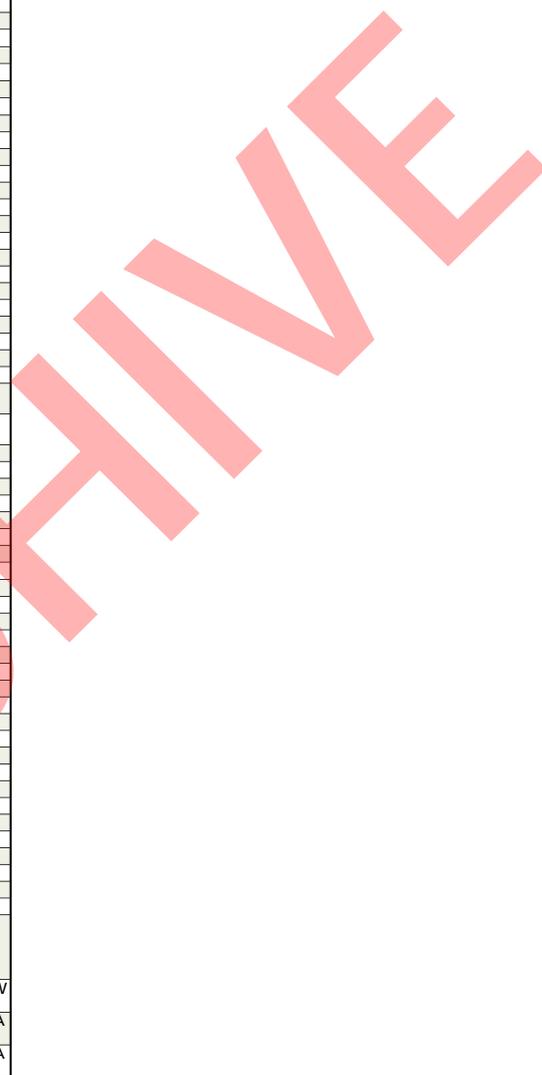
ST  
ST  
SL  
BL  
BL  
BR  
BR  
BR  
BR  
BR  
BC  
RD  
FD  
FC  
BB  
BB  
CS  
HB  
FH  
WH  
WH  
HP

# 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	
Spec.	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	
Speeds	-	10*/11	-	-	10*/11	8/9/10	
O.L.D. (mm) (Front/Rear)	100	130	100	130	100	130	
Wheel Size	622 x 17C	622 x 17C	622 x 15C	622 x 15C	622 x 15C	622 x 15C	
Rim	Height (mm)	24	24	24	24	24	
	Width (mm)	23.2	23.2	20.8	20.8	20.8	
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved	
	Brazed reinforcement	-	-	-	-	-	
Spokes	Number	20	24	20	24	20	
	Straight spoke	-	-	-	-	-	
	Bladed	-	-	-	-	✓	
	Butted	-	-	-	-	✓	
Axle	Fixing method	Quick release	Quick release	Quick release	Quick release	Quick release	
	Quick release skewer length	129 mm	-	-	-	-	-
		133 mm	✓	-	✓	-	✓
		161 mm	-	-	-	-	-
		163 mm	-	✓	-	✓	-
		166 mm	-	-	-	-	✓
		168 mm	-	✓	-	✓	✓
		170 mm	-	-	-	-	-
	173 mm	-	-	-	-	-	
	Length	108	141	108	141	108	
Diameter	9	10	9	10	9		
Thru Axle (Length x Inner diameter ; mm)	100 x 8	-	-	-	-	-	
	100 x 12	-	-	-	-	-	
	100 x 15	-	-	-	-	-	
	110 x 20	-	-	-	-	-	
	135 x 10	-	-	-	-	-	
	135 x 12	-	-	-	-	-	
	142 x 12	-	-	-	-	-	
150 x 12	-	-	-	-	-		
Bearing	Stainless ball	-	-	-	-	-	
	Cup	Polish	Polish	Polish	Polish	Polish	
	Cone	CBN	CBN	CBN finish	CBN finish	CBN finish	
Disc mount	CENTER LOCK	-	-	-	-	-	
	CENTER LOCK mount cover option	-	-	-	-	-	
	140 mm Disc rotor compatible	-	-	-	-	-	
OPTBAL	-	-	-	-	-		
D2 rim	-	-	-	-	-		
OFFSET RIM	-	✓	-	✓	-		
Digital adjustment system	-	-	-	-	-		
Seal	Hub	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	-	Contact	-	Contact	Contact	
Grease holding function	-	-	-	-	-		
Requires rim tape	18-622	18-622	✓	✓	✓	✓	
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	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	
	Color	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 sprocket	-	* The adapter is needed to use 10-speed cassette sprocket	-	-	

# Wheel (Rim Brake)

Series		SHIMANO	SHIMANO
Model no.		WH-R501-CL-F	WH-R501-CL-R
Model name		WH-R501-CL	WH-R501-CL
Spec.		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
Speeds		-	8/9/10
O.L.D. (mm) (Front/Rear)		100	130
Wheel Size		622 x 15C	622 x 15C
Rim	Height (mm)	24	24
	Width (mm)	20.8	20.8
	Rim joint	Sleeved	Sleeved
	Brazed reinforcement	-	-
Spokes	Number	20	24
	Straight spoke	-	-
	Bladed	-	-
	Butted	-	-
Fixing method		Quick release	Quick release
Axle	Quick release skewer length	129 mm	-
		133 mm	✓
		161 mm	-
		163 mm	-
		166 mm	-
		168 mm	✓
		170 mm	-
		173 mm	-
Length		108	141
Diameter		9	10
Thru Axle (Length x Inner diameter ; mm)	100 x 8	-	-
	100 x 12	-	-
	100 x 15	-	-
	110 x 20	-	-
	135 x 10	-	-
	135 x 12	-	-
	142 x 12	-	-
Bearing	Stainless ball	-	-
	Cup	Polish	Polish
	Cone	CBN finish	CBN finish
Disc mount	CENTER LOCK	-	-
	CENTER LOCK mount cover option	-	-
	140 mm Disc rotor compatible	-	-
OPTBAL		-	-
D2 rim		-	-
OFFSET RIM		-	-
Digital adjustment system		-	-
Seal	Hub	Contact	Contact
	FREEHUB body	-	Contact
Grease holding function		-	-
Requires rim tape		✓	✓
Tire	Type	Clincher	Clincher
	Recommended size	23-622 - 32-622	23-622 - 32-622
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
	Color	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			



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

# Wheel (Disc Brake)

Series	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE
Model no.	WH-R9170-C60-TU-F12	WH-R9170-C60-TU-R12	WH-R9170-C40-TL-F12	WH-R9170-C40-TL-R12	WH-R9170-C40-TU-F12	WH-R9170-C40-TU-R12
Model name SPEC	WH-R9170-C60-TU-F12	WH-R9170-C60-TU-R12	WH-R9170-C40-TL-F12	WH-R9170-C40-TL-R12	WH-R9170-C40-TU-F12	WH-R9170-C40-TU-R12
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
Speeds	-	10*/11	-	10*/11	-	10*/11
O.L.D. (mm) (Front/Rear)	100	142	100	142	100	142
Wheel Size	700C	700C	622 x 17C	622 x 17C	700C	700C
Rim	Height (mm)	60	60	37	37	37
	Width (mm)	28	28	24	24	28
	Rim joint	-	-	-	-	-
	Brazed reinforcement	-	-	-	-	-
Spokes	Number (Front/Rear)	24	24	24	24	24
	Straight spoke	✓	✓	✓	✓	✓
	Bladed	✓	✓	✓	✓	✓
	Butted	✓	✓	✓	✓	✓
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)	129	-	-	-	-	-
	133	-	-	-	-	-
	161	-	-	-	-	-
	163	-	-	-	-	-
	166	-	-	-	-	-
	168	-	-	-	-	-
	170	-	-	-	-	-
Thru Axle (Length x Inner diameter ; mm)	100 x 8	-	-	-	-	-
	100 x 12	✓	-	✓	-	-
	100 x 15	-	-	-	-	✓
	110 x 20	-	-	-	-	-
	135 x 10	-	-	-	-	-
	135 x 12	-	-	-	-	-
	142 x 12	-	✓	-	✓	-
150 x 12	-	-	-	-	-	
Bearing	Stainless ball	✓	✓	✓	✓	✓
	Cup	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-	-
	140 mm Disc brake rotor compatible	✓	✓	✓	✓	✓
OPTBAL	-	✓	-	✓	-	✓
D2 rim	✓	✓	-	-	-	-
OFFSET RIM	-	-	-	-	-	-
Digital adjustment system	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	Contact	Contact	Contact
Grease holding function	✓	-	✓	✓	✓	✓
Requires rim tape	-	-	-	-	-	-
Tire	Type	Tubular	Tubular	Tubeless	Tubeless	Tubular
	Recommended size	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622	23-622 - 32-622
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	Silver	Silver	Black	Black	Black
FREEHUB body	Material	-	Titanium	-	Titanium	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	-	-	-	-	-
	Color	-	-	-	-	-
Compatible spoke protector	-	CP-W1460	-	CP-W1460	-	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)	678	829	739	883	609	763
Note		* The adapter is needed to use 10-speed cassette sprocket		* The adapter is needed to use 10-speed cassette sprocket		* The adapter is needed to use 10-speed cassette sprocket

# Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-RS770-C30-TL-F12	WH-RS770-C30-TL-R12	WH-RS370-TL-F12	WH-RS370-TL-R12	WH-RS171-CL-F12-700C	WH-RS171-CL-F12-650B
Model name SPEC	WH-RS770-C30-TL-F12	WH-RS770-C30-TL-R12	WH-RS370-TL-F12	WH-RS370-TL-R12	WH-RS171-CL-F12-700c	WH-RS171-CL-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	Disc brake	Disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds	-	10*/11	-	10*/11	-	-
O.L.D. (mm) (Front/Rear)	100	142	100	142	100	100
Wheel Size	622 x 17C	622 x 17C	622 x 19C	622 x 19C	622 x 19C (700c)	584 x 19C (650b)
Rim	Height (mm)	28	28	19	19	19
	Width (mm)	23	23	24.6	24.6	24.6
	Rim joint	Welded	Welded	Welded	Welded	Sleeved
	Brazed reinforcement	-	-	-	-	-
Spokes	Number (Front/Rear)	24	24	24	24	28
	Straight spoke	✓	✓	✓	✓	-
	Bladed	✓	✓	-	-	-
	Butted	✓	✓	-	-	-
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)	129	-	-	-	-	-
	133	-	-	-	-	-
	161	-	-	-	-	-
	163	-	-	-	-	-
	166	-	-	-	-	-
	168	-	-	-	-	-
	170	-	-	-	-	-
	173	-	-	-	-	-
Thru Axle (Length x Inner diameter ; mm)	100 x 8	-	-	-	-	-
	100 x 12	✓	-	✓	-	✓
	100 x 15	-	-	-	-	-
	110 x 20	-	-	-	-	-
	135 x 10	-	-	-	-	-
	135 x 12	-	-	-	-	-
	142 x 12	-	✓	-	✓	-
	150 x 12	-	-	-	-	-
Bearing	Stainless ball	✓	-	-	-	-
	Cup	CBN finish	CBN finish	Polish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish
Disc mount	CENTER LOCK	✓	✓	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-	-	-
	140 mm Disc brake rotor compatible	✓	✓	✓	✓	✓
OPTBAL	-	✓	-	-	-	-
D2 rim	-	-	-	-	-	-
OFFSET RIM	-	-	-	-	-	-
Digital adjustment system	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	-	Contact	Contact	Contact	Contact
Grease holding function	✓	✓	✓	✓	✓	✓
Requires rim tape	-	-	-	✓	-	✓
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Clincher
	Recommended size	25-622 - 38-622	25-622 - 38-622	28-622 - 45-622	28-622 - 45-622	28-622 - 42-622
Rim	Material	Carbon+AL	Carbon+AL	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized/Painted	Anodized/Painted	Anodized/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	Brass
	Finish	Black	Black	Black	Black	Silver
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	Steel	Aluminum
	Finish	Anodized	Anodized	-	-	-
Quick release lever	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-
	Color	-	-	-	-	-
Compatible spoke protector	-	CP-W1460	-	CP-FH08 (23T-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 11/10-speed)	-	-
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	733	904	890	1090	897	867
Note		* The adapter is needed to use 10-speed cassette sprocket	-	* The adapter is needed to use 10-speed cassette sprocket		

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

# Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-RS171-CL-R12-700C	WH-RS171-CL-R12-650B	WH-RX010-CL-F	WH-RX010-CL-R
Model name		WH-RS171-CL-R12-700c	WH-RS171-CL-R12-650b	WH-RX010-CL-F	WH-RX010-CL-R
Color	1 Hub Shell	Black	Black	Black	Black
	1 Quick release	-	-	Black	Black
	2 Hub Shell	-	-	-	-
	2 Quick release	-	-	-	-
Front/Rear		Rear	Rear	Front	Rear
Brake type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds		10*/11	10*/11	-	10*/11
O.L.D. (mm) (Front/Rear)		142	142	100	135
Wheel Size		622 x 19C (700c)	584 x 19C (650b)	622 x 17C	622 x 17C
Rim	Height (mm)	19	19	24	24
	Width (mm)	24.6	24.6	23	23
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	-	-	-	-
Spokes	Number (Front/Rear)	28	28	28	28
	Straight spoke	-	-	-	-
	Bladed	-	-	-	-
	Butted	-	-	-	-
Axle Fixing method		12 mm E-THRU	12 mm E-THRU	Quick release	Quick release
Quick release skewer length (mm)	129	-	-	-	-
	133	-	-	✓	-
	161	-	-	-	-
	163	-	-	-	-
	166	-	-	-	-
	168	-	-	-	✓
	170	-	-	-	-
Thru Axle (Length x Inner diameter ; mm)	100 x 8	-	-	-	-
	100 x 12	-	-	-	-
	100 x 15	-	-	-	-
	110 x 20	-	-	-	-
	135 x 10	-	-	-	-
	135 x 12	-	-	-	-
	142 x 12	✓	✓	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	Polish	Polish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish	CBN finish
	Disc mount	CENTER LOCK	✓	✓	✓
Disc mount	CENTER LOCK mount cover option	-	-	-	-
	140 mm Disc brake rotor compatible	✓	✓	✓	✓
OPTBAL		-	-	-	-
D2 rim		-	-	-	-
OFFSET RIM		-	-	-	-
Digital adjustment system		-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	Contact	Contact	Contact
Grease holding function		✓	✓	✓	✓
Requires rim tape		✓	✓	-	-
Tire	Type	Clincher	Clincher	Clincher	Clincher
	Recommended size	28-622 - 42-622	28-584 - 42-584	25-622 - 38-622	25-622 - 38-622
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized/Painted	Anodized/Painted	Anodized (Black)	Anodized (Black)
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass
	Finish	Silver	Silver	Silver	Silver
FREEHUB body	Material	Steel	Steel	-	Steel
	Finish	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Steel	Steel
	Finish	-	-	-	-
Quick release lever	Material	-	-	Aluminum	Aluminum
	Finish	-	-	Painted	Painted
Quick release housing	Material	-	-	Steel	Steel
	Finish	-	-	Painted	Painted
Quick release nut	Material	-	-	Resin	Resin
	Color	-	-	Black	Black
Compatible spoke protector		CP-FH08 (23T-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 11/10-speed)	CP-FH08 (23T-28T 11-speed) CP-WH41 (23-30T 10-speed) CP-WH12 (32T 11/10-speed)	-	CP-FH08/CP-WH12 (11-speed), CP-FH40/CP-FH41/CP-WH12 (10-speed)
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average weight (g) (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		1098	1067	982	1177
Note		* The adapter is needed to use 10-speed cassette sprocket	* The adapter is needed to use 10-speed cassette sprocket	-	* The adapter is needed to use 10-speed cassette sprocket

# Head Parts

Series		DURA-ACE
Model no.		HP-7410
Size		JIS ENGLISH
Thread		BC 1 inch 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		

ARCHIVE

ST

ST

SL

BL

BL

BR

BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

ARCHIVE

	<i>Page</i>	
<b>Internal Geared Hub</b>	<b>178</b>	<b>SG</b>
<b>Chain Tensioner</b>	<b>183</b>	<b>CT</b>
<b>Cassette Sprocket</b>	<b>184</b>	<b>CS</b>
<b>Shifting Lever</b>	<b>185</b>	<b>SL</b>
<b>Brake Lever (Hydraulic Disc Brake)</b>	<b>189</b>	<b>BL</b>
<b>Brake Lever</b>	<b>190</b>	<b>BL</b>
<b>Brake (Hydraulic Disc Brake)</b>	<b>190</b>	<b>BR</b>
<b>Brake (Roller Brake)</b>	<b>191</b>	<b>RB</b>
<b>Crankset</b>	<b>192</b>	<b>FC</b>
<b>Front Hub (Roller Brake)</b>	<b>193</b>	<b>HB</b>
<b>FREEHUB (Roller Brake)</b>	<b>194</b>	<b>FH</b>
<b>FREEHUB (Band Brake)</b>	<b>195</b>	<b>FH</b>
<b>Head Parts</b>	<b>195</b>	<b>HP</b>

# Internal Geared Hub

Series		SHIMANO ALFINE	SHIMANO ALFINE	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO 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	-
Speeds		11	8	5	5	5	5
Gear ratio	Total	409%	307%	2.63	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		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO 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	-
Speeds		5	8	8	8	8	8
Gear ratio	Total	263%	307%	307%	307%	307%	307%
	1	1	0.527	0.527	0.527	0.527	0.527
	2	1.277	0.644	0.644	0.644	0.644	0.644
	3	1.622	0.748	0.748	0.748	0.748	0.748
	4	2.07	0.851	0.851	0.851	0.851	0.851
	5	2.63	1	1	1	1	1
	6	-	1.223	1.223	1.223	1.223	1.223
	7	-	1.419	1.419	1.419	1.419	1.419
	8	-	1.615	1.615	1.615	1.615	1.615
	9	-	-	-	-	-	-
	10	-	-	-	-	-	-
11	-	-	-	-	-	-	
Shifting structure		Top Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal
Silent clutch		✓	✓	✓	✓	✓	✓
Gear change support mechanism		✓	✓	✓	✓	✓	✓
Shifting POWER MODULATOR		✓	✓	✓	✓	✓	✓
Driving efficiency		High	High	High	Standard	Standard	Standard
w/ Left hand dust cap		-	✓	-	✓	-	-
O.L.D. (mm)		135	132	132	132	132	132
Spoke size		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	-	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
	Others	-	-	40H	-	40H	-
Axle length (mm)	182	-	-	-	-	-	-
	184	-	✓	✓	✓	✓	✓
	187	✓	-	-	-	-	-
	193	-	-	-	-	-	-
	Others	-	-	-	203	203	-
Flange distance (mm)		57.3	58.3	58.3	58.3	58.3	58.3
Flange diameter (mm)		105.2	105.2	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2	3.2
Offset (mm)		3.2	2.7	2.7	2.7	2.7	2.55
P.C.D Left/Right. (mm)		92.6	92.6	92.6	92.6	92.6	92.6
Hub shell	material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	finish	Painted	Painted	Painted	Painted	Painted	Painted
Average weight (g)		1650	1685	1660	1735	1710	2040
Note		-	-	-	-	-	-

SG

CT

CS

SL

BL

BL

BR

RB

FC

HB

FH

FH

HP

# Internal Geared Hub

Series		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO 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	-	-	-
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	-	-	-	-	-	-
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		-	-	-	-	-	-

# Internal Geared Hub

Series		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Model no.		SG-5R30	SG-5R30-V5	SG-5R35-V5	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
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	-	-	-	-	-	-
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	120/127/130	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

SG

CT

CS

SL

BL

BL

BR

RB

FC

HB

FH

FH

HP

# Internal Geared Hub

Series		SHIMANO NEXUS	SHIMANO NEXUS
Model no.		SG-3C41	SG-3D55
Function name		INTER-3	INTER-3
Color	1	Silver	Silver
	2	-	Black
	3	-	-
Brake type	Mount Type	Coaster brake	CENTER LOCK disc brake
	Recommended Model	-	-
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		SHIMANO ALFINE	SHIMANO ALFINE
Model no.		CT-S500	CT-S510
Color	1	Silver	-
	2	Black	-
	3	-	Silver&Black
Speeds		1	1
Compatible chain		CN-HG93 CN-HG73 CN-HG53	CN-HG73 (CS-S500) CN-HG53 (CS-S500) CN-HG71 (SM-GEAR)
Compatible cassette 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	18T (CS-S500) 16T (SM-GEAR)
Dropout		Vertical drop end type	Vertical drop end type
Direct attachment		-	-
Structure		Double pulley	Single pulley
Tensioner arm	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Note			

ARCHIVE

SG

CT

CS

SL

BL

BL

BR

RB

FC

HB

FH

FH

HP

# Cassette Sprocket

Series		SHIMANO ALFINE	SHIMANO NEXUS	SHIMANO 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			-	

# Shifting Lever

Series		SHIMANO ALFINE	SHIMANO ALFINE	SHIMANO ALFINE	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO 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		-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting 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		-	-	-	-	-	-
Shifting 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	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Recommended shifting 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							

SG

CT

CS

SL

BL

BL

BR

RB

FC

HB

FH

FH

HP

# Shifting Lever

Series		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO 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		-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting 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		-	-	-	-	-	-
Shifting 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	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel
	Finish	-	-	-	-	-	-
Recommended shifting 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					

# Shifting Lever

Series		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO 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		-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting 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		-	-	-	-	-	-
Shifting 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	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
	Finish	-	-	Standard	Standard	Standard	Standard
Recommended shifting 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							

SG

CT

CS

**SL**

BL

BL

BR

RB

FC

HB

FH

FH

HP

# Shifting Lever

Series		SHIMANO NEXUS
Model no.		SL-3S91J
Color	1	-
	2	-
	3	White
Shifter type		Piano-touch
Top-Normal		-
Front speeds		-
Rear speeds		3
Compatible rear derailleur/internal geared hub type		NEXUS INTER-3
Compatible front derailleur type		-
Shifting lever position adjust		-
Shifting 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		-
Shifting 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	-
Shifting lever cable	Material	Steel
	Finish	Standard
Recommended shifting lever outer casing		SP outer for IHG
Clamping Diameter (mm)		22.2
Average weight (g)		-
Note		

# Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO 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	-
Recommended brake caliper		BR-S7000
Oil		SHIMANO Mineral
Funnel bleeding		✓
Reach adjust	Toolless	-
	Tool	✓
Free stroke adjust		-
SERVO WAVE		-
Clamp band	Open clamp	✓
	I-SPEC	-
	I-SPEC II	✓
Clamp bolt	Material	Stainless steel
	Finish	-
Brake lever	Material	Aluminum
	Finish	Anodized
Master cylinder	Material	Aluminum
	Finish	Painted
Average weight (g)		-
Note		J-Kit spec available

SG

CT

CS

SL

BL

BL

BR

RB

FC

HB

FH

FH

HP

## Brake Lever

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

## Brake (Hydraulic Disc Brake)

Series		SHIMANO ALFINE
Model no.		BR-S7000
Brake type		Hydraulic disc brake
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	-
ICE TECHNOLOGIES pad compatible caliper		-
Brake Pad	Standard 1	G03S Resin
	Standard 2	-
	Option 1	-
	Option 2	-
Fixing bolt 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
Oil		SHIMANO Mineral
ONE WAY BLEEDING		✓
Mount type		Post-type
Piston		2
Piston material		Resin
Caliper	MONO-BODY	-
	Material	Aluminum
	Finish	Painted
Caliper fixing bolt	Material	Steel
	Tool size	5 mm
	Anti loosen method	Snap ring
Pad mount		Split pin (stainless steel)
Average weight (g)		-
Note		J-Kit spec available

# Brake (Roller Brake)

Series		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Model no.		BR-C6060-F	BR-C6000-F	BR-C6000-F-DX	BR-C6000-R	BR-C6000-R-DX	BR-C3010-F
Front		✓	✓	✓	-	-	✓
Rear		-	-	-	✓	✓	-
Structure type		Hyper	Hyper	Hyper	Hyper	Hyper	Normal
Braking power (*1)		1.7	1.5	1.5	1.2	1.2	1.2
Cooling fin diameter (mm)		138	150	150	150	150	140
Heat dissipation (*1)		1.4	1.4	1.4	1.4	1.4	1.2
Without cooling fin		-	-	-	-	-	-
With POWER MODULATOR function		✓	-	-	-	-	-
Wheel size (inch) / Outer diameter of tire (mm)	26-28 inch	-	✓	✓	✓	✓	✓
	660-712 mm	✓	-	-	-	-	-
	20-28 inch	-	-	-	-	-	-
	16-28 inch	-	-	-	-	-	-
	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	16-20 inch	-	-	-	-	-	-
Roller brake modulator grade	More than 26 inch High	-	✓	✓	-	-	-
	More than 26 inch Standard	-	-	-	-	-	✓
	20-24 inch	-	-	-	-	-	-
	Range of overall allowable mass for modulator (kg) ※mass = bicycle+rider+luggage	100-130	-	-	-	-	-
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					

Series		SHIMANO NEXUS					
Model no.		BR-C3010-R	BR-C3000-F	BR-C3000-F-DX	BR-C3000-R	BR-C3000-R-DX	BR-IM31-R
Front		-	✓	✓	-	-	-
Rear		✓	-	-	✓	✓	✓
Structure type		Normal	Normal	Normal	Normal	Normal	Normal
Braking power (*1)		1	1.2	1.2	1	1	0.9
Cooling fin diameter (mm)		140	122	122	122	122	90
Heat dissipation (*1)		1.2	1.0	1.0	1.0	1.0	Less than 1
Without cooling fin		-	-	-	-	-	Available
With POWER MODULATOR function		-	-	-	-	-	-
Wheel size (inch) / Outer diameter of tire (mm)	26-28 inch	✓	✓	✓	✓	✓	✓
	660-712 mm	-	-	-	-	-	-
	20-28 inch	-	-	-	-	-	-
	16-28 inch	-	-	-	-	-	-
	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
	16-20 inch	-	-	-	-	-	-
Roller brake modulator grade	More than 26 inch High	-	-	-	-	-	-
	More than 26 inch Standard	-	✓	✓	-	-	-
	20-24 inch	-	-	-	-	-	-
	Range of overall allowable mass for modulator (kg) ※mass = bicycle+rider+luggage	-	-	-	-	-	-
Inner cable quick release		✓	✓	✓	✓	✓	-
Note *1 Performance index rating uses BR-C3000-R brake unit as a reference value of 1. Testing condition.							

# Crankset

Series		SHIMANO ALFINE	SHIMANO 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)
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		45T/42T/39T	38T/33T
Q-factor		-	-
Crank arm length (mm)	165	-	-
	167.5	-	-
	170	✓	✓
	172.5	-	-
	175	-	-
	177.5	-	-
	180	-	-
Optional chain guard	With chain guard	✓ (double)	-
	Without chain guard	-	✓
HOLLOWTECH II		-	-
2-PIECE CRANKSET		✓	-
HOLLOWTECH crank arm		-	-
OCTALINK		-	-
HOLLOWGLIDE		-	-
Compatible bottom bracket type	Outboard	✓	-
	OCTALINK	-	-
	Square	-	✓
Recommended bottom bracket	Threaded (normal)	-	-
	Threaded (chain case)	-	BB-UN300-K
	Pressfit	-	-
Axle length of BB-UN/E5 (mm)	Threaded (normal)	-	-
	Threaded (chain case)	-	-
Threaded bottom bracket shell width (mm)	68	✓	✓
	70	-	-
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 bolt	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 bolt included		✓	✓
Average weight (g) (170 mm, w/o bottom bracket)		-	-
Note		t : Chain case thickness * Both of spec with bolt and spec w/o bolt are available.	

# Front Hub (Roller Brake)

Series		SHIMANO NEXAVE	SHIMANO NEXUS
Model no.		HB-IM70-NT	HB-IM40
Color	1 Hub Shell	Silver	Silver
	1 Quick release	Silver	-
	2 Hub Shell	-	-
	2 Quick release	-	-
Brake type		Hub roller brake	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	-	-
	20-24inch	-	-
	16-20 inch	-	-
Roller brake modulator grade	More than 26inch High	✓	-
	More than 26inch Standard	-	✓
	20-24inch	-	-
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			

SG

CT

CS

SL

BL

BL

BR

RB

FC

HB

FH

FH

HP

## FREEHUB (Roller Brake)

Series		SHIMANO NEXAVE	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-IM70	FH-IM20	RH-IM10	RH-IM11
Color	Hub shell	Silver	Silver	Silver / Black	Silver
	Quick release lever	-	-	-	-
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 lever	-
Spoke holes	28H	✓
	32H	-
	36H	✓
	Others	-
	P.C.D. (mm)	45
FREEHUB body	Speeds	Single speed
	11T compatible	-
	Roller clutch	-
	Material	Steel
O.L.D. (mm)		115/120
Flange diameter (mm)		55
Flange distance (mm)		51.5
Dish (mm)		1.8
Axle fixing method		Nut
Axle (quick release type)	Quick release Skewer Length	-
	Length (mm)	-
	Material	-
Axle (nut type)	Length left/right (mm)	165/170/180/185/192
	Material	Steel
Seal	Hub	-
	Freewheel	-
Hub shell	Material	Steel
	Finish	Plated
Note		for band brake

## Head Parts

Series		SHIMANO NEXUS
Model no.		HP-NX10
Color	1	Black
	2	-
A (mm)		ø30.01 (ø29.85) or ø30.2 (ø30)
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		

ARCHIVE

	<i>Page</i>	
<b>Chain</b>	<b>198</b>	<b>CN</b>
<b>Chain QUICK-LINK</b>	<b>199</b>	<b>SMCN</b>
<b>Disc Brake Rotor</b>	<b>200</b>	<b>RT</b>
<b>Disc Brake Hose</b>	<b>202</b>	<b>BH</b>
<b>Disc Brake Rotor Adapter</b>	<b>203</b>	<b>RTAD</b>
<b>Outer Casing</b>	<b>203</b>	<b>OT</b>
<b>Cable Adjuster</b>	<b>204</b>	<b>SMCB SMCA</b>
<b>POWER MODULATOR</b>	<b>204</b>	<b>RM</b>
<b>Hub Dynamo</b>	<b>205</b>	<b>DH</b>
<b>Light</b>	<b>210</b>	<b>LP</b>
<b>E-THRU Axle (AX)</b>	<b>212</b>	<b>SMAX</b>
<b>Cycle Computer</b>	<b>214</b>	<b>SC</b>
<b>Pedal (SPD)</b>	<b>215</b>	<b>PD</b>
<b>Pedal (CLICK'R)</b>	<b>217</b>	<b>PD</b>
<b>Pedal (Flat Pedal)</b>	<b>218</b>	<b>PD</b>
<b>Pedal (SPD-SL)</b>	<b>219</b>	<b>PD</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	HG-X11	HG-X11
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		

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO ULTEGRA
Model no.	CN-HG701-11	CN-HG601-11	CN-E6090-10	CN-HG95	CN-HG54	CN-6701
Type	HG-X11	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 10-speed
E-BIKE rear derailleur system compatible	✓	✓	✓	-	-	-
Pin link plate	SIL-TEC	Gray	SIL-TEC	SIL-TEC	Gray	Zinc-Alloy Plated
Roller link plate	SIL-TEC	SIL-TEC	SIL-TEC	SIL-TEC	Brown	Gray
Roller	-	-	-	-	-	-
Chromizing treatment roller link pin	✓	✓	✓	✓	✓	✓
Hollow pin	-	-	-	-	-	-
Average weight (g) (114 links)	257	257	276	273	273	267
Note						

Series	SHIMANO ULTEGRA	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CN-6600	CN-HG93	CN-E6070-9	CN-HG53	CN-HG71	CN-HG40
Type	HG 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG	HG
E-BIKE rear derailleur system compatible	-	-	✓	-	-	-
Pin link plate	Zinc-Alloy Plated	Zinc-Alloy Plated	Gray	Gray	Silver	Gray
Roller link plate	Gray	Gray	Gray	Brown	Gray	Brown
Roller	-	-	-	-	-	-
Chromizing treatment roller link pin	✓	✓	✓	✓	✓	-
Hollow pin	-	-	-	-	-	-
Average weight (g) (114 links)	273	299	276	299	324	324
Note	For triple					

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

# Chain QUICK-LINK

Series	SHIMANO	SHIMANO
Model no.	SM-CN910-12	SM-CN900-11
E-BIKE rear derailleur system compatible	✓	✓
Type	HG 12-speed	HG 11-speed
Pin link plate	Ni-plating	Ni-plating
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

ARCHIVE

CN

SMCN

RT

BH

RTAD

OT

SMCB  
SMCA

RM

DH

LP

SMAX

SC

PD

PD

PD

PD

# Disc Brake Rotor

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		RT-MT900	RT-MT800	SM-RT900	SM-RT800	SM-RT86	SM-RT70	
CENTER LOCK		✓	✓	✓	✓	-	✓	
6-bolt (P.C.D. 44 mm)		-	-	-	-	✓	-	
ICE TECHNOLOGIES		✓	✓	✓	✓	✓	✓	
ICE TECHNOLOGIES FREEZA		✓	✓	✓	✓	-	-	
Outside diameter	203 mm	✓	✓	-	-	✓	✓	
	180 mm	✓	✓	-	-	✓	✓	
	160 mm	✓	✓	✓	✓	✓	✓	
	140 mm	✓	✓	✓	✓	-	✓	
Alloy lock ring		✓	✓	✓	✓	✓	-	
Adapter	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Anodized	Painted	Painted	Painted	
Rotor	Material	Stainless steel + Aluminum + Stainless steel	Stainless steel + Aluminum + Stainless steel	Stainless steel + Aluminum + Stainless steel	Stainless steel + Aluminum + Stainless steel	Stainless steel + Aluminum + Stainless steel	Stainless steel + 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	Steel	
		Finish	Anodized	Anodized	Anodized	Anodized	Plated	
	External type	Material	Aluminum	Aluminum	-	-	-	Steel
		Finish	Anodized	Anodized	-	-	-	Plated
	Internal/External type	Material	-	-	-	-	-	-
		Finish	-	-	-	-	-	-
Average weight (g) (w/o lock ring)		150 (203 mm) 132 (180 mm) 108 (160 mm) 88 (140 mm)	163 (203 mm) 132 (180 mm) 108 (160 mm) 88 (140 mm)	117 (160 mm) 99 (140 mm)	128 (160 mm) 108 (140 mm)	187 (203 mm) 154 (180 mm) 135 (160 mm)	193 (203 mm) 159 (180 mm) 133 (160 mm) 121 (140 mm)	
Note		Painted fin	-	Painted fin	-	With anti loosen tightening plate	-	

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		SM-RT76	SM-RT66	SM-RT64	SM-RT500	SM-RT56	SM-RT54	
CENTER LOCK		-	-	✓	✓	-	✓	
6-bolt (P.C.D. 44 mm)		✓	✓	-	-	✓	-	
ICE TECHNOLOGIES		-	-	-	✓	-	-	
ICE TECHNOLOGIES FREEZA		-	-	-	-	-	-	
Outside diameter	203 mm	✓	✓	✓	-	-	-	
	180 mm	✓	✓	✓	-	✓	✓	
	160 mm	✓	✓	✓	-	✓	✓	
	140 mm	-	-	-	✓	-	-	
Alloy lock ring		-	-	-	✓	-	-	
Adapter	Material	Aluminum	-	Aluminum	Aluminum	-	Aluminum	
	Finish	Painted	-	Painted	Painted	-	Painted	
Rotor	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel + Aluminum + 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	Alluminum	-	Steel
		Finish	-	-	Plated	Anodized	-	Plated
	External type	Material	-	-	Steel	-	-	Steel
		Finish	-	-	Plated	-	-	Plated
	Internal/External type	Material	-	-	-	-	-	-
		Finish	-	-	-	-	-	-
Average weight (g) (w/o lock ring)		209 (203 mm) 169 (180 mm) 141 (160 mm)	-	-	103	-	-	
Note		With anti loosen tightening plate	With anti loosen tightening plate	-	-	With anti loosen tightening plate	-	

# Disc Brake Rotor

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

CN

SMCN

RT

BH

RTAD

OT

SMCB

SMCA

RM

DH

LP

SMAX

SC

PD

PD

PD

PD

# Disc Brake Hose

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-BH90-SB	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SBS	SM-BH90-SS	SM-BH59-JK-SS
Color	1	Black	Black	Black	Black	Black	Black
	2	White	-	-	White	White	White
	3	-	-	-	-	-	-
Hose joint	Brake lever	Straight	Straight	Straight	Straight	Straight	Straight
	Brake caliper	Banjo	Banjo	Banjo	Banjo	Straight	Straight
Rigidity		High power	High power	High power	High power	High power	Standard
Banjo	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Length	Standard	Long	Standard	Standard	-	-
	Banjo bolt length	Long	Short	Long BR-M9120 spec. * BR-M8100 spec. *	Short	-	-
	Banjo bolt material	Steel	Steel	Steel	Steel	-	-
Connecting bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
Note				* Banjo bolt is not included.			

Series		SHIMANO
Model no.		SM-BH59-SB
Color	1	Black
	2	White
	3	-
Hose joint	Brake lever	Straight
	Brake caliper	Banjo
Rigidity		Standard
Banjo	Material	-
	Length	-
	Banjo bolt length	-
	Banjo bolt material	-
Connecting bolt	Material	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).	

CN

SMCN

RT

BH

RTAD

OT

SMCB  
SMCA

RM

DH

LP

SMAX

SC

PD

PD

PD

PD

# Outer Casing

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

# Cable Adjuster

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

# POWER MODULATOR

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-PM70	SM-PM60	SM-PM50	SM-PM40
Modulator level		Standard	High*	Standard	Standard
Mount type		Lead pipe	Outer casing	Outer casing	Lead pipe
Available lead pipe angle	90 deg.	✓	-	-	✓
	135 deg.	✓	-	-	✓
Compatible Brake	V-BRAKE	✓**	✓***	-	✓**
	Mechanical disc brake (MTB)	-	-	✓**	-
	Mechanical disc brake (Road)	-	-	-	-
	Caliper (NEW SUPER SLR)	-	-	-	-
	Caliper (super SLR)	-	-	-	-
	Cantilever brake	-	-	-	-
Compatible Brake Lever	Roller brake	-	-	-	-
	V-BRAKE 4-finger	✓***	✓***	✓***	✓***
	V-BRAKE 3-finger	✓***	✓***	✓***	✓***
	V-BRAKE 2-finger	✓	✓	✓	✓
Road	-	-	-	-	
Body	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized + Laser Marking	Barrel and Sticker	Barrel and Printed	Barrel and Sticker
Lead pipe	Material	Stainless steel	-	-	Stainless steel
Note		** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	* City use for Japan market ** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake

# Hub Dynamo

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	
		Quick release lever	-	-	Silver	Black	-	Black
	2	Hub shell	Black	Black	Black	-	Black	-
		Quick release lever	-	-	Black	-	-	Black
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)	
O.L.D. (mm)		100	100	100	100	100	74	
Axle length (mm)		100	100	108	108	108	82	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	✓	
	28H	-	-	-	-	-	✓	
	32H	✓	✓	✓	✓	✓	-	
	36H	✓	✓	✓	✓	✓	-	
Axle fixing method		15 mm E-THRU	12 mm E-THRU *	Quick release	Quick release	Quick release	Quick release	
Quick release skewer length	129 mm	-	-	-	-	-	-	
	133 mm	-	-	✓	✓	✓	✓	
Thru Axle (Length x Inner diameter ; mm)	100 x 12	-	✓	-	-	-	-	
	100 x 15	✓	-	-	-	-	-	
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	
Seal		Single contact	Single contact	Single contact	Single contact	Single contact	Single contact	
Roller brake modulator grade	More than 26 inch	-	-	-	-	-	-	
	High Standard	-	-	-	-	-	-	
Electric power output connector	20-24 inch	-	-	-	-	-	-	
	J1 type	-	-	-	-	-	-	
	J2 type	-	-	-	-	-	-	
	E2 type	✓	✓	✓	✓	✓	✓	
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-Coating	E-Coating	Anodized	
Quick release housing	Material	-	-	Aluminum	Steel	Steel	Aluminum	
	Finish	-	-	Anodized	E-Coating	E-Coating	Anodized	
Quick release nut	Material	-	-	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	
	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
- RT
- BH
- RTAD
- OT
- SMCB
- SMCA
- RM
- DH
- LP
- SMAX
- SC
- PD
- PD
- PD
- PD

# Hub Dynamo

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO ALFINE	
Model no.		DH-3D72	DH-3D37-QR	DH-3D32-QR	DH-3D32-NT	DH-3N72	DH-5501	
Regulation	StVZO	✓	✓	✓	✓	✓	✓	
	TPGBi	✓	-	-	-	-	-	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Hub shell	Silver	Silver	Clear	Clear	Silver	Silver
		Quick release lever	Silver	-	-	-	Silver	Silver
	2	Hub shell	Black	Black	Black	Black	Black	Piano Black
		Quick release lever	Black	-	-	-	Silver	Silver
Type		Disc brake	Disc brake	Disc brake	Disc brake	Regular	Disc brake	
CENTER LOCK Mount type		✓	✓	-	-	-	✓	
Voltage (V)		6	6	6	6	6	6	
Output (W)		3	3	3	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)	(646 - 716)	(646 - 716)	
O.L.D. (mm)		100	100	100	100	100	100	
Axle length (mm)		108	108	108	140	108	108	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	-	-	-	
	32H	✓	✓	✓	✓	✓	✓	
	36H	✓	✓	✓	✓	✓	✓	
Axle fixing method		Quick release	Quick release	Quick release	Nut	Quick release	Quick release	
Quick release skewer length	129 mm	-	-	-	-	-	-	
	133 mm	✓	✓	✓	-	✓	✓	
Thru Axle (Length x Inner diameter ; mm)	100 x 12	-	-	-	-	-	-	
	100 x 15	-	-	-	-	-	-	
Flange Distance (mm)		52.1	51	51.1	51.1	60.0	52.1	
Offset (mm)		3.8	4	4	3.6	0	3.8	
P.C.D. Left/Right (mm)		70	74	74	74	70	70	
Seal		Single contact	Single contact	Single contact	Single contact	Single contact	Single contact	
Roller brake modulator grade	More than 26 inch	-	-	-	-	-	-	
	High 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	Anodized & Painted	Anodized	
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Phosphate coated	Zinc plated	Zinc plated	
Quick release lever	Material	Aluminum	Steel	Steel	-	Aluminum	Aluminum	
	Finish	Anodized	Nickel plated	Nickel plated	-	Anodized	Anodized	
Quick release housing	Material	Aluminum	Steel	Steel	-	Aluminum	Aluminum	
	Finish	Anodized	Nickel plated	Nickel plated	-	Anodized	Anodized	
Quick release nut	Material	Resin & Steel	Resin & Steel	Resin & Steel	-	Resin & Steel	Resin & Steel	
	Finish	-	-	-	-	-	-	
Average weight (g)		559	650	685	705	560	564	
Note								

# Hub Dynamo

Series		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	
Model no.		DH-C6000-3R-NT	DH-C6000-2R	DH-C6000-1R	DH-C3000-3N-QR	DH-C3000-3N-NT	DH-C3000-2N-QR	
Regulation	StVZO	✓	-	✓	✓	✓	-	
	TPGBi	✓	-	-	✓	✓	-	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Hub shell	Silver	Silver	Silver	Silver	Silver	
		Quick release lever	Black	-	-	-	-	-
	2	Hub shell	-	Black	Black	Black	Black	Black
		Quick release lever	-	-	-	-	-	-
Type		Hub Roller Brake	Hub Roller Brake	Hub Roller Brake	Regular	Regular	Regular	
CENTER LOCK Mount type		-	-	-	-	-	-	
Voltage (V)		6	6	6	6	6	6	
Output (W)		3	2.4	1.5	3.0	3.0	2.4	
Wheel size	26-28 inch	✓	✓	✓	-	-	-	
	20-28 inch	-	-	-	-	-	-	
	18-28 inch	-	-	-	-	-	-	
	16-28 inch	-	-	-	✓	✓	✓	
	24-28 inch	-	-	-	-	-	-	
	20-24 inch	-	-	-	-	-	-	
	16-20 inch	-	-	-	-	-	-	
	Compatible wheel size (mm)	(646 - 716)	(646 - 716)	(646 - 716)	(400 - 716)	(400 - 716)	(400 - 716)	
O.L.D. (mm)		100	100	100	100	100	100	
Axle length (mm)		140	140	140	108	140	108	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	-	✓	-	
	32H	✓	✓	✓	✓	✓	✓	
	36H	✓	✓	✓	✓	✓	✓	
Axle fixing method		Nut	Nut	Nut	Quick release	Nut	Quick release	
Quick release skewer length	129 mm	-	-	-	✓	-	✓	
	133 mm	-	-	-	✓	-	✓	
Thru Axle (Length x Inner diameter ; mm)	100 x 12	-	-	-	-	-	-	
	100 x 15	-	-	-	-	-	-	
Flange Distance (mm)		58.1	58.1	58.1	60.0	60.0	60.0	
Offset (mm)		4.7	4.7	4.7	0.6	1.0	0.6	
P.C.D. Left/Right (mm)		76	76	76	74	74	74	
Seal		Single Contact	Single contact	Single contact	Single contact	Single contact	Single contact	
Roller brake modulator grade	More than 26 inch	High	✓	✓	✓	-	-	
		Standard	✓	✓	✓	-	-	
	20-24 inch	-	-	-	-	-	-	
Electric power output connector	J1 type	-	-	-	-	-	-	
	J2 type	-	-	-	-	-	-	
	E2 type	✓	✓	✓	✓	✓	✓	
	Others	Aluminum	-	-	-	-	-	
Hub shell	Material	Painted	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Steel	Painted	Painted	Painted	Painted	Painted	
Axle	Material	Manganese Phosphate Coated	Steel	Steel	Steel	Steel	Steel	
	Finish	-	Phosphate coated					
Quick release lever	Material	-	-	-	Steel	-	Steel	
	Finish	-	-	-	Nickel plated	-	Nickel plated	
Quick release housing	Material	-	-	-	Steel	-	Steel	
	Finish	-	-	-	Nickel plated	-	Nickel plated	
Quick release nut	Material	-	-	-	Resin & Steel	-	Resin & Steel	
	Finish	-	-	-	-	-	-	
Average weight (g)		960	960	960	700	712	700	
Note		* For LED light use only						

CN

SMCN

RT

BH

RTAD

OT

SMCB

SMCA

RM

DH

LP

SMAX

SC

PD

PD

PD

PD

# Hub Dynamo

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

# Hub Dynamo

Series		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO	SHIMANO	
Model no.		DH-2N40-J	DH-2N40-JC	DH-2N40-JW	DH-2N40-JWC	
Regulation	StVZO	-	-	-	-	
	TPGBi	-	-	-	-	
	JIS	✓	✓	✓	✓	
	Others	-	-	-	-	
Color	1	Hub shell	Silver	Silver	Silver	Silver
		Quick release lever	-	-	-	-
	2	Hub shell	Black	Black	Black	Black
		Quick release lever	-	-	-	-
Type		Regular	Regular	Regular	Regular	
CENTER LOCK Mount type		-	-	-	-	
Voltage (V)		6	6	6	6	
Output (W)		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)	-	-	-	-	
O.L.D. (mm)		93	93	100	100	
Axle length (mm)		155 / 150	150	140	140	
Spoke size		#13/#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	
	28H	-	✓	-	-	
	32H	-	-	-	-	
	36H	✓	-	✓	✓	
Axle fixing method		Nut	Nut	Nut	Nut	
Quick release skewer length	129 mm	-	-	-	-	
	133 mm	-	-	-	-	
Thru Axle (Length x inner diameter ; mm)	100 x 12	-	-	-	-	
	100 x 15	-	-	-	-	
Flange Distance (mm)		60	60	60	60	
Offset (mm)		0	0	3	3	
P.C.D. Left/Right (mm)		69	69	69	69	
Seal		Single contact	Single contact	Single contact	Single contact	
Roller brake modulator grade	More than 26 inch	High	-	-	-	
		Standard	-	-	-	
	20-24 inch	-	-	-	-	
Electric power output connector	J1 type	-	-	-	-	
	J2 type	✓	✓	✓	✓	
	E2 type	-	-	-	-	
	Others	-	-	-	-	
Hub shell	Material	Aluminum & Steel	Aluminum & Steel	Aluminum & Steel	Aluminum & Steel	
	Finish	Painted/Passivation	Painted/Passivation	Painted/Passivation	Painted/Passivation	
Axle	Material	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Quick release lever	Material	-	-	-	-	
	Finish	-	-	-	-	
Quick release housing	Material	-	-	-	-	
	Finish	-	-	-	-	
Quick release nut	Material	-	-	-	-	
	Finish	-	-	-	-	
Average weight (g)		630	630	630	630	
Note		* Specification for Japan market				

- CN
- SMCN
- RT
- BH
- RTAD
- OT
- SMCB
- SMCA
- RM
- DH**
- LP
- SMAX
- SC
- PD
- PD
- PD
- PD

# Light

Series		SHIMANO 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					
Main light		High Power LED					
Brightness (At 5 m distance, JIS standard = 16 lx)		40 lx					
Lighting pattern		WIDE	Wide	Wide	Wide	Wide	Wide
Sub light		-	-	-	-	-	-
Stand light (LED flashing) function		-	-	-	-	-	-
Reflector integration		✓	✓	✓	✓	-	-
Electric power input	Tab-on type	-	-	-	-	-	-
	Connector type	J2-A	J2-A	J2-A	J2-A	J2-A	J2-A
Light body material		Resin	Resin	Resin	Resin	Resin	Resin
Color	1	CP	CP	CP	CP	Silver/Black/Black	CP/Silver/Black
	2	Silver (Painted)	Silver (Painted)	Silver (Painted)	Silver (Painted)	Black/Gray/Black	CP/Silver/White
	3	White	White	White	White	-	-
	4	Black	Black	Black	Black	-	-
	5	Gray	Gray	Gray	Gray	-	-
	6	-	-	-	-	-	-
Attachment position	Light stay	-	✓	-	✓	-	-
	Below basket	✓	-	✓	-	✓	-
	Fork center	-	-	-	-	-	✓
	Handle bar	-	-	-	-	-	-
	On mud guard	-	-	-	-	-	-
	Mud guard style stay	-	-	-	-	-	-
	Seat stay	-	-	-	-	-	-
Compatible seat stay diameter (mm)	13	-	-	-	-	-	-
	16	-	-	-	-	-	-
	19	-	-	-	-	-	-
Compatible handle bar diameter (mm)	22.2	-	-	-	-	-	-
	25.4	-	-	-	-	-	-
	31.8	-	-	-	-	-	-
Switch	Auto	-	-	-	-	-	-
	Manual (on)	-	-	-	-	-	-
	Manual (off)	-	-	-	-	-	-
	Permanent	✓	✓	✓	✓	✓	✓
Electric wire color	Black	-	-	-	-	-	✓
	Gray	✓	✓	✓	✓	✓	-
Electric wire length(mm)	Tab-on type	-	-	-	-	-	-
	Connector type	715	405	715	405	710	500
EZ cable clamp		-	-	-	-	-	-
Cord length adjuster		-	-	-	-	-	-
Compatible wheel size		-	-	-	-	-	-
Note		* Specification for Japan market					

# Light

Series		SHIMANO	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO 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	J2A	✓	✓	✓
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		-	-	-	-	22/24/26/27 inch
Note		* Specification for Japan market (attached with special stay. 2 kinds of stays are available. One for internal geared hub, another for FREEHUB)				

CN

SMCN

RT

BH

RTAD

OT

SMCB

SMCA

RM

DH

LP

SMAX

SC

PD

PD

PD

PD

# 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
Axle type	135 x 10 mm	-	-	-	-	-	-
	100 x 12 mm	✓	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-	-
	142 x 12 mm	-	✓	✓	-	-	✓
	148 x 12 mm	-	-	-	✓	✓	-
	157 x 12 mm	-	-	-	-	✓	-
Lever position adjustment	Tool-less type	-	-	-	-	-	-
	Hexagon wrench type	✓	✓	✓	✓	✓	✓
Axle	Thread pitch	M12 x 1.5					
	Length (mm)	121	163	166	172	181	166
	Hollow axle	✓	✓	✓	✓	✓	✓
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black Anodized	Silver Anodized				
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black Anodized	Painted (Black)				
Housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black Anodized	Painted (Black)				
Fixing nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average weight (g)		65	74	75	76	79	79
Note							

Series		SHIMANO	SHIMANO	SAINT	SHIMANO	SHIMANO	SHIMANO
Model no.		AX-MT500-148x12	AX-MT500-157x12	SM-AX80	SM-AX78	SM-AX78-B	SM-AX76
Axle type	135 x 10 mm	-	-	✓	-	-	-
	100 x 12 mm	-	-	-	-	-	-
	135 x 12 mm	-	-	✓	-	-	-
	142 x 12 mm	-	-	-	✓	-	✓
	148 x 12 mm	✓	-	150 x 12 mm	-	✓	-
	157 x 12 mm	-	✓	-	-	-	-
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	171
	Hollow axle	✓	✓	✓	✓	✓	✓
	Material	Aluminum	Aluminum	Chromoly Steel	Aluminum	Aluminum	Aluminum
	Finish	Silver Anodized	Silver Anodized	Plated	Black Anodized	Black Anodized	Black Anodized
Lever	Material	Aluminum	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	Painted (Black)	Painted (Black)	-	Black Anodized	Black Anodized	Black Anodized
Housing	Material	Aluminum	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	Painted (Black)	Painted (Black)	-	Black Anodized	Black Anodized	Black Anodized
Fixing nut	Material	-	-	Steel	-	-	Aluminum
	Finish	-	-	Plated	-	-	Black Anodized
Average weight (g)		80	83	133 (135 x 10 mm) 160 (135 x 12 mm) 169 (150 x 12 mm)	77	78	69
Note							

# E-THRU Axle (AX)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-AX76-B	SM-AX58	SM-AX58-B	SM-AX56	SM-AX56-B
Axle type	135 x 10 mm	-	-	-	-	-
	100 x 12 mm	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-
	142 x 12 mm	-	✓	-	✓	-
	148 x 12 mm	✓	-	✓	-	✓
	157 x 12 mm	-	-	-	-	-
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
	Length (mm)	177	166	172	171	177
	Hollow axle	✓	✓	✓	✓	✓
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black Anodized	Silver Anodized	Silver Anodized	Silver Anodized	Silver Anodized
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black Anodized	Painted (Black)	Painted (Black)	Painted (Black)	Painted (Black)
Housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black Anodized	Black Anodized	Black Anodized	Painted (Black)	Painted (Black)
Fixing nut	Material	Aluminum	-	-	Aluminum	Aluminum
	Finish	Black Anodized	-	-	Black Anodized	Black Anodized
Average weight (g)		71	81	82	75	77
Note						



- CN
- SMCN
- RT
- BH
- RTAD
- OT
- SMCB
- SMCA
- RM
- DH
- LP
- SMAX**
- SC
- PD
- PD
- PD
- PD

# Cycle Computer

Series	SHIMANO CI-DECK	
Model no.	SC-CI300	
Compatible system	Mechanical	
Attachment position	Handlebar	
Battery type	CR2032	
Charging for cycle computer	-	
Rear speeds	-	
Front speeds	-	
Number of programable wheel size	1	
Wheel size range	20 inch/22 inch/24 inch/26 inch	
Remote switch	-	
Communications	Wired	
Memory capacity	-	
PC software available	-	
Detachable	✓	
Display spec	Size (Active Area)	20 x 20 mm
	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	

# Pedal (SPD)

Series	XTR	XTR	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO	SHIMANO
Model no.	PD-M9100	PD-M9120	PD-M8100	PD-M8120	PD-M540	PD-M520
Color 1	Black	Black	Series color	Series color	Silver	Silver
Color 2	-	-	-	-	Black	Black
Color 3	-	-	-	-	-	-
Type	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (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-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51
Optional cleat	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56
Reflector	SM-PD60 SM-PD22 (3 mm shorter axle type)	SM-PD60	SM-PD60	SM-PD60	SM-PD22	SM-PD22
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized (Silver) /Painted (Bronze)	Polished (Silver) /Painted (Black) /Painted (White)
Cage	Material	-	-	-	-	-
Average weight (g)	310 (/pair) (Short axle type) 314 (/pair) (Normal axle type)	398 (/pair)	342 (/pair)	438 (/pair)	352 (/pair)	380 (/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	1.0 mm cleat spacer included		

Series	SHIMANO	SAINT	SHIMANO DXR	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-M505	PD-M820	PD-MX70	PD-M647	PD-M324	PD-ME700
Color 1	Silver	Black	Black	Black	Silver	Black
Color 2	Black	-	-	-	-	-
Color 3	-	-	-	-	-	-
Type	Off-Road (SPD)	Off-Road/DH (SPD)	Off-Road (SPD)	Off-Road/BMX (SPD)	Multi-purpose (SPD/Flat)	Off-Road (SPD)
Binding	Dual Sided	Dual sided	Dual sided	Dual Sided	Single 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-SH51	SM-SH51	SM-SH51	SM-SH56	SM-SH51
Optional cleat	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH51	SM-SH56
Reflector	SM-PD22	SM-PD60	SM-PD60	SM-PD60	Y41B98010	SM-PD60
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Polished (Silver) /Painted (Black)	Painted	Anodized	Painted	Painted
Cage	Material	-	-	Resin	Steel	-
Average weight (g)	443 (/pair)	546 (/pair) (w/o pins & washers)	414 (/pair)	568 (/pair)	533 (/pair)	540 (/pair)
Note		4 height adjustable pins 1.0 mm cleat spacer included	Higher retention force and narrower release angle than normal SPD pedals 1.0 mm cleat spacer included			

## Pedal (SPD)

Series	SHIMANO DEORE XT	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-T8000	PD-ES600	PD-EH500	PD-ED500
Color 1	Black	Dark Gray	Dark Gray	Dark Gray
Color 2	-	-	-	-
Color 3	-	-	-	-
Type	Trekking (SPD/Flat)	Road (SPD)	Multi-purpose (SPD/Flat)	Road (SPD)
Binding	Single Sided	Single Sided	Single Sided	Dual Sided
Pedal axle material	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-SH56	SM-SH51	SM-SH56	SM-SH56
Optional cleat	SM-SH51	SM-SH56	SM-SH51	SM-SH51
Reflector	Integrated	SM-PD62	SM-PD68	SM-PD60
Pedal body	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted (Dark Gray)
Cage	Material	-	-	-
Average weight (g)	392 (/pair)	279 (/pair)	383 (/pair)	442 (/pair)
Note		1.0 mm cleat spacer included	Light action	Light action

# Pedal (CLICK'R)

Series	SHIMANO	
Model no.	PD-T421	
Color 1	Black	
Color 2	-	
Color 3	-	
Type	Trekking (CLICK'R)	
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-SH56	
Optional cleat	SM-SH51	
Reflector	Integrated	
Pedal body	Material	Aluminum
	Finish	Painted
Cage	Material	Resin
Average weight (g)		418 (/pair)
Note		

ARCHIVE

CN

SMCN

RT

BH

RTAD

OT

SMCB  
SMCA

RM

DH

LP

SMAX

SC

PD

PD

PD

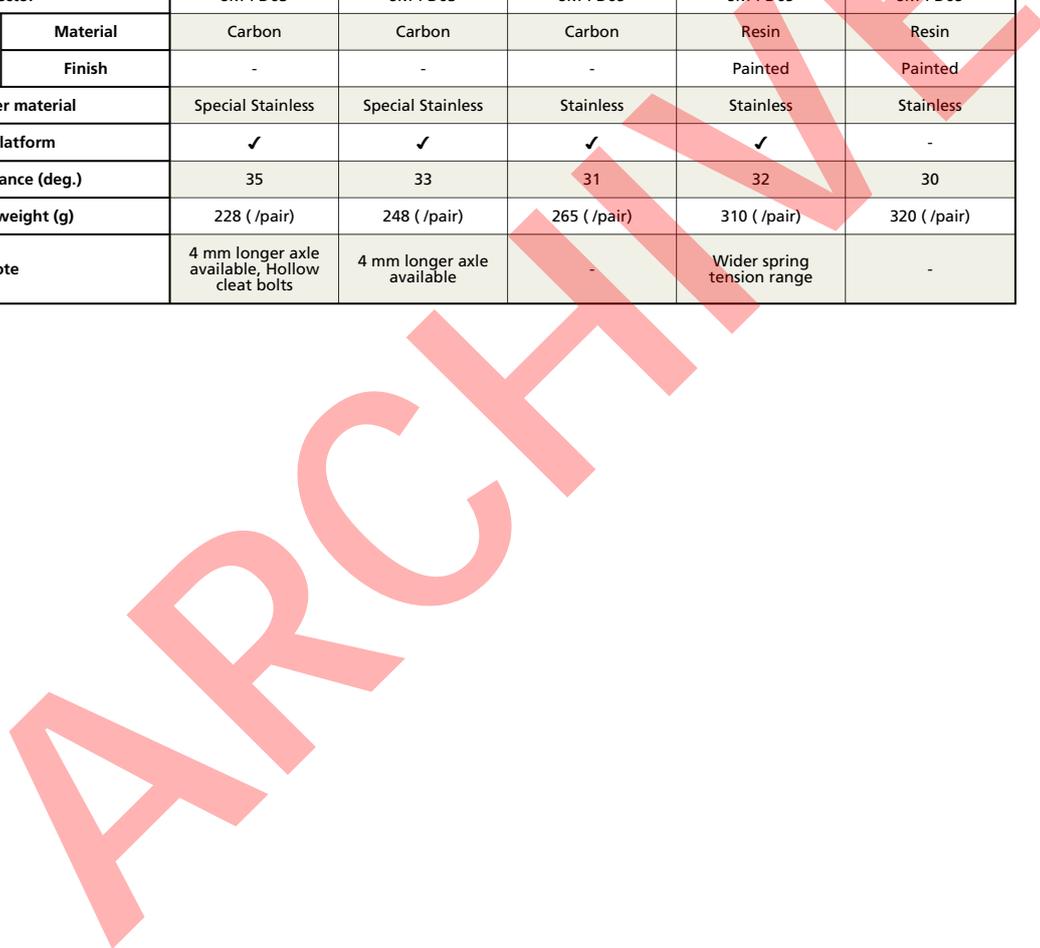
PD

# Pedal (Flat Pedal)

Series	SAINT	SHIMANO DEORE XT	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-M828	PD-M8140	PD-GR500	PD-EF202	PD-EF205
Color 1	Black	Black	Black	Black	Black
Color 2	-	-	Silver	Silver	Silver
Color 3	-	-	-	Red	Red
Color 4	-	-	-	Blue	Blue
Color 5	-	-	-	Gold	Gold
Type	Off-Road (Flat Pedal)	Off-Road (Flat Pedal)	Off-Road (Flat Pedal)	Flat Pedal	Flat Pedal
Binding	-	-	-	-	-
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	-	-	-	-	-
Optional cleat	-	-	-	-	-
Reflector	SM-PD64A	SM-PD67	SM-PD64A	Attachable (SM-PD53)	Attachable (SM-PD53)
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted
Cage	Material	-	-	-	-
Average weight (g)	553 (/pair)	461 (/pair) (SM) 505 (/pair) (ML)	533 (/pair)	512 (/pair)	612 (/pair)
Note	12 pins per platform	10 pins per platform 2 platform size available (SM/ML)	9 pins per platform	-	-

# Pedal (SPD-SL)

Series	DURA-ACE	SHIMANO ULTEGRA	SHIMANO 105	SHIMANO	SHIMANO
Model no.	PD-R9100	PD-R8000	PD-R7000	PD-R550	PD-RS500
Color 1	CFRP	CFRP	CFRP	Black	Black
Color 2	-	-	-	Gray	-
Color 3	-	-	-	-	-
Type	Road	Road	Road	Road	Road
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-SH12	SM-SH11	SM-SH11	SM-SH11	SM-SH11
Optional cleat	SM-SH10, SM-SH11	SM-SH10, SM-SH12	SM-SH10, SM-SH12	SM-SH10, SM-SH12	SM-SH10, SM-SH12
Reflector	SM-PD63	SM-PD63	SM-PD65	SM-PD65	SM-PD65
Pedal body	Material	Carbon	Carbon	Resin	Resin
	Finish	-	-	Painted	Painted
Body cover material	Special Stainless	Special Stainless	Stainless	Stainless	Stainless
Wide platform	✓	✓	✓	✓	-
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 bolts	4 mm longer axle available	-	Wider spring tension range	-



CN

SMCN

RT

BH

RTAD

OT

SMCB

SMCA

RM

DH

LP

SMAX

SC

PD

PD

PD

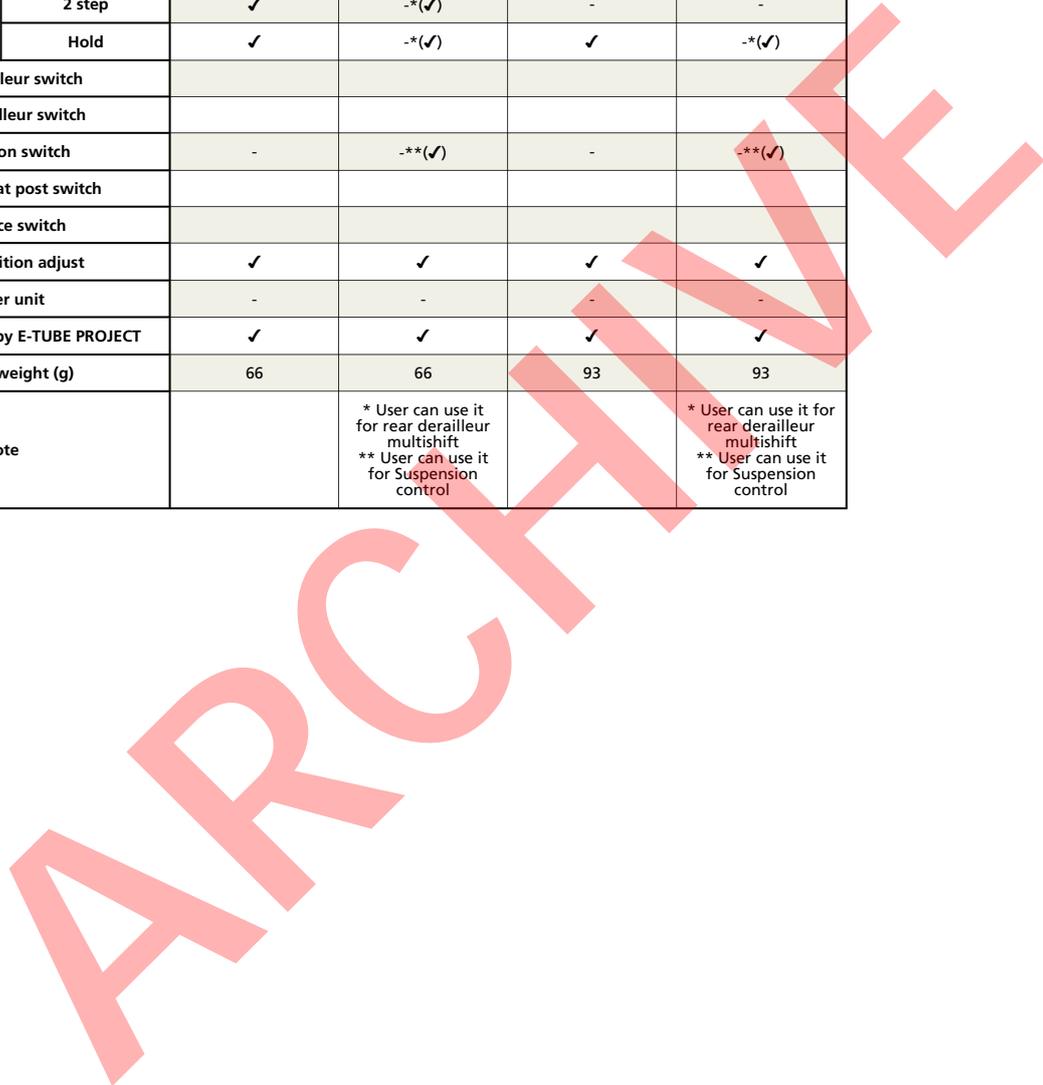
PD

ARCHIVE

		Page	
<MTB>	Shifting Switch	222	SW
	Rear Derailleur	223	RD
	Front Derailleur	224	FD
	Mount Adapter for Front Derailleur	225	SMAD
	System Information Display	226	SC
<GRAVEL/ ADVENTURE>	Shifting/Brake Lever (Hydraulic Disc Brake)	227	SL
	Rear Derailleur	228	RD
	Front Derailleur	228	FD
<ROAD>	Shifting/Brake Lever	229	ST
	Shifting/Brake Lever (Hydraulic Disc Brake)	230	ST
	Shifting Switch	231	SW
	Rear Derailleur	232	RD
	Front Derailleur	233	FD
	Front Derailleur (Adapter)	233	SMAD
	<URBAN>	Internal Geared Hub	234
	Motor Unit	236	MU
<GENERAL>	Electric Wire	237	EW
	Cord Cover	237	EWC
	Grommet	237	GM
	Wireless Unit	238	WU
	Junction [A]	238	JC
	Junction [B]	239	JC
	Battery	239	BT
	Battery Mount	240	BM
	Battery Case	240	SMBT
	Battery Charger	240	SMBC
	Charger Cord	241	BCC
	PC Linkage Device	241	SMPCE
	Cord Band	242	SMCB
Cord Crip	242	SMCC	

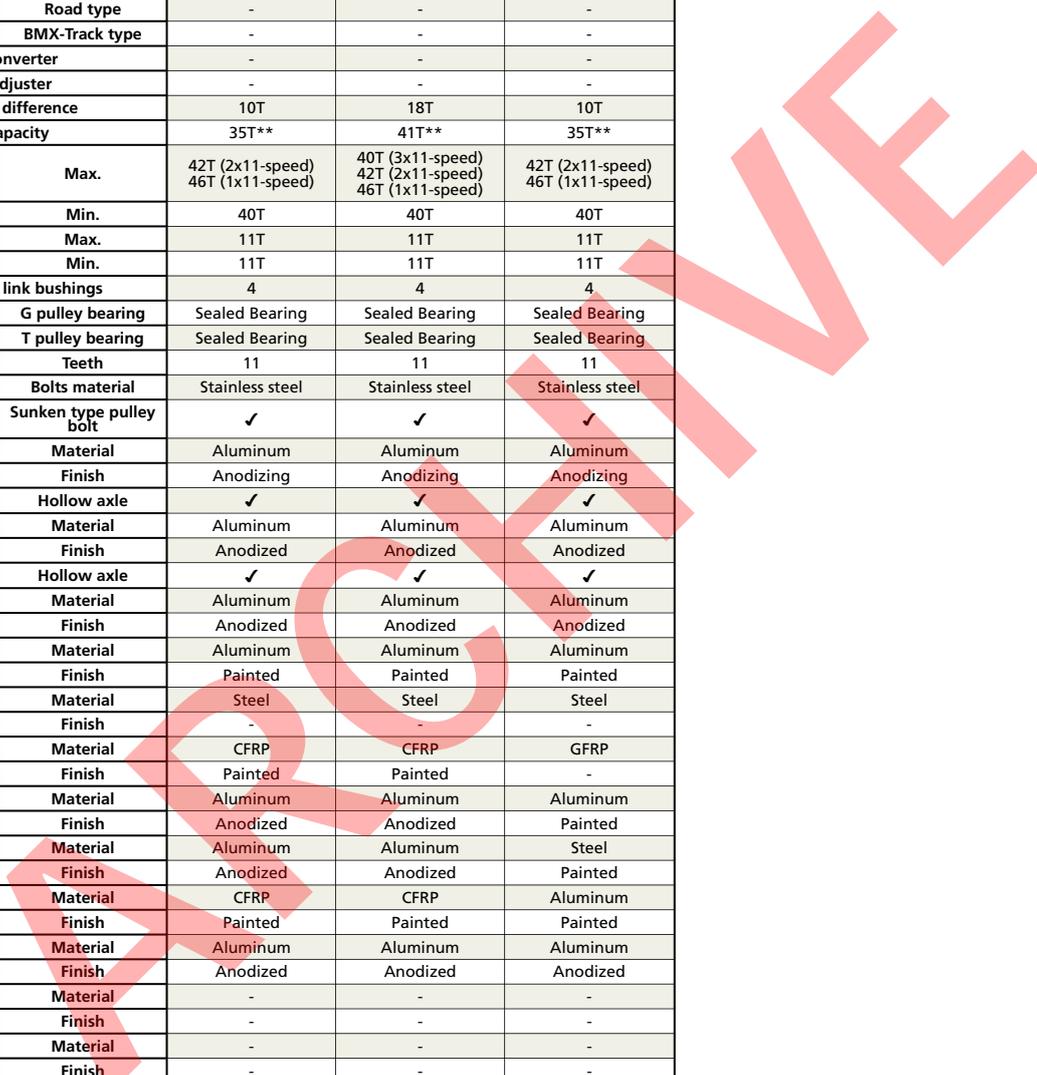
# Shifting Switch

Series		SHIMANO XTR	SHIMANO XTR	SHIMANO DEORE XT	SHIMANO DEORE XT
Model no.		SW-M9050-R	SW-M9050-L	SW-M8050-R	SW-M8050-L
Switch type		FIREBOLT	FIREBOLT	FIREBOLT	FIREBOLT
Position		Clamp band, Right	Clamp band, Left	Clamp band, Right	Clamp band, Left
Compatible electric wire		EW-SD50	EW-SD50	EW-SD50	EW-SD50
Switch QTY		2	2	2	2
SD50 port (pcs)		1	1	1	1
SD300 port (pcs)		0	0	0	0
SD50 connector (pcs)		0	0	0	0
SD300 connector (pcs)		0	0	0	0
Multiple input	2 step	✓	-*(✓)	-	-
	Hold	✓	-*(✓)	✓	-*(✓)
Rear derailleur switch					
Front derailleur switch					
Suspension switch		-	-***(✓)	-	-***(✓)
Advanced seat post switch					
3rd device switch					
Mount Position adjust		✓	✓	✓	✓
Master unit		-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓
Average weight (g)		66	66	93	93
Note			* User can use it for rear derailleur multishift ** User can use it for Suspension control		* User can use it for rear derailleur multishift ** User can use it for Suspension control



# Rear Derailleur

Series		SHIMANO XTR	SHIMANO XTR	SHIMANO DEORE XT
Model no.		RD-M9050-GS	RD-M9050-SGS	RD-M8050-GS
Pulley cage		GS	SGS	GS
Color	1	Series color	Series color	Series color
	2	-	-	-
Rear speeds		11	11	11
Compatible chain		HG-X11	HG-X11	HG-X11
Top-Normal spring type	SHIMANO SHADOW RD	✓	✓	✓
	SHIMANO SHADOW RD+	✓	✓	✓
	Double servo	-	-	-
Mount	Direct attachment (Conventional)	✓	✓	✓
	Direct mount compatible	✓*	✓*	✓*
Riveted adapter	Road type	-	-	-
	BMX-Track type	-	-	-
Mode converter		-	-	-
Cable adjuster		-	-	-
Max. front difference		10T	18T	10T
Total capacity		35T**	41T**	35T**
Low sprocket	Max.	42T (2x11-speed) 46T (1x11-speed)	40T (3x11-speed) 42T (2x11-speed) 46T (1x11-speed)	42T (2x11-speed) 46T (1x11-speed)
	Min.	40T	40T	40T
Top sprocket	Max.	11T	11T	11T
	Min.	11T	11T	11T
Fluor coated link bushings		4	4	4
Pulley	G pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	Teeth	11	11	11
	Bolts material	Stainless steel	Stainless steel	Stainless steel
	Sunken type pulley bolt	✓	✓	✓
Bracket	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodizing	Anodizing	Anodizing
B-axle	Hollow axle	✓	✓	✓
	Material	Aluminum	Aluminum	Aluminum
B-axle 2	Finish	Anodized	Anodized	Anodized
	Hollow axle	✓	✓	✓
	Material	Aluminum	Aluminum	Aluminum
Bracket body	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel
	Finish	-	-	-
Plate body	Material	CFRP	CFRP	GFRP
	Finish	Painted	Painted	-
Outer link	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted
Inner link	Material	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Painted
Outer plate	Material	CFRP	CFRP	Aluminum
	Finish	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Cable fixing bolt	Material	-	-	-
	Finish	-	-	-
Stroke adjusting screw	Material	-	-	-
	Finish	-	-	-
SD50 port (pcs)		1	1	1
SD300 port (pcs)		0	0	0
SD50 connector (pcs)		0	0	0
SD300 connector (pcs)		0	0	0
Average weight (g)		290	295	319
Note		* w/o Bracket spec available. ** The DI2 system limits cross chain to prevent a chain from getting loose.	* w/o Bracket spec available. ** The DI2 system limits cross chain to prevent a chain from getting loose.	* w/o Bracket spec available. ** The DI2 system limits cross chain to prevent a chain from getting loose.



- SW
- RD
- FD
- SMAD
- SC
- SL
- RD
- FD
- ST
- ST
- SW
- RD
- FD
- SMAD
- SG
- MU
- EW
- EWC
- GM
- WU
- JC
- JC
- BT
- BM
- SMBT
- SMBC
- BCC
- SMPCE
- SMCB
- SMCA
- SMCC

# Front Derailleur

Series		SHIMANO XTR	SHIMANO XTR	SHIMANO DEORE XT
Model no.		FD-M9050	FD-M9070	FD-M8070
Color	1	Series color	Series color	Series color
	2	-	-	-
Speeds	Front	3	2	2
	Rear	11	11	11
Compatible chain		HG-X11	HG-X11	HG-X11
Action	TOP SWING	-	-	-
	Down Swing	✓	✓	✓
	SIDE SWING	-	-	-
Mount	Clamp Band (mm)	28.6	w/ SM-FD905-L, SM-FD905-H	w/ SM-FD905-L, SM-FD905-H
		31.8	w/ SM-FD905-L, SM-FD905-H	w/ SM-FD905-L, SM-FD905-H
		34.9	w/ SM-FD905-L, SM-FD905-H	w/ SM-FD905-L, SM-FD905-H
	With bottom bracket plate	-	-	-
	Without bottom bracket plate	w/ SM-FD905-E	w/ SM-FD905-E*	w/ SM-FD905-E*
	Direct mount	w/ SM-FD905-D	w/ SM-FD905-D*	w/ SM-FD905-D*
	ISCG05 mount			
Cable route type	Dual-Pull			
	Top-Pull exclusive			
	Down-Pull exclusive			
	Front-Pull			
Chain line (mm)		50	48.8*	48.8*
Chain stay angle (deg.)		66 - 69	66 - 69	66 - 69
Top gear teeth		40T	38-34T	38-34T
Total capacity		18T	10T	10T
Applicable Top-Mid tooth difference		10T	-	-
Multi access cable fixing bolt				
Angled stroke adjust bolt				
Angled clamp band design				
Link bushings		7	7	7
Front clamp band	Material			
	Finish			
Rear clamp band, base bracket	Material			
	Finish			
Clamp bolt	Material			
	Finish			
Bottom bracket plate	Material			
	Finish			
Outer link	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Plated
Chain guide	Material	Aluminum	Aluminum	Steel
	Finish	Nickel plated	Nickel plated	Nickel plated
Stroke adjusting screw	Material			
	Finish			
Master unit		-	-	-
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
Average weight (g) (Band type: L size, direct type w/ bolt)		125	112	134
Note			* Compatible with the special crankset which chain line is 3 mm outboard.	* For FC 3 mm outboard spec, 51.8 mm ** Compatible with the special crankset which chain line is 3 mm outboard.

# Mount Adapter for Front Derailleur

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

ARCHIVE

SW

RD

FD

SMAD

SC

SL

RD

FD

ST

ST

SW

RD

FD

SMAD

SG

MU

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

SMPCE

SMCB

SMCA

SMCC

# System Information Display

Series		SHIMANO XTR	SHIMANO
Model no.		SC-M9051	SC-MT800
Compatible system		E-TUBE system	E-TUBE system
Wireless system***		ANT private Bluetooth®LE	ANT private* Bluetooth®LE
Attachment position		Handle bar*	Handle bar**
Display detachable		-	-
Adjust button		✓	✓
Display function***	Gear indicator (Rear)	11	11
	Gear indicator (Front)	1/2/3	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	SM-BCR2
	SYNCHRONIZED SHIFT mode change	✓	✓
Master unit		-	-
Firmware update by E-TUBE PROJECT		✓	✓
SD50 port (pcs)		3	3
SD300 port (pcs)		0	0
SD50 connector (pcs)		0	0
SD300 connector (pcs)		0	0
Average weight (g)		30	30
Note	*2 Spec of clamp band diameter ø31.8 and ø35.	* ANT private has compatibility with ANT+ cycle computer but not freely open profile. ** 2 Spec of clamp band diameter ø31.8 and ø35.0 *** Data of list of "Display function" is sent to other digital device by ANT private.	

# Shifting/Brake Lever (Hydraulic Disc Brake)

Series		SHIMANO GRX	SHIMANO GRX	
Model no.		ST-RX815-R	ST-RX815-L	
Color	1	Series color	Series color	
	2	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever specifications	Front speeds	-	2	
	Rear speeds	11	-	
	Remote switch	✓	✓	
	Master unit	-	-	
	Firmware update by E-TUBE PROJECT	✓	✓	
	Compatible rear derailleur type	Road 11-speed	Road 11-speed	
	Shifting lever position adjust	-	-	
	Multiple input	2 step	-	-
		Hold	✓	✓
	Suspension switch	-	-	
Brake lever specifications	Lever size (Finger)	-	-	
	Brake hose (Kit)	SM-BH90-JK-SSR	SM-BH90-JK-SSR	
	Hose joint	Straight	Straight	
	Brake hose color (kit)	1	Black	Black
		2	-	-
	Recommended brake caliper	BR-RX810	BR-RX810	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral
	Reach adjust	Toolless	-	-
		Tool	✓	✓
	Funnel bleeding	✓	✓	
Free stroke adjust	✓	✓		
SERVO WAVE	✓	✓		
Clamp band	Open clamp	-	-	
	Inner diameter	23.8-24.2	23.8-24.2	
Bracket	Material	CFRP	CFRP	
	Finish	-	-	
Electric button	Material	-	-	
	Finish	-	-	
Shifter Lever body	Main	GFRP	GFRP	
	Release	-	-	
Lever	Material	Aluminum	Aluminum	
	Finish	Painted	Painted	
Master cylinder	Material	CFRP	CFRP	
	Finish	-	-	
SD50 port (pcs)		2	2	
SD300 port (pcs)		0	0	
SD50 connector (pcs)		0	0	
SD300 connector (pcs)		0	0	
Port for remote sprinter shifter (pcs)		0	0	
Average weight (g)		373 (/pair)	373 (/pair)	
Note				



- SW
- RD
- FD
- SMAD
- SC
- SL
- RD
- FD
- ST
- ST
- SW
- RD
- FD
- SMAD
- SG
- MU
- EW
- EWC
- GM
- WU
- JC
- JC
- BT
- BM
- SMBT
- SMBC
- BCC
- SMPCE
- SMCB
- SMCA
- SMCC

## Rear Derailleur

Series		SHIMANO GRX	SHIMANO GRX
Model no.		RD-RX815	RD-RX817
Pulley cage			
Rear speeds		11	11
Top-Normal spring type	SHADOW RD	-	-
	SHADOW RD+	✓	✓
	Double servo	-	-
Max front difference		17T	-
Total capacity		38T	31T
Max. low sprocket		34T	42T
Min. low sprocket		30T	40T
Max. top sprocket		11T	11T
Min. top sprocket		11T	11T
Mount	Riveted adapter available	-	-
	Direct attachment	✓	✓
Fluoroc coated link bushing		4	4
Pulley		13T	11T
Sealed bearing guide pulley		✓	✓
Sealed bearing tension pulley		✓	✓
Bracket body	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Plate body	Material	GFRP	Aluminum
	Finish	Painted	Painted
Outer link	Material	Aluminum	Aluminum
	Finish	Anodized	Painted
Inner link	Material	GFRP	Steel
	Finish	-	GFRP
Outer plate	Material	Aluminum	-
	Finish	Painted	Painted
Inner plate	Material	Aluminum	Aluminum
	Finish	Painted	Painted
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
Average weight (g)		287	318
Note			

## Front Derailleur

Series		SHIMANO GRX	
Model no.		FD-RX815-F	
Color	1	Series Color	
	2	-	
Speeds	Front	2	
	Rear	11	
Compatible chain		HG-EV 11-speed/ HG-X11	
Action	TOP SWING	-	
	Down Swing	✓	
Mount	Clamp Band (mm)	28.6	-
		31.8	-
		34.9	-
	Brazed-On	✓	
Chain line (mm)		46	
Chain stay angle (deg.)		61-66	
Top gear teeth		46-48T	
Total capacity		17T	
Link bushings		2	
Front clamp band	Material	-	
	Finish	-	
Rear clamp band, base bracket	Material	Aluminum	
	Finish	Painted	
Outer link	Material	CFRP	
	Finish	Painted	
Inner link	Material	Steel	
	Finish	Plated	
Chain guide	Material	Steel	
	Finish	Chrome plated	
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/ bolt)		135	
Note			

# Shifting/Brake Lever

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Model no.		ST-R9150-R	ST-R9150-L	ST-R9160-R	ST-R9160-L	ST-R8050-R	ST-R8050-L
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER
Shifting lever specifications	Front speeds	-	2	SYNCHRONIZED SHIFT	SYNCHRONIZED SHIFT	-	2
	Rear speeds	11	-	Outward (default)	Inward (default)	11	-
	Remote switch	✓	✓	-	-	✓	✓
Brake lever specifications	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
	SLR-EV	✓	✓	✓	✓	✓	✓
Bracket	Material	CFRP	CFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Electric button	Material	GFRP	GFRP	CFRP	CFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Lever	Material	CFRP	CFRP	CFRP	CFRP	Aluminum Anodized	Aluminum Anodized
	Finish	Painted	Painted	Painted	Painted	-	-
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 remote sprinter shifter (pcs)		1	1	0	0	1	1
Average weight (g)		230	230 (/pair)	127 (/pair)	127 (/pair)	295 (/pair)	295 (/pair)
Note		-	-	-	-	-	-

Series		SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Model no.		ST-R8060-R	ST-R8060-L	ST-6870	ST-6871
Lever type		TT/Triathlon DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER	DUAL CONTROL LEVER	TT/Triathlon DUAL CONTROL LEVER
Shifting lever specifications	Front speeds	SYNCHRONIZED SHIFT	SYNCHRONIZED SHIFT	2	2
	Rear speeds	Outward (default)	Inward (default)	11	11
	Remote switch	-	-	-	-
Brake lever specifications	Reach adjust	✓	✓	✓	✓
	Clamp band (mm)	INNER DIA. 19.0 - 22.5	INNER DIA. 19.0 - 22.5	23.8/24.2	INNER DIA. 19.0 - 22.5
	SLR-EV	✓	✓	✓	✓
Bracket	Material	GFRP	GFRP	GFRP	CFRP
	Finish	-	-	-	-
Electric button	Material	CFRP	CFRP	GFRP	GFRP
	Finish	-	-	-	-
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Anodized
Master unit		-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓
SD50 port (pcs)		1	1	4	0
SD300 port (pcs)		0	0	0	0
SD50 connector (pcs)		0	0	0	2
SD300 connector (pcs)		0	0	0	0
Port for remote sprinter shifter (pcs)		0	0	2	0
Average weight (g)		138 (/pair)	138 (/pair)	303.2 (/pair)	148 (/pair)
Note		-	-	-	-

# Shifting/Brake Lever (Hydraulic Disc Brake)

Series		DURA-ACE	DURA-ACE	DURA-ACE	DURA-ACE	SHIMANO ULTEGRA	SHIMANO 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	
Shifting lever specifications	Front speeds	-	2	-	2	-	2	
	Rear speeds	11	-	11	-	11	-	
	Remote switch	✓	✓	-	-	✓	✓	
	Master unit	-	-	-	-	-	-	
	Firmware update by E-TUBE PROJECT	✓	✓	✓	✓	✓	✓	
	Compatible rear derailleur type	Road 11-speed	Road 11-speed	Road 11-speed	Road 11-speed	Road 11-speed	Road 11-speed	
	Shifting lever position adjust	-	-	-	-	-	-	
	Multiple input	2 step	-	-	-	-	-	-
		Hold	✓	✓	✓	✓	✓	✓
	Suspension switch	-	-	-	-	-	-	
Brake lever specifications	Lever size (Finger)	-	-	-	-	-	-	
	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	
	Brake fluid	SHIMANO Mineral Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
		Toolless	-	-	-	-	-	-
	Reach adjust	Tool	✓	✓	✓	✓	✓	✓
		Funnel bleeding	✓	✓	✓	✓	✓	✓
	Free stroke adjust	✓	✓	-	-	✓	✓	
SERVO WAVE	-	-	-	-	-	-		
Clamp band	Open clamp	-	-	-	-	-	-	
	Inner diameter	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	
Bracket	Material	CFRP	CFRP	Aluminum	Aluminum	CFRP	CFRP	
	Finish	-	-	-	-	-	-	
Electric button	Material	-	-	CFRP	CFRP	-	-	
	Finish	-	-	-	-	-	-	
Shifter Lever body	Main	CFRP	CFRP	-	-	GFRP	GFRP	
	Release	-	-	-	-	-	-	
Lever	Material	Carbon	Carbon	CFRP	CFRP	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Master cylinder	Material	CFRP	CFRP	-	-	CFRP	CFRP	
	Finish	-	-	-	-	-	-	
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 remote sprinter shifter (pcs)		0	0	0	0	0	0	
Average weight (g)		160	160	99	99	180	180	
Note								

# Shifting Switch

Series	SHIMANO	DURA-ACE	SHIMANO	SHIMANO	SHIMANO
Model no.	SW-R9150	SW-R9160	SW-R671	SW-R610	SW-R600
Switch type	Option SW, pair	Bar-end SW for TT, pair	Remote Triathlon shifter Current 2 button design, pair	Remote sprinter shifter, pair	Remote satellite shifter (Climbing shifter)
Position	On road Bar	DH Bar	DH Bar	Anywhere	Anywhere
Compatible electric wire	EW-SD50	EW-SD50	EW-SD50	-	EW-SD50
Master unit	-	-	-	-	-
Firmware update by E-TUBE PROJECT	✓	✓	✓	-	✓
SD50 port (pcs)	0	2	0	0	0
SD300 port (pcs)	0	0	0	0	0
SD50 connector (pcs)	2	0	2	0	1
SD300 connector (pcs)	0	0	0	0	0
Connector for remote sprinter shifter (pcs)	0	0	0	2	0
Port for remote sprinter shifter (pcs)	0	0	0	0	0
Average weight (g)	12 (/pair)	40 (/pair)	100 (/pair)	5.8 (/pair)	19 (/pc)
Note					

ARCHIVE

SW

RD

FD

SMAD

SC

SL

RD

FD

ST

ST

SW

RD

FD

SMAD

SG

MU

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

SMPCE

SMCB

SMCA

SMCC

# Rear Derailleur

Series		DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA	SHIMANO ULTEGRA RX
Model no.		RD-R9150	RD-R8050-SS	RD-R8050-GS	RD-6870-SS	RD-6870-GS	RD-RX805-GS
Pulley cage		SS	SS	GS	SS	GS	GS
Rear speeds		11	11	11	11	11	11
Top-Normal spring type	SHADOW RD	✓	✓	✓	-	-	-
	SHADOW RD+	-	-	-	-	-	✓
	Double servo	-	-	-	✓	✓	-
Max front difference		16T	16T	16T	16T	16T	16T
Total capacity		33T	33T	37T	33T	37T	39T
Max. low sprocket		30T	30T	34T	28T	32T	34T
Min. low sprocket		25T	25T	28T	23T	28T	28T
Max. top sprocket		14T	14T	12T	14T	12T	11T
Min. top sprocket		11T	11T	11T	11T	11T	11T
Mount	Riveted adapter available	-	-	-	-	-	-
	Direct attachment	✓	✓*	✓*	✓	✓	✓*
Fluoric coated link bushing		4	4	4	4	4	4
11T pulley		✓	✓	✓	✓	✓	11T
Sealed bearing guide pulley		✓	✓	✓	✓	✓	✓
Sealed bearing tension pulley		✓	✓	✓	✓	✓	✓
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Plate body	Material	CFRP	GFRP	GFRP	CFRP	CFRP	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted	Painted	Painted
Inner link	Material	CFRP	GFRP	GFRP	Steel	Steel	GFRP
	Finish	Painted	-	-	Painted	Painted	-
Outer plate	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	CFRP	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Master unit		-	-	-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
SD50 port (pcs)		1	1	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
Average weight (g)		197	240	247	257	268	280
Note		w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available			* w/o Bracket spec. available

# Front Derailleur

Series		DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Model no.		FD-R9150	FD-R8050	FD-6870-F
Color	1	Series color	Series Color	Series color
	2	-	-	-
Speeds	Front	2	2	2
	Rear	11	11	11
Compatible chain		HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11	HG-EV 11-speed/ HG-X11
Action	TOP SWING	-	-	-
	Down Swing	✓	✓	✓
Mount	Clamp Band (mm)	28.6	-	-
		31.8	-	-
		34.9	-	-
	Brazed-On	✓	✓	✓
Chain line (mm)		43.5	43.5	43.5
Chain stay angle (deg.)		61 - 66	61 - 66	61 - 66
Top gear teeth		50T-55T	46T-53T	46T-53T
Total capacity		16T	16T	16T
Link bushings		4	2	4
Front clamp band	Material	-	-	-
	Finish	-	-	-
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted
Outer link	Material	CFRP	CFRP	CFRP
	Finish	Painted	Painted	Painted
Inner link	Material	Titanium	Steel	Steel
	Finish	-	Plated	Plated
Chain guide	Material	Aluminum	Steel	Steel
	Finish	Nickel plated	Chrome plated	Chrome plated
Master unit		-	-	-
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
Average weight (g) (Band type: L size, direct type w/ bolt)		104	132	138.5
Note				

# 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 (mm)	28.6	-	✓*
	31.8	-	✓
	34.9	✓	-
Note			* w/ Multi Clamp Band

# Internal Geared Hub

Series		SHIMANO ALFINE	SHIMANO ALFINE	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Model no.		SG-S7051-11	SG-S7051-8	SG-C6061-8V	SG-C6061-8R	SG-C6061-8C	SG-C6061-8D
Function name		INTER-11	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	CENTER LOCK disc brake	V-BRAKE	INTER-M	Coaster Brake	CENTER LOCK disc brake
	Recommended Model	-	-	-	-	-	-
Speeds		11	8	8	8	8	8
Gear ratio	Total	409%	307%	307%	307%	307%	307%
	1	0.527	0.527	0.527	0.527	0.527	0.527
	2	0.681	0.644	0.644	0.644	0.644	0.644
	3	0.770	0.748	0.748	0.748	0.748	0.748
	4	0.878	0.851	0.851	0.851	0.851	0.851
	5	0.995	1	1	1	1	1
	6	1.134	1.223	1.223	1.223	1.223	1.223
	7	1.292	1.419	1.419	1.419	1.419	1.419
	8	1.462	1.615	1.615	1.615	1.615	1.615
	9	1.667	-	-	-	-	-
	10	1.888	-	-	-	-	-
11	2.153	-	-	-	-	-	
Shifting Structure		DI2	DI2	DI2	DI2	DI2	DI2
Silent clutch		✓	✓	✓	✓	✓	✓
Gear change support mechanism		✓	✓	✓	✓	✓	✓
Shifting POWER MODULATOR		✓	✓	✓	✓	✓	✓
Driving efficiency		HIGH	High	High	High	High	High
w/ Left hand dust cap		-	-	✓	-	-	-
O.L.D. (mm)		135	135	135	135	135	135
Spoke size		#13 / #14	#13 / #14	#13 / #14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	✓	-	-	-	-	-
	32H	✓	✓	-	-	✓	✓
	36H	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	-	-	-
	184	-	-	-	-	-	-
	187	✓	✓	✓	✓	✓	✓
	193	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Flange distance (mm)		57.3	57.3	58.3	58.3	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	3.1	3.7	3.4
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	1660	2040	1680
Note		-	-	-	-	-	-

# Internal Geared Hub

Series		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Model no.		SG-C6061-8CD	SG-C7050-5V	SG-C7050-5R	SG-C7050-5C	SG-C7050-5D
Function name		INTER-8	INTER-5E	INTER-5E	INTER-5E	INTER-5E
Color	1	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black
	3	-	-	-	-	-
Brake type	Mount Type	Coaster and Special disc brake mount for SM-RTC60	V-BRAKE	INTER-M	Coaster brake	CENTER LOCK disc brake
	Recommended Model	-	-	BR-C6000 BR-C3010 BR-C3000	-	-
Speeds		8	5	5	5	5
Gear ratio	Total	307%	263%	263%	263%	263%
	1	0.527	1	1	1	1
	2	0.644	1.277	1.277	1.277	1.277
	3	0.748	1.622	1.622	1.622	1.622
	4	0.851	2.07	2.07	2.07	2.07
	5	1	2.63	2.63	2.63	2.63
	6	1.223	-	-	-	-
	7	1.419	-	-	-	-
	8	1.615	-	-	-	-
	9	-	-	-	-	-
	10	-	-	-	-	-
11	-	-	-	-	-	
Shifting Structure		DI2	DI2	DI2	DI2	DI2
Silent clutch		✓	✓	✓	✓	✓
Gear change support mechanism		✓	✓	✓	✓	✓
Shifting POWER MODULATOR		✓	✓	✓	✓	✓
Driving efficiency		High	High	High	High	High
w/ Left hand dust cap		-	✓	-	-	-
O.L.D. (mm)		135	135	135	135	135
Spoke size		#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)		58.3	58.3	58.3	58.3	57.3
Flange diameter (mm)		105.2	105.2	105.2	105.2	105.2
Flange width (mm)	Right	3.2	3.2	3.2	3.2	3.2
	Left	3.2	3.2	3.2	3.2	3.2
Offset (mm)		2.7	3.7	3.7	3.7	3.2
P.C.D Left / Right. (mm)		92.6	92.6	92.6	92.6	92.6
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Average weight (g)		2080	1670	1670	1970	1670
Note						

SW

RD

FD

SMAD

SC

SL

RD

FD

ST

ST

SW

RD

FD

SMAD

SG

MU

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

SMPCE

SMCB  
SMCA

SMCC

# Motor Unit

Series		SHIMANO
Model no.		MU-UR500
Color	1	Standard
	2	-
	3	-
Compatible internal geared hub		SG-S705 SG-S7051 SG-C6060 SG-C6061 SG-C7050
Compatible speed		11/8/5-speed
Master unit		-
Firmware update by E-TUBE PROJECT		✓
SD50 port (pcs)		1
SD300 port (pcs)		0
SD50 connector (pcs)		0
SD300 connector (pcs)		0
Note		-

ARCHIVE

## Electric Wire

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

## Cord Cover

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

## Grommet

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

## Wireless Unit

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 (QTY)	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 adapter	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-DN110-A	BT-DN110	SM-BTR1
Type	Built-in battery	Built-in battery	External
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	SM-BCR2	SM-BCR2	SM-BCR1
Master unit	✓	✓	-
Firmware update by E-TUBE PROJECT	✓	✓	-
SD50 port (pcs)	1	1	0
SD300 port (pcs)	0	0	0
SD50 connector (pcs)	0	0	0
SD300 connector (pcs)	0	0	0
Average weight (g)	50	50	70
Note	Type1: w/ Recycle mark Type2: w/o Recycle mark Type3: for Korean market	Type1: w/ Recycle mark Type2: w/o Recycle mark Type3: for Korean market	Type1: w/ Recycle mark Type2: w/o Recycle mark

## Battery Mount

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	BM-DN100-S	BM-DN100-L	BM-DN100-I
Specification	Short size battery mount	Long size battery mount	Long size battery mount
Wire routing	External/Internal	External	Internal
Master unit	✓	✓	✓
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
Note	-	-	-

## Battery Case

Series		SHIMANO
Model no.		SM-BTC1
Specification	w/ Junction	✓ *
	w/o Junction	✓
Mount		Bolt 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	SHIMANO
Model no.	SM-BCR2	SM-BCR1
Compatible battery	BT-DN110 BT-DN110-A	SM-BTR1
Charging cord	Including SM-BCR2	SM-BCC1
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	U.K
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	

# PC Linkage Device

Series	SHIMANO
Model no.	SM-PCE02
USB port (pcs)	Micro: 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	

SW

RD

FD

SMAD

SC

SL

RD

FD

ST

ST

SW

RD

FD

SMAD

SG

MU

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

SMPCE

SMCB

SMCA

SMCC

## Cord Band

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

## Cord Crip

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

ARCHIVE

	<i>Page</i>	
<b>Cycle Computer</b>	<b>244</b>	<b>SC</b>
<b>Switch Unit</b>	<b>246</b>	<b>SW</b>
<b>Drive Unit</b>	<b>248</b>	<b>DU</b>
<b>Drive Unit Cover</b>	<b>250</b>	<b>SMDU</b>
<b>Speed Sensor Unit</b>	<b>251</b>	<b>SMDU</b>
<b>Disc Brake Rotor</b>	<b>251</b>	<b>RT</b>
<b>Crankarm</b>	<b>252</b>	<b>FC</b>
<b>Chainring Unit</b>	<b>253</b>	<b>SMCR</b>
<b>Chain Device</b>	<b>255</b>	<b>SMCD</b>
<b>Battery</b>	<b>256</b>	<b>BT</b>
<b>Battery Mount</b>	<b>258</b>	<b>BM</b>
<b>Satellite System ON/OFF Switch</b>	<b>259</b>	<b>EWSW</b>
<b>Satellite Charging Port</b>	<b>259</b>	<b>EWCP</b>
<b>Battery Charger</b>	<b>260</b>	<b>EC</b>
<b>DI2 Adapter</b>	<b>263</b>	<b>EWEX</b>
<b>Chain Case Fixing Bolt</b>	<b>263</b>	<b>SMDU</b>

# Cycle Computer

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		SC-EM800	SC-E8000	SC-E7000	SC-E6100	SC-E5000	SC-E5003	
Color	1	Standard	Standard	Standard	Standard	Black	Black	
	2	-	-	-	-	-	-	
	3	-	-	-	-	-	-	
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	ANT private Bluetooth®LE	-	-	
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓	
SD50 port (pcs)		0	4	4	3	1	0	
SD300 port (pcs)		4	0	0	0	0	1	
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	1.39	2.7	1.4	1.4	
Beep		✓	✓	✓	✓	-	-	
Display Detachable		✓	-	-	✓	-	-	
Display Fixation		✓	✓	✓	-	✓	✓	
Display Change Button		✓	✓	✓	-	✓	✓	
Assist mode change (w/o switch unit)		✓	-	✓	✓	✓	✓	
Reset button		-	-	-	-	-	-	
Inside battery		✓	✓	✓	✓	-	-	
System on/off button		-	-	-	✓	-	-	
Light on/off button		-	-	-	✓	✓	✓	
Assist on/off 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 Out put Power	-	-	-	-	-	-	
	Calorie	-	-	-	-	-	-	
	Shifting advice	-	-	-	✓	-	-	
	Maintenance alert	✓	-	✓	✓	*** ✓	*** ✓	
	ECO cruising mode	-	-	-	-	-	-	
	Bluetooth®LE connection status	✓	-	✓	✓	-	-	
	Setting menu	Trip Distance reset	✓	✓	✓	✓	✓	✓
		Odometer reset	✓	-	-	-	-	-
		Setting clear	✓	-	-	-	-	-
		Clock adjustment	✓	✓	✓	✓	-	-
Start mode		-	-	✓	✓	*** -	*** -	
Shifting advise		-	-	-	-	-	-	
ECO cruising setting		-	-	-	-	-	-	
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		✓	✓	-	-	-	-	
Long Distance mode on/off		-	-	-	-	-	-	
Riding Characteristic Change		-	-	-	-	-	-	
Assist Customize	✓	-	-	-	-	-		
Language	English	✓	✓	✓	✓	✓	✓	
	German	✓	✓	✓	✓	-	-	
	Dutch	✓	✓	✓	✓	-	-	
	French	✓	✓	✓	✓	-	-	
	Spanish	✓	✓	✓	✓	-	-	
	Italian	✓	✓	✓	✓	-	-	
Average weight (g)		41	41	32	110	-	-	
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 ø35.0 * In case of SEIS ** Option by E-TUBE PROJECT	* In case of SEIS ** Option by E-TUBE PROJECT	* 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	

# Cycle Computer

Series		SHIMANO	
Model no.		EW-EN100	
Color	1	Standard	
	2	-	
	3	-	
Mount position	Center on handlebar	-	
	Right on handlebar	-	
	Others	✓	
Master unit		-	
Wireless system		ANT private Bluetooth®LE	
Firmware update by E-TUBE PROJECT		✓	
SD50 port (pcs)		2	
SD300 port (pcs)		0	
SD50 connector (pcs)		0	
SD300 connector (pcs)		0	
Back Light		-	
LCD size (inch)		-	
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 on/off 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 Out put Power	-	
	Calorie	-	
	Shifting advice	-	
	Maintenance alert	-	
	ECO cruising mode	-	
	Bluetooth®LE connection status	-	
	Setting menu	Trip Distance reset	-
		Odometer reset	-
		Setting clear	-
		Clock adjustment	-
Start mode		-	
Shifting advise		-	
ECO cruising setting		-	
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		-	
Long Distance mode on/off	-		
Riding Characteristic Change	-		
Assist Customize	-		
Language	English	-	
	German	-	
	Dutch	-	
	French	-	
	Spanish	-	
Average weight (g)	6		
Note	* Set by switch operation in case of SEIS		

SC

SW

DU

SMDU

SMDU

RT

FC

SMCR

SMCD

BT

BM

EWSW

EWCP

EC

EWEX

SMDU

# Switch Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SW-EM800-L	SW-E8000-L	SW-E7000-L	SW-E7000-R	SW-E6010-L	SW-E6010-R
Switch type		-	FIREBOLT	-	-	-	-
Color	1	Standard	Standard	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Usage		For assist	For assist	For assist	For SEIS shift	For assist	For SEIS shift
Right SW		-	-	-	✓	-	✓
Left SW		✓	✓	✓	-	✓	-
Button numbers (pcs)		2	2	2	2	3	3
Master unit		-	-	-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
SD50 port (pcs)		0	1	0	0	0	0
SD300 port (pcs)		1	0	0	0	0	0
SD50 connector (pcs)		0	0	1	1	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	* ✓	-	* ✓	** ✓	-	** ✓
Average weight (g)		24.5	93.2	** 23.9	** 23.9	31.3	31.3
Note		* Set by E-TUBE PROJECT	* By Setting Menu	* Set by E-TUBE PROJECT ** Cable length 700 mm spec. Cable length: 400 mm, 300 mm, 700 mm	* Available for rear derailleur ** Cable length 700 mm spec. Cable length: 400 mm, 300 mm, 700 mm	* By Setting Menu	** Available for rear derailleur

# Switch Unit

Series		SHIMANO
Model no.		SW-E6000
Switch type		-
Color	1	Gray
	2	Black
	3	-
Usage		* For assist or SEIS shift
Right SW		✓
Left SW		✓
Button numbers (pcs)		3
Master unit		-
Firmware update by E-TUBE PROJECT		✓
SD50 port (pcs)		0
SD300 port (pcs)		0
SD50 connector (pcs)		1
SD300 connector (pcs)		0
System On-Off		-
Assist Mode Change		✓
Display change		* ✓
Automatic/Manual Change		* ✓
Light On-Off		* ✓
Multiple input	2 step	-
	Hold	-
Average weight (g)		25.5
Note		* Set by E-TUBE PROJECT

ARCHIVE

SC

SW

DU

SMDU

SMDU

RT

FC

SMCR

SMCD

BT

BM

EWSW

EWCP

EC

EWEX

SMDU

# Drive Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-EP800	DU-E8000	DU-E8080	DU-E7000	DU-E6100	DU-E6110
Color	1	Standard	Black	Black	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Compatible Brake type		Disc brake	Disc brake, V-BRAKE	Disc brake	Disc brake, V-BRAKE	V-BRAKE, Roller brake, Disc brake	Coaster brake
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position		Mid ship	Mid ship	Mid ship	Mid ship	Mid ship	Mid ship
Compatible Wheel Size (mm)		1,300 - 3,000	*1,300 - 3,000	*1,300 - 3,000	1,300 - 3,000	1,300 - 3,000	1,300 - 3,000
Continuous Rated Power (Watt)		250	250	250	250	250	250
Maximum torque (Nm)		85	70	70	60	60	60
Rated Voltage		DC 36V	DC 36 V	DC 36 V	DC 36 V	DC 36 V	DC 36 V
DI2 compatible	Internal geared hub	✓	-	-	-	✓	✓
	Rear derailleur	✓	*✓	*✓	✓	✓	-
Maximum support bike speed	24 km/h	-	-	✓	*✓	*✓	-
	25 km/h	**✓	*✓	-	*✓	*✓	*✓
	20 mph	**✓	*✓	-	*✓	*✓	*✓
	Other	-	-	-	-	-	-
	Adjustment	-	-	-	-	*✓	*✓
Riding Characteristics	Dynamic	-	*✓	-	*✓	-	-
	Moderate	-	-	-	-	-	-
	Explorer	-	*✓	-	*✓	-	-
	Customize	-	*✓	-	*✓	-	-
	Sportive/Light off-road	-	-	-	-	*✓	*✓
	Comfort	-	-	✓	-	*✓	*✓
	Profile 1	✓	-	-	-	-	-
Profile 2	✓	-	-	-	-	-	
Assist mode	BOOST	✓	✓	✓	✓	✓	✓
	HIGH	-	-	✓	-	✓	✓
	TRAIL	✓	✓	-	✓	-	-
	NORMAL	-	-	✓	-	✓	✓
	ECO	✓	✓	✓	✓	✓	✓
Power supply for front light		DC 12 V	DC 6 V	DC 6 V	DC 12 V	DC 12 V	DC 12 V
Power supply for rear light		DC 12 V	DC 6 V	DC 6 V	DC 12 V	DC 12 V	DC 12 V
Maximum current supply front and rear light total (A)		2.0	2	2	2	2	2
Power supply port for electric devices		-	-	-	-	-	-
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
Port for Light (pcs)		-	-	-	-	-	-
Terminal for Light (pcs)		1	1	1	1	1	1
Port for Electric devices (pcs)		-	-	-	-	-	-
Port for Speed Sensor (pcs)	SD50 type	0	1	1	1	1	1
	SD300 type	1	0	0	0	0	0
Chain case compatible		-	-	-	-	✓	✓
Chain device compatible		✓	✓	✓	✓	-	-
Torque sensor		✓	✓	✓	✓	✓	✓
Crank arm position sensor		✓	✓	✓	✓	✓	✓
Bike speed sensor		***✓	**✓	**✓	**✓	**✓	**✓
Cadence sensor		✓	✓	✓	✓	✓	✓
Walk assist function	On/Off	**✓	✓	-	*✓	*✓	*✓
	Standard	-	✓	-	-	-	-
	Intelligent	*✓	***✓	-	**✓	***✓	***✓
	Quick	✓	✓	-	✓	✓	✓
Automatic shift	Internal geared hub 11-speed	-	-	-	-	-	-
	Internal geared hub 8-speed	*✓	-	-	-	✓	✓
	Internal geared hub 7-speed	-	-	-	-	-	-
	Internal geared hub 5-speed (INTER-5E)	*✓	-	-	-	✓	✓
	Rear derailleur	-	-	-	-	-	-
SYMPHOMATIC	Internal geared hub	*✓	-	-	-	✓	✓
	Rear derailleur	-	-	-	-	-	-
Electronic shift by drive unit control		-	-	-	-	-	-
Compatible bottom bracket type		24 mm Axle Serration	24 mm Axle Serration	24 mm Axle Serration	24 mm Axle Serration	24 mm Axle Serration	24 mm Axle Serration
Drive unit fixing bolt (pcs)		6	-	-	-	-	-
Average weight (kg)		2.6	2.88	2.89	2.79	2.76	2.7
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	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** Only in combination with DI2

# Drive Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-E6180	DU-E5000	DU-E5080	DU-E5080-H
Color	1	Standard	Standard	Standard	Standard
	2	-	-	-	-
	3	-	-	-	-
Compatible Brake type		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
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position		Mid ship	Mid ship	Mid ship	Mid ship
Compatible Wheel Size (mm)		1,300 - 3,000	1,300 - 3,000	1,300 - 3,000	1,300 - 3,000
Continuous Rated Power (Watt)		250	250	250	250
Maximum torque (Nm)		60	40	40	40
Rated Voltage		DC 36 V	DC 36 V	DC 36 V	DC 36 V
DI2 compatible	Internal geared hub	✓	✓	✓	✓
	Rear derailleur	✓	✓	✓	✓
Maximum support bike speed	24 km/h	✓	-	✓	✓
	25 km/h	-	*✓	-	-
	20 mph	-	*✓	-	-
	Other	-	-	-	-
	Adjustment	*✓	*✓	*✓	*✓
Riding Characteristics	Dynamic	-	-	-	-
	Moderate	-	-	-	-
	Explorer	-	-	-	-
	Customize	-	-	-	-
	Sportive/Light off-road	*✓	-	-	✓
	Comfort	*✓	✓	✓	-
	Profile 1	-	-	-	-
Profile 2	-	-	-	-	
Assist mode	BOOST	-	-	-	-
	HIGH	✓	✓	✓	✓
	TRAIL	-	-	-	-
	NORMAL	✓	✓	✓	✓
	ECO	✓	✓	✓	✓
Power supply for front light		DC 12 V	DC 12 V	DC 12 V	DC 12 V
Power supply for rear light		DC 12 V	DC 12 V	DC 12 V	DC 12 V
Maximum current supply front and rear light total (A)		2	2	2	2
Power supply port for electric devices		-	-	-	-
Safe way home function		✓	✓	✓	✓
Communication		E-TUBE	E-TUBE	E-TUBE	E-TUBE
Master unit		✓	✓	✓	✓
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓
SD50 port (pcs)		2	1	1	1
SD300 port (pcs)		0	0	0	0
SD50 connector (pcs)		0	0	0	0
SD300 connector (pcs)		0	0	0	0
Port for Light (pcs)		-	-	-	-
Terminal for Light (pcs)		1	1	1	1
Port for Electric devices (pcs)		-	-	-	-
Port for Speed Sensor (pcs)	SD50 type	1	1	1	1
	SD300 type	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	-	***✓	-	-
Automatic shift	Quick	-	✓	-	-
	Internal geared hub 11-speed	-	-	-	-
	Internal geared hub 8-speed	✓	✓	✓	✓
	Internal geared hub 7-speed	-	-	-	-
	Internal geared hub 5-speed (INTER-5E)	✓	✓	✓	✓
SYMPHOMATIC	Rear derailleur	-	-	-	-
	Internal geared hub	✓	✓	✓	✓
Electronic shift by drive unit control		-	✓	✓	✓
Compatible bottom bracket type		24 mm Axle Serration	Square type	Square type	Square type
Drive unit fixing bolt (pcs)		-	-	-	-
Average weight (kg)		2.81	2.38	2.38	2.38
Note		* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11 *** Only in combination with DI2	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11	* 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
- EWEX
- SMDU

# Drive Unit Cover

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DC-EP800-A	DC-EP800-B	DC-EP800-G	SM-DUE80-A	SM-DUE80-B	SM-DUE70-A
Color	1	Standard	Standard	Standard	Gray	Gray	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Cover	Right	-	-	-	✓	✓	✓
	Left	✓	✓	-	✓	✓	✓
	Bottom	-	-	✓	-	-	-
Available DU angle (deg.)		0 - 60	0 - 60	0 - 60	0 - 60	0 - 60	0 - 60
Note		-	-	-	Standard cover	Mount bolt cover	-

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-DUE70-B	SM-DUE70-C	SM-DUE61-T	SM-DUE61-TC	SM-DUE61-C	SM-DUE61-CC
Color	1	Standard	Standard	Standard	Standard	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Cover	Right	✓	-	✓	✓	✓	✓
	Left	✓	✓	✓	✓	✓	✓
	Bottom	-	-	-	-	-	-
Available DU 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-DUE60	SM-DUE60-45	SM-DUE60-A	SM-DUE60-45A	SM-DUE50-T	SM-DUE50-TC
Color	1	Gray	Gray	Gray	Gray	Standard	Standard
	2	Black	Black	Black	Black	-	-
	3	-	-	-	-	-	-
Cover	Right	✓	✓	✓	✓	✓	-
	Left	-	-	-	-	✓	✓
	Bottom	-	-	-	-	-	-
Available DU angle (deg.)		0	45	0	45	0 - 60	0 - 60
Note		-	-	For internal cable routing	For internal cable routing	-	-

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

# Speed Sensor Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EW-SS301	EW-SS300	SM-DUE11	SM-DUE10
Brake Spec	Disc	✓	✓	✓	✓
	Rim	-	✓	-	✓
Color	1	Black	Black	Standard	Standard
	2	-	-	-	-
	3	-	-	-	-
SD50 connector (pcs)		0	0	1	1
SD300 connector (pcs)		1	1	0	0
Cable length (mm)	340	-	✓	-	✓
	540	-	✓	-	✓
	760	✓	✓	✓	✓
	1400	✓	✓	-	✓
Note		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	203 mm	✓*	✓*	✓*	✓*	
	180 mm	✓*	✓*	✓*	✓*	
	160 mm	✓*	✓*	✓*	✓*	
	140 mm	-	-	-	-	
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 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)		154 (203 mm) 140 (180 mm) 113 (160 mm)	166 (203 mm) 140 (180 mm) 113 (160 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
- EWEX
- SMDU

# Crankarm

Series		SHIMANO	SHIMANO DEORE XT	SHIMANO	SHIMANO DEORE XT	SHIMANO	SHIMANO
Model no.		FC-EM900	FC-M8150	FC-EM600	FC-M8050	FC-E8050	FC-E8000
Color	1	Black	Series Color	Black	Series color	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Crankarm type	HOLLOWTECH	✓	✓	-	✓	✓	-
	Solid	-	-	✓	-	-	✓
Q factor (mm)		177 (DU-EP800)	177 (DU-EP800)	177 (DU-EP800)	177 180 *	177 180 *	177 180 *
Chain case compatible		-	-	-	✓ *	✓ *	✓ *
Crankarm length (mm)	175	✓	✓	✓	✓	✓	✓
	170	✓	✓	✓	✓	✓	✓
	165	✓	✓	✓	✓	-	✓
	160	✓	✓	✓	-	-	✓
	Others	-	-	-	-	-	-
Crankarm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
BB type		24 mm Axle Serration	24 mm axle serration	24 mm axle serration			
Average weight (g)		-	-	-	-	-	-
Note			-	-	* In case with DU-E6100/E6110/E6180/E7000	* In case with DU-E6100/E6110/E6180/E7000	* In case with DU-E6100/E6110/E6180/E7000

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-E6100	FC-E6010	FC-E5000	FC-E5010
Color	1	Silver	Black	Silver	Standard
	2	Black	Gray	-	-
	3	-	-	-	-
Crankarm type	HOLLOWTECH	-	-	-	-
	Solid	✓	✓	✓	✓
Q factor (mm)		180	213	185	185
Chain case compatible		✓	✓	✓	✓
Crankarm length (mm)	175	✓	✓	✓	✓
	170	✓	✓	✓	✓
	165	-	-	✓	✓
	160	-	-	-	-
	Others	-	-	-	-
Crankarm	Material	Aluminium	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted
BB type		24 mm axle serration	Square type	Square type	Square type
Average weight (g)		-	-	-	-
Note		-	-	-	-

# Chainring Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-CRE80-12-B	SM-CRE80-12-SB	SM-CRE80-B	SM-CRE80-R	SM-CRE80	SM-CRE70-12-B
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Gear speed		1	1	1	1	1	1
Rear speed	12-speed	✓	✓	-	-	-	✓
	11-speed	-	-	*✓	*✓	*✓	-
	10-speed	-	-	*✓	*✓	*✓	-
	9-speed	-	-	-	-	-	-
	Single	-	-	-	-	-	-
DYNAMIC CHAIN ENGAGEMENT Plus		✓	✓	✓	-	✓ (38T, 34T)	-
Chainring teeth	47T	-	-	-	✓	-	-
	44T	-	-	-	-	✓	-
	42T	-	-	-	-	-	-
	38T	✓	-	✓	-	✓	-
	36T	✓	✓	-	-	-	✓
	34T	✓	✓	✓	-	✓	-
	Others	-	-	-	-	-	-
Chain guard type	Double	-	-	-	-	**✓	-
	Single	-	-	-	-	-	-
	w/o CG	✓	✓	✓	✓	✓	✓
Chainring fixing lock nut		Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit	Included in drive unit
Arm cover outer diameter (mm)		-	-	-	-	-	-
Chain device compatible		✓	✓	✓	SM-CDE80 (Frame mount)	✓	✓
Chain case compatible		-	-	-	-	-	-
Chain line (mm)	56.5	-	✓	-	-	-	-
	53	✓	-	✓	-	-	✓
	50	-	-	-	✓	✓	-
	48	-	-	-	-	-	-
	46.5	-	-	-	-	-	-
Belt line (mm)	43	-	-	-	-	-	-
P.C.D. (mm)		104	104	104	104	104	104
Chainring	Material	Steel	Steel	Steel	Aluminum	Steel	Steel
	Finish	Plated	Plated	Plated	Anodized	Plated	Painted
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Chainring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	SP Black	SP Black	SP Black	SP Black	SP Black	SP Black
Spider/Gear arms		4	4	4	4	4	4
Average weight (g)		-	-	-	-	-	-
Note		Compatible chain CN-M9100 CN-M8100 CN-M7100	Compatible Chain CN-M9100 CN-M8100 CN-M7100 CN-M6100	* E-BIKE rear derailleur system compatible chain	Compatible Chain CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11 CN-E6090-10	* E-BIKE rear derailleur system compatible chain  ** 44T only	Compatible chain CN-M9100 CN-M8100 CN-M7100

SC

SW

DU

SMDU

SMDU

RT

FC

SMCR

SMCD

BT

BM

EWSW

EWCP

EC

EWEX

SMDU

# Chainring Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-CRE70-12	SM-CRE70-B	SM-CRE70	SM-CRE61	SM-CRE50
Color	1	Black	Black	Black	Dark Gray	Dark Gray
	2	-	-	-	Silver (w/o CG only) *	-
	3	-	-	-	Black (w/o CG only) *	-
Gear speed		1	1	1	1	1
Rear speed	12-speed	✓	-	-	-	-
	11-speed	-	✓	✓	✓	✓
	10-speed	-	✓	✓	✓	✓
	9-speed	-	✓	✓	✓	✓
	Single	-	-	-	✓	✓
DYNAMIC CHAIN ENGAGEMENT Plus		-	-	-	-	-
Chainring teeth	47T	-	-	-	-	-
	44T	-	-	-	✓	✓
	42T	✓	-	-	-	-
	38T	-	-	✓	✓	✓
	36T	-	-	-	-	-
	34T	-	✓	-	-	-
	Others	-	-	-	-	-
Chain guard type	Double	✓	-	✓	✓	✓
	Single	-	-	-	✓	✓
	w/o CG	-	✓	✓	✓	✓
Chainring fixing lock nut		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 CG only)	95 (w/o CG only)
Chain device compatible		-	✓	*✓	-	-
Chain case compatible		-	-	-	✓	✓
Chain line (mm)	56.5	-	-	-	-	-
	53	-	✓	-	-	-
	50	✓	-	✓	-	-
	48	-	-	-	-	-
	46.5	-	-	-	✓	✓
Belt line (mm)	43	-	-	-	-	-
P.C.D. (mm)		104	104	104	-	-
Chainring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Spider arm	Material	Aluminum	Steel	Aluminum	-	-
	Finish	Painted	Painted	Anodized	-	-
Chainring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	SP Black	SP Black	SP Black	-	-
Spider/Gear arms		4	4	4	4	4
Average weight (g)		-	-	-	-	-
Note		Compatible chain CN-M9100 CN-M8100 CN-M7100	Compatible Chain CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11 CN-E6090-10 CN-E6070-9 CN-E6070-9	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	* Color of arm cover	-

# Chain Device

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CD-EM800	SM-CDE80	SM-CDE70
Color	1	Standard	Standard	Standard
	2	-	-	-
	3	-	-	-
Chain line (mm)	56.5	✓	-	-
	53	✓	✓ (w/ Plate type) ✓ (w/o Plate type)	✓
	50	-	- (w/ Plate type) ✓ (w/o Plate type)	-
Chain compatibility	12-Speed	✓	✓	✓
	11-Speed	✓	✓	✓
	10-Speed	-	✓	✓
	9-speed	-	-	✓
Top Gear Teeth	38T	*✓	✓	✓
	36T	✓	✓	✓
	34T	✓	✓	✓
Assumed Rear Sprocket Teeth	11-36T	-	✓	✓
	11-40T	-	✓	✓
	11-42T	-	✓	✓
	11-46T	-	✓	✓
	10-45T	✓	✓	✓
	10-51T	✓	✓	✓
	Others	-	-	-
Direct Mount to Drive Unit		✓	✓ (w/ Plate type) - (w/o Plate type)	✓
Compatible Drive Unit		DU-EP800 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	Aluminum (w/ Plate type) - (w/o Plate type)	Steel
	Finish	Anodized	Anodized (w/ Plate type) - (w/o Plate type)	Painted
Chain guide	Material	Resin	Resin	Resin
	Finish	-	-	-
Note		w/ plate *w/ SM-CRE80-B 53.0mm Chain line	w/ Plate, w/o Plate type are available	w/ plate

SC

SW

DU

SMDU

SMDU

RT

FC

SMCR

SMCD

BT

BM

EWSW

EWCP

EC

EWEX

SMDU

# 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	Standard	Standard	Black	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
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
Cyclelife span for charge (times)		1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
Time to charge (hour)	SOC = 100%	* 5	* 4	* 6	* 5	* 5	* 5
	SOC = 80%	* 2.5	* 2	* 3	* 2.5	* 2.5	* 2.5
	SOC = 50%	* 2	* 1.5	* 2.5	* 2	* 2	* 2
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		✓	✓	✓	✓	** -	** -
Tail light/Reflector integration		-	-	-	-	-	-
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-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004	EC-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004	EC-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004	EC-E6000 EC-E6002 EC-E8004	EC-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004	EC-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004
Compatible adaptor for charge		-	-	-	-	SM-BTE80	SM-BTE80
Average weight (kg)		2.6	2.55	3.5	3.05	2.9	3.15
Note		* By EC-E6000 EC-E6000-3 for Japan  BT-E8010 for Japan (13 Ah, 468 Wh)	* By EC-E6000 EC-E6000-3 for Japan  ** BT-E8014 for Japan (10.9 Ah, 393 Wh)	* By EC-E6000 EC-E6000-3 for Japan  ** BT-E8016 for Japan (16.2 Ah, 583 Wh)	* By EC-E6000	* By EC-E6000 EC-E6000-3 for Japan  ** with SM-BTE80 or EV-CP100  *** BT-E8035 for Japan (13 Ah, 468 Wh)	* By EC-E6000 EC-E6000-3 for Japan  ** with SM-BTE80 or EV-CP100  *** BT-E8035-L for Japan (13 Ah, 468 Wh)

# Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-E8036	BT-E6000	BT-E6001	BT-E6010
Color	1	Standard	Black	Black	Black
	2	-	Gray	Gray	Gray
	3	-	-	-	-
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Integrated	Rear carrier	Rear carrier	Down tube
Rated voltage (V)		36	36	36	36
Rated capacity (Ah)		*** 17.5	11.6	14	** 11.6
Rated capacity (Wh)		630	418	504	418
Cyclelife span for charge (times)		1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)	1,000 (more than 60%)
Time to charge (hour)	SOC = 100%	* 6	* 4	* 5	* 4
	SOC = 80%	* 3	* 2	* 2.5	* 2
	SOC = 50%	* 2.5	* 1.5	* 2	* 1.5
Charge level display		✓	✓	✓	✓
Error signal		✓	✓	✓	✓
Charging port		** -	-	-	-
Tail light/Reflector integration		-	-	-	-
System on/off switch		✓	✓	✓	✓
Compatible battery mount		BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BM-E6000	BM-E6000	BM-E6010
Compatible charger		EC-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004	EC-E6000 EC-E6002 EC-E8004	EC-E6000 EC-E6002 EC-E8004	EC-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004
Compatible adaptor for charge		SM-BTE80	SM-BTE60	SM-BTE60	SM-BTE60
Average weight (kg)		3.7	2.58	2.65	2.65
Note		* By EC-E6000 EC-E6000-3 for Japan  ** with SM-BTE80 or EW-CP100  *** BT-E8036 for Japan (16.2 Ah, 583 Wh)	* By EC-E6000	* By EC-E6000	* By EC-E6000 EC-E6000-3 for Japan  ** BT-E6010 for Japan (10.9 Ah, 393 Wh, Black only)

- SC
- SW
- DU
- SMDU
- SMDU
- RT
- FC
- SMCR
- SMCD
- BT**
- BM
- EWSW
- EWCP
- EC
- EWEX
- SMDU

# Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BM-E8016	BM-E8020	BM-E8030-A	BM-E8030-B	BM-E8031-A	BM-E8031-B
Color	1	Black	Black	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Position		Down tube/ Seat tube	Integrated	Integrated	Integrated	Integrated	Integrated
Charging port		-	-	-	-	-	-
Lock system		✓	-	-	-	-	-
Key hole		-	✓	✓	✓	-	-
Connect to EW-CP100		-	-	✓	-	✓	-
System on/off switch		-	-	-	-	-	-
Power cable		✓	✓	✓	✓	✓	✓
Power cable length (mm)	250	✓	✓	✓	✓	✓	✓
	300	✓	-	-	-	-	-
	400	-	✓	✓	✓	✓	✓
	600	✓	-	-	-	-	-
	900	-	-	-	-	-	-
	920	-	-	-	-	-	-
	1,000	-	-	-	-	-	-
Cable length to EW-CP100 (mm)		-	-	200	-	200	-
Compatible battery		BT-E8010 BT-E8014 BT-E8016	BT-E8020	BT-E8035 BT-E8035-L BT-E8036	BT-E8035 BT-E8035-L BT-E8036	BT-E8035 BT-E8035-L BT-E8036	BT-E8035 BT-E8035-L BT-E8036
Compatible tool		TL-BME02	TL-BME03	TL-BME04 (for BT-E8035) TL-BME05 (for BT-E8035-L/BT-E8036)			
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)
Note		-	-	* Without key unit	* Without key unit	-	-

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		BM-E6000-A	BM-E6000-B	BM-E6010
Color	1	Black	Black	Black
	2	Gray	Gray	-
	3	-	-	-
Position		Rear carrier	Rear carrier	Down tube
Charging port		* ✓	* ✓	* ✓
Lock system		-	-	-
Key hole		✓	✓	✓
Connect to EW-CP100		-	-	-
System on/off switch		-	-	-
Power cable		✓	✓	✓
Power cable length (mm)	250	-	-	✓
	300	-	-	✓
	400	-	-	-
	600	-	-	✓
	900	-	-	-
	920	✓	✓	-
	1,000	-	-	-
Cable length to EW-CP100 (mm)		-	-	-
Compatible battery		BT-E6000 BT-E6001	BT-E6000 BT-E6001	BT-E6010
Compatible tool		-	-	TL-BME01
Average weight (kg)		-	-	-
Note		* By EC-E6000	* By EC-E6000	* By EC-E6000

## Satellite System ON/OFF Switch

Series	SHIMANO	SHIMANO
Model no.	EW-SW300	EW-SW100
Position	Integrated	Integrated
Master unit	-	-
Switch QTY (pcs)	1	1
SD50 port (pcs)	0	0
SD300 port (pcs)	0	0
SD50 connector (pcs)	0	1
SD300 connector (pcs)	1	0
Firmware update by E-TUBE PROJECT	✓	✓
Cable length (mm)	1,100	1100
Average weight (g)	23	25
Note		

## Satellite Charging Port

Series	SHIMANO
Model no.	EW-CP100
Position	Integrated
Compatible battery	BT-E8035 BT-E8036
Compatible battery mount	BM-E8030-A BM-E8031-A
Compatible battery charger	EC-E6000 EC-E6002 EC-E8004
Firmware update by E-TUBE PROJECT	-
Cable length to BM-E803* (mm)	200 550
Average weight (g)	
Note	

SC

SW

DU

SMDU

SMDU

RT

FC

SMCR

SMCD

BT

BM

EW SW

EWCP

EC

EWEX

SMDU

# 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	Standard	Standard	Standard	Standard	Standard	Standard
	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 battery		BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6010 BT-E8010 BT-E8016 BT-E8014 BT-E8016 BT-E8020 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036
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)							
Note		* 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

# Battery Charger

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EC-E8004-12	EC-E6000-1	EC-E6000-2	EC-E6000-3	EC-E6000-4	EC-E6000-6
Color	1	Standard	Standard	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Plug type		Type C	Type C	Type A	Type A	Type O	Type BF
Typical example country/Region		Brazil	Europe	USA, Canada	Japan	Australia, New Zealand	UK
Compatible battery		BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6010 BT-E8010 BT-E8016 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036
Compatible voltage		100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	100 V 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	40 V DC, 4.4 A 42 V DC, 4.0 A	40 V DC, 4.4 A 42 V DC, 4.0 A	40 V DC, 4.4 A 42 V DC, 4.0 A	40 V DC, 4.4 A 42 V DC, 4.0 A	40 V DC, 4.4 A 42 V DC, 4.0 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)	5.5	5.5	5.5	5.5	5.5
	80% charge (hour)	3.2 (* 4)	3.2	3.2	3.2	3.2	3.2
Charging time for 504 Wh (464 Wh in Japan) battery	Full charge (hour)	4 (* 4.5)	5	5	5	5	5
	80% charge (hour)	2.5 (* 3.2)	2.5	2.5	2.5	2.5	2.5
Charging time for 418 Wh (393 Wh in Japan) battery	Full charge (hour)	3.0 (* 3.5)	4	4	4	4	4
	80% charge (hour)	2.0 (* 2.5)	2	2	2	2	2
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)		1	2	2	1	1	1
Average weight (g)		-	930	985	-	955	960
Note		* In case of 100 V AC ** Check latest line-up chart	* Check latest line-up chart	* Check latest line-up chart	* Check latest line-up chart	* Check latest line-up chart	* Check latest line-up chart

SC

SW

DU

SMDU

SMDU

RT

FC

SMCR

SMCD

BT

BM

EWSW

EWCP

EC

EWEX

SMDU

# Battery Charger

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		EC-E6000-7	EC-E6000-9	EC-E6000-10	EC-E6000-12	EC-E6002
Color	1	Standard	Standard	Standard	Standard	Standard
	2	-	-	-	-	-
	3	-	-	-	-	-
Plug type		Type C	Type B3L	Type O	Type C	-
Typical example country/Region		Korea	South-Africa	Argentina	Brazil	Worldwide
Compatible battery		BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8016 BT-E8020 BT-E8035 BT-E8035-L BT-E8036
Compatible voltage		100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz	100 V - 240 V AC, 50 - 60 Hz
Output		40 V DC, 4.4 A 42 V DC, 4.0 A	40 V DC, 4.4 A 42 V DC, 4.0 A	40 V DC, 4.4 A 42 V DC, 4.0 A	40 V DC, 4.4 A 42 V DC, 4.0 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)	5.5	5.5	5.5	5.5	10.2
	80% charge (hour)	3.2	3.2	3.2	3.2	7.5
Charging time for 504 Wh (464 Wh in Japan) battery	Full charge (hour)	5	5	5	5	7.5
	80% charge (hour)	2.5	2.5	2.5	2.5	4
Charging time for 418 Wh (393 Wh in Japan) battery	Full charge (hour)	4	4	4	4	6.5
	80% charge (hour)	2	2	2	2	3.5
Charging Level Display		-	-	-	-	-
Plug in charging type		✓	✓	✓	✓	✓
Charging temperature		0 - 40 °C				
Storage temperature		-20 - 60 °C				
Error signal		✓	✓	✓	✓	✓
Adapter for battery connector		* -	* -	* -	* -	* -
Compatible AC power cable		-	-	-	-	SM-BCC1
Built in AC cable		✓	✓	✓	✓	-
Built in AC cable length (m)		1	1	1	1	-
Average weight (g)		930	-	950	950	523
Note		* Check latest line-up chart				

## DI2 Adapter

Series	SHIMANO
Model no.	EW-EX010
Type of DI2 component	Master unit
SD50 port (pcs)	2
SD300 port (pcs)	0
SD50 connector (pcs)	0
SD300 connector (pcs)	0
Compatible EW	EW-SD50
Note	DI2 adapter B (for BOSCH ebike system)

## Chain Case Fixing Bolt

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-E6110/DU-E6180

ARCHIVE

SC

SW

DU

SMDU

SMDU

RT

FC

SMCR

SMCD

BT

BM

EW SW

EWCP

EC

EWEX

SMDU

ARCHIVE

SHIMANO