

ARCHIVE

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SHIMANO

2019-2020

SPEC. HANDBOOK

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

REMARKS Mark ✓ : available / Mark - : not available

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Word definitions

BB	Bottom bracket	HP	Head parts
BC	Brake cable	HRB	Hub roller brake
BCC	Battery cable	I-SPEC	Integration mounting system of brake and shifting lever
BCR	Battery charger		
BH	Disc brake hose	ID	CI-DECK
BL	Brake lever	JC	Junction
BM	Battery mount	LP	Light
BR	Brake caliper	MF	Multiple freewheel
BTC	Battery case	MU	Motor unit
BTH	Battery holder	O.L.D.	Over Locknut Dimension
BTR	Battery	OT	Outer casing
CB	Coaster brake	P.C.D.	Pitch Circle Diameter
CD	Chain device	PCE	PC Linkage device
CG	Chain guard	PD	Pedal
CJ	Cassette joint	PM	POWER MODULATOR
CN	Chain	QR	Quick release
CP	Spoke protector	RD	Rear derailleur
CR	Chainring	RT	Disc brake rotor
CS	Cassette sprocket	RTAD	Disc brake rotor adapter
CT	Chain tensioner	SB	REVOSHIFT shifter integrated with brake lever
DH	Hub dynamo		
DU	Drive unit	SC	Cycle computer System information display
EC	Battery charger		
EW	Electric wire	SF	Single freewheel
EWC	Cord cover	SG	Internal geared hub
EWEX	DI2 adapter	SL	Shifting lever
EWW	Wireless unit	SPD	SHIMANO PEDALING DYNAMICS
FC	Front chainwheel Crankarm	SPD-SL	SHIMANO PEDALING DYNAMICS-SL
		ST	DUAL CONTROL LEVER / shifting lever integrated with brake lever
FD	Front derailleur	SW	Switch unit
FH	FREEHUB	WH	Wheel
GM	Grommet		
HB	Front hub		

ARCHIVE

	Page	
Shifting Lever	2	SL
Seat Post Lever	18	SLMT
Shifting Lever (Integration Unit)	18	SMSL
Brake Lever (Hydraulic disc brake)	19	BL
Brake Lever	22	BL
Shifting/Brake Lever (Hydraulic disc brake)	23	ST
Shifting/Brake Lever	25	ST
Rear Derailleur	28	RD
Front Derailleur	35	FD
Brake (Hydraulic disc brake)	55	BR
Brake (Mechanical disc brake)	59	BR
Brake (V-BRAKE)	59	BR
Front Chainwheel	60	FC
Chain device	73	SMCD
Chainring	74	SMCR
Bottom Bracket (HOLLOWTECH II)	76	BB
Bottom Bracket	77	BB
Cassette Sprocket	80	CS
Multiple Freewheel	84	MF
Front Hub (Disc Brake)	85	HB
Front Hub (Rim Brake)	90	HB
FREEHUB (Disc Brake)	91	FH
FREEHUB (Rim Brake)	98	FH
Wheel (Disc Brake)	99	WH
CI-DECK	105	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	-
Mount Type	Clamp band	✓	-	✓	-	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	✓	-	✓	-	-
Shifting lever position adjust		-	✓	-	✓	-	-
Shifting lever rotation adjust		-	✓	-	✓	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		4	4	-	-	4	-
Release function	MULTI RELEASE	✓	✓	-	-	✓*	-
	INSTANT RELEASE	✓	✓	✓	✓	✓	✓
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
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 (pc)		117 g	112 g	79 g	74 g	200 g/pair	200 g/pair
Note		-	-	-	-	* Pull: single, push: double	

Shifting Lever

Series		XTR	XTR	XTR	XTR	SAINT	SAINT
Model no.		SL-M9000-IR	SL-M9000-IL	SL-M980-B-IR	SL-M980-B-IL	SL-M820	SL-M820-B-I
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	10
Compatible rear derailleur type		MTB 11-speed	-	MTB 10-speed	-	MTB 10-speed	MTB 10-speed
Mount Type	Clamp band	-	-	-	-	✓	-
	I-SPEC B	-	-	✓	✓	-	✓**
	I-SPEC II	✓	✓	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		✓	✓	✓	✓	-	✓
Shifting lever rotation adjust		✓	✓	-	-	-	-
Shifting lever cable adjust		✓	✓	✓ (CFRP)	✓ (CFRP)	✓ (CFRP)	✓ (CFRP)
Front 2/3 mode converter		-	-	-	✓	-	-
Max. multiple shifts (Main lever/rear)		4	-	4	-	4	4
Release function	MULTI RELEASE	✓*	-	✓	-	✓*	✓*
	INSTANT RELEASE	✓	✓	✓	✓	✓	✓
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
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	Anodized	Anodized	Anodized	Painted	Painted
Clamp bolt	Material	-	-	-	-	Stainless steel	-
	Finish	-	-	-	-	Black	-
Main lever body	Material	CFRP	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Painted	Painted
Release lever body	Material	CFRP	CFRP	CFRP & Steel	CFRP & Steel	GFRP & Steel	GFRP & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	CFRP	CFRP	CFRP	CFRP	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	Polymer-coated	Polymer-coated	SIL-TEC	SIL-TEC	-	-
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		205 g/pair	205 g/pair	103 g	98 g	123 g	114 g
Note		* Pull: single, push: double				* Pull: single, push: double ** I-spec B-type	

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-R	SL-M8100-IR	SL-M8100-L	SL-M8100-IL	SL-M8000-R	SL-M8000-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	-
Mount Type	Clamp band	✓	-	✓	-	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	✓	-	✓	-	-
Shifting lever position adjust		-	✓	-	✓	-	-
Shifting lever rotation adjust		-	✓	-	✓	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		4	4	-	-	4	-
Release function	MULTI RELEASE	✓	✓	-	-	✓*	-
	INSTANT RELEASE	✓	✓	✓	✓	✓	✓
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
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	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Release lever body	Material	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 (pc)		117 g	120 g	78 g	78 g	127 g	117 g
Note						* 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-IR	SL-M8000-IL	SL-M8000-B-IR	SL-M8000-B-IL	SL-M780-B-IR	SL-M780-B-IL
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	-
Mount Type	Clamp band	-	-	-	-	-	-
	I-SPEC B	-	-	✓	✓	✓	✓
	I-SPEC II	✓	✓	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		✓	✓	✓	✓	✓	✓
Shifting lever rotation adjust		✓	✓	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Front 2/3 mode converter		-	-	-	-	-	✓
Max. multiple shifts (Main lever/rear)		4	-	4	-	4	-
Release function	MULTI RELEASE	✓*	-	✓*	-	✓	-
	INSTANT RELEASE	✓	✓	✓	✓	✓	✓
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
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	-	-	-	-	-	-
	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	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	-	-
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		120 g	110 g	117 g	107 g	114 g	106 g
Note		* Pull: single, push: double		* 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	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX	SLX
Model no.		SL-M780-R	SL-M780-L	SL-M770-A-R	SL-M770-A-L	SL-M7100-R	SL-M7100-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	-	3	-	-
Rear speeds		10	-	9	-	12	12
Compatible rear derailleur type		MTB 10-speed	-	MTB 9-speed	-	12-speed	12-speed
Mount Type	Clamp band	✓	✓	✓	✓	✓	-
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	✓
Shifting lever position adjust		-	-	-	-	-	✓
Shifting lever rotation adjust		-	-	-	-	-	✓
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Front 2/3 mode converter		-	✓	-	-	-	-
Max. multiple shifts (Main lever/rear)		4	-	4	-	3	3
Release function	MULTI RELEASE	✓	-	-	-	-	-
	INSTANT RELEASE	✓	✓	✓	✓	-	-
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
OPTICAL GEAR DISPLAY	with	-	-	-	-	-	-
	with (removable)	✓	✓	✓	✓	-	-
	without	✓	✓	✓	✓	✓	✓
Multi-Bearing construction		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	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	GFRP & Steel	GFRP & Steel
	Finish	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	Resin	Resin	GFRP	GFRP
	Finish	Painted	Painted	Painted	Painted	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	OPTISLICK	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		128 g	121 g	255 g/pair	255 g/pair	117 g	117 g
Note							

Shifting Lever

Series		SLX	SLX	SLX	SLX	SLX	SLX
Model no.		SL-M7100-L	SL-M7100-IL	SL-M7000-11-R	SL-M7000-L	SL-M7000-11-IR	SL-M7000-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	-
Mount Type	Clamp band	✓	-	✓	✓	-	-
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	✓	✓
	I-SPEC EV	-	✓	-	-	-	-
Shifting lever position adjust		-	✓	-	-	✓	✓
Shifting lever rotation adjust		-	✓	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		-	-	3	-	3	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	✓	✓	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
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 (pc)		77 g	77 g	135 g	130 g	120 g	115 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		SLX	SLX	SLX	SLX	SLX	SLX
Model no.		SL-M7000-11-B-IR	SL-M7000-B-IL	SL-M7000-10-R	SL-M7000-10-IR	SL-M7000-10-B-IR	SL-M670-B-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		11	-	10	10	10	10
Compatible rear derailleur type		MTB 11-speed	-	MTB 10-speed	MTB 10-speed	MTB 10-speed	MTB 10-speed
Mount Type	Clamp band	-	-	✓	-	-	-
	I-SPEC B	✓	✓	-	-	✓	✓
	I-SPEC II	-	-	-	✓	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		✓	✓	-	✓	✓	✓
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		3	-	3	3	3	3
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
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	-	-	-
	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	-
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		127 g	120 g	135 g	120 g	127 g	121 g
Note							

Shifting Lever

Series		SLX	ZEE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Model no.		SL-M670-B-IL	SL-M640	SL-M6000-R	SL-M6000-L	SL-M6000-IR	SL-M6000-IL
Color	1	Series color	Series color	Series black	Series black	Series black	Series black
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2/3	-	-	2/3	-	2/3
Rear speeds		-	10	10	-	10	-
Compatible rear derailleur type		-	MTB 10-speed	MTB 10-speed	-	MTB 10-speed	-
Mount Type	Clamp band	-	✓	✓	✓	-	-
	I-SPEC B	✓	-	-	-	-	-
	I-SPEC II	-	-	-	-	✓	✓
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		✓	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Front 2/3 mode converter		✓	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		-	3	3	-	3	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
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	-	-
	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
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		116 g	127 g	-	-	-	-
Note							

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Shifting Lever

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO ALIVIO	SHIMANO ALIVIO
Model no.		SL-M610-IR	SL-M610-IL	SL-M590-R	SL-M590-L	SL-M4000-R	SL-M4000-L
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	-	3	-	3
Rear speeds		10	-	9	-	9	-
Compatible rear derailleur type		MTB 10-speed	-	MTB 9-speed	-	MTB 9-speed	-
Mount Type	Clamp band	-	-	✓	✓	✓	✓
	I-SPEC B	✓	✓	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Front 2/3 mode converter		-	✓	-	-	-	-
Max. multiple shifts (Main lever/rear)		3	-	3	-	3	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
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	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	GFRP & Steel	GFRP & Steel	GFRP & Steel	GFRP & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	GFRP	GFRP	GFRP	GFRP	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	Standard	Standard
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		-	-	-	-	-	-
Note							

Shifting Lever

Series		SHIMANO ALIVIO	SHIMANO ACERA	SHIMANO ACERA	SHIMANO ACERA	SHIMANO ACERA	SHIMANO ACERA
Model no.		SL-M4010-L	SL-M3000-R	SL-M3000-L	SL-M3010-L	SL-M360-R	SL-M360-L
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		-	9	-	-	8	-
Compatible rear derailleur type		-	MTB 9-speed	-	-	MTB 8-speed	-
Mount Type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		-	3	-	-	3	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	-	-	-	-	-
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	Steel	Steel
	Finish	-	-	-	-	-	-
Main lever body	Material	Resin & Steel	Steel & Resin	Steel & Resin	Steel & Resin	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin & Steel	Steel & Resin	Steel & Resin	Steel & Resin	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless 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
Average Weight (pc)		-	-	-	-	-	-
Note			* Stainless steel option available	* Stainless steel option available			

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Shifting Lever

Series		SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO TOURNEY
Model no.		SL-M2010-9R	SL-M2010-L	SL-M2010-2L	SL-M2000-R	SL-M2000-L	SL-RS47-8R
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	REVOSHIFT
Front speeds		-	3	2	-	3	-
Rear speeds		9	-	-	9	-	8
Compatible rear derailleur type		MTB 9-speed	-	-	MTB 9-speed	-	MTB 8-speed
Mount Type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		3	-	-	3	-	7
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	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	-
Main lever body	Material	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	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	Standard
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SIS40
Average Weight (pc)		-	-	-	-	-	-
Note							OGD frame: Chrome plated Compatible with CI-DECK

Shifting Lever

Series		SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY
Model no.		SL-RS45-8R	SL-RS47-7R	SL-RS47-L	SL-RS45-7R	SL-RS45-L	SL-RS36-7R
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	-
Rear speeds		8	7	-	7	-	7
Compatible rear derailleur type		MTB 8-speed	MTB 7-speed	-	MTB 7-speed	-	MTB 7-speed
Mount Type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		7	6	-	6	-	6
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	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 (pc)		-	-	-	-	-	-
Note		Compatible with CI-DECK	OGD frame: Chrome plated Compatible with CI-DECK	OGD frame: Chrome plated Compatible with CI-DECK	Compatible with CI-DECK	Compatible with CI-DECK	w/ CI-DECK spec is available as option

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Shifting Lever

Series		SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY
Model no.		SL-RS36-L	SL-RS35-7R	SL-RS35-L	SL-RS35-LN	SL-FT55-7R	SL-TX50-7R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	Thumb shifter Plus	Thumb Shifter Plus
Front speeds		3	-	3	3 (Friction)	-	-
Rear speeds		-	7	-	-	7	7
Compatible rear derailleur type		-	MTB 7-speed	-	-	MTB 7-speed	MTB 7-speed
Mount Type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		✓	-	✓	✓	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		-	6	-	-	6	6
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	✓	✓	✓	✓	✓	✓
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Steel	Resin	Resin	Resin	Steel	Steel
	Finish	Painted	Resin	Resin	Resin	Painted	Painted
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Main lever body	Material	-	-	-	-	Resin	Resin
	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	-	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 (pc)		-	-	-	-	-	-
Note		w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option	w/ CI-DECK spec is available as option		

Shifting Lever

Series		SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY
Model no.		SL-TX30-7R	SL-TX30-LN	SL-TX50-L	SL-TX50-LN	SL-RS45-6R	SL-RS36-6R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter Plus	REVOSHIFT	REVOSHIFT
Front speeds		-	3 (Friction)	3	3 (Friction)	-	-
Rear speeds		7	-	-	-	6	6
Compatible rear derailleur type		MTB 7-speed	-	-	-	MTB 6-speed	MTB 6-speed
Mount Type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		-	✓	✓	✓	✓	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		6	-	-	-	5	5
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	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	-	-
	Finish	-	-	-	-	-	-
Release lever body	Material	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 (pc)		-	-	-	-	-	-
Note						Compatible with CI-DECK	w/ CI-DECK spec is available as option

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Shifting Lever

Series		SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY TZ	SHIMANO TOURNEY TZ	SHIMANO TOURNEY TZ
Model no.		SL-RS35-6R	SL-TX50-6R	SL-TX30-6R	SL-TZ500-7R	SL-TZ500-LN	SL-TZ500-6R
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		REVOSHIFT	Thumb Shifter Plus	Thumb Shifter Plus	Thumb Shifter	Thumb Shifter	Thumb Shifter
Front speeds		-	-	-	-	3 (Friction)	-
Rear speeds		6	6	6	7	-	6
Compatible rear derailleur type		MTB 6-speed	MTB 6-speed	MTB 6-speed	MTB 7-speed	-	MTB 6-speed
Mount Type	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever rotation adjust		-	-	-	-	-	-
Shifting lever cable adjust		-	-	-	-	-	-
Front 2/3 mode converter		-	-	-	-	-	-
Max. multiple shifts (Main lever/rear)		5	5	5	6	-	5
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	-	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	✓	✓	✓	✓*	✓*	✓*
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Resin	Steel	Steel	Steel	Steel	Steel
	Finish	Resin	Painted	Painted	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	Resin	Resin
	Finish	-	-	-	-	-	-
Release lever body	Material	-	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 (pc)		-	-	-	-	-	-
Note		w/ CI-DECK spec is available as option			* Gear Position Indicator	* Gear Position Indicator	* Gear Position Indicator

Shifting Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SL-M315-8R	SL-M315-7R	SL-M315-L	SL-M315-2L
Color	1	Series color	Series color	Series color	Series color
	2	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		-	-	3	2
Rear speeds		8	7	-	-
Compatible rear derailleur type		MTB 8-speed	MTB 7-speed	-	-
Mount Type	Clamp band	✓	✓	✓	✓
	I-SPEC B	-	-	-	-
	I-SPEC II	-	-	-	-
	I-SPEC EV	-	-	-	-
Shifting lever position adjust		-	-	-	-
Shifting lever rotation adjust		-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓
Front 2/3 mode converter		-	-	-	-
Max. multiple shifts (Main lever/rear)		3	3	-	-
Release function	MULTI RELEASE	-	-	-	-
	INSTANT RELEASE	-	-	-	-
	2-WAY RELEASE	-	-	-	-
OPTICAL GEAR DISPLAY	with	✓	✓	✓	✓
	with (removable)	-	-	-	-
	without	-	-	-	-
Multi-Bearing construction		-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Clamp bolt	Material	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated
Main lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-
Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin
	Finish	-	-	-	-
Shifting lever cable	Material	Steel	Steel	Steel	Steel
	Finish	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight (pc)		-	-	-	-
Note					

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Seat Post Lever

Series		SHIMANO
Model no.		SL-MT800-IL
Color	1	Black
	2	-
Lever type		Seat post lever
Mount Type	Clamp band	-
	I-SPEC B	-
	I-SPEC II	-
	I-SPEC EV	✓
Lever position adjust		✓
Lever rotation adjust		✓
Cable adjuster		✓
Bearing construction		✓
Body	Material	Aluminum
	Finish	Painted
Lever	Material	Aluminum
	Finish	Painted
Inner cable	Material	Stainless steel
	Finish	OPTISLICK
Recommended shifting lever outer casing		OT-SP41
Average Weight (pc)		37 g
Note		SHIMANO logo

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
	Finish	Anodized	Anodized	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	* I-SPEC B-type compatible	* I-SPEC B-type compatible	* I-SPEC B-type compatible	* I-SPEC B-type compatible

Brake Lever (Hydraulic disc brake)

Series		XTR	XTR	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	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (Finger)		2	2	2	2	2	2
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake hose (Kit)		SM-BH90-SS	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-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	✓	✓	✓	✓	✓	✓
Recommended brake caliper		BR-M9100	BR-M9120	BR-M9000	BR-M9020	BR-M820	BR-M8100 BR-M8120
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓	✓	✓	✓	✓
Clamp bolt	Material	Aluminum	SUS	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 (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 g	385 g	316 g	360 g	103.2 g**	392 g (BR-M8100) 410 g (BR-M8120)
Note		-	-	-	-	* I-SPEC B-type ** Single item weight	-

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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-M6000	BL-MT500	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 Black	Black	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	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	✓	✓	✓	✓	✓	✓
Recommended brake caliper		BR-M8000	BR-M7100 BR-M7120	BR-M640	BR-M6000	BR-MT500	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 (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 g	425 g (BR-M7100) 444 g (BR-M7120)	116.7 g**	-	-	-
Note				* I-SPEC B-type ** Single item weight	** M6000 kit only		-

Brake Lever (Hydraulic disc brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BL-MT400	BL-MT401	BL-MT401-3A	BL-MT402-3A	BL-MT201	BL-MT200
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (Finger)		2	2	3	3	3	3
Color	1	Black (Metallic silver lever)	Black (Metallic silver lever)	Black	Black	Black	Black
	2	Black (Black lever)	Black (Black lever)	Silver *	Silver *	-	-
	3	-	-	-	-	-	-
Brake hose (Kit)		SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS (for BR-MT400) SM-BH90-SS (for BR-MT420)	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
J-Kit spec (for OEM)		-	-	-	-	-	-
SERVO WAVE		-	-	-	-	-	-
Reach adjust	Toolless	-	-	-	-	-	-
	Tool	✓	✓	✓	✓	✓	✓
Free stroke adjust		-	-	-	-	-	-
Compatible shifting lever mount	Clamp band	✓	✓	✓	✓	✓	✓
	I-SPEC B	-	-	-	-	-	-
	I-SPEC II	-	-	-	-	-	-
	I-SPEC EV	-	-	-	-	-	-
Clamp band	Open clamp	-	-	-	-	-	-
Recommended brake caliper		BR-MT400	BR-MT400 BR-MT420	BR-MT400	BR-MT400 BR-MT420	BR-MT200 BR-UR300	BR-MT200 BR-UR300
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
Funnel bleeding		✓	✓	✓	✓	✓	✓
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Average Weight (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	* The option color part is master cylinder	-	-

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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 (pair)		175 g
Note		For BMX

Shifting/Brake Lever (Hydraulic disc brake)

Series		SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-M4050-R	ST-M4050-L	ST-EF505-9R	ST-EF505-8R	ST-EF505-7R	ST-EF505-2L	
Color	1	Series color	Series color	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
Shifting lever	Front speeds	-	3	-	-	-	2	
	Rear speeds	9	-	9	8	7	-	
	2/3 mode converter	-	-	-	-	-	-	
	Max. multiple shifts (Main lever/rear)	3	-	3	3	3	-	
	Compatible rear derailleur type	MTB 9-speed	-	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	OT-SP41	
Shifting lever cable	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel	
	Finish	Standard	Standard	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	
Brake lever	Lever size (Finger)	2	2	3	3	3	3	
	Brake hose (Kit)	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	
	Hose joint	Straight	Straight	Straight	Straight	Straight	Straight	
	Brake hose color (kit)	1	Black	Black	Black	Black	Black	Black
		2	-	-	-	-	-	-
	J-Kit spec (for OEM)	✓	✓	✓	✓	✓	✓	
	Recommended brake caliper	BR-MT400	BR-MT400	BR-MT200	BR-MT200	BR-MT200	BR-MT200	
	Oil	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	
	Reach adjust	Toolless	-	-	-	-	-	-
		Tool	✓	✓	✓	✓	✓	✓
	Funnel bleeding	✓	✓	✓	✓	✓	✓	
	Free stroke adjust	-	-	-	-	-	-	
	SERVO WAVE	-	-	-	-	-	-	
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
Finish	Anodized	Anodized	Painted	Painted	Painted	Painted		
Clamp band	Open clamp	-	-	-	-	-	-	
Shifter Lever body	Main	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	
	Release	Resin & Steel	Resin & Steel	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Bracket	Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
		Finish	Painted	Painted	Painted	Painted	Painted	
	Clamp bolt	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
		Finish	✓	✓	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Stainless clamp bolt	✓	✓	-	-	-	-		
Average Weight	-	-	-	-	-	-		
Note								

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Shifting/Brake Lever (Hydraulic disc brake)

Series		SHIMANO	
Model no.		ST-EF505-L	
Color	1	Black	
	2	-	
Shifter type		EZ FIRE PLUS	
Shifting lever	Front speeds		3
	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	-
	Shifting lever cable adjust		✓
	OPTICAL GEAR DISPLAY	With	✓
		With (removable)	-
		Without	-
	Multi-Bearing construction		-
Shifting lever outer casing		OT-SP41	
Shifting lever cable	Material	Steel	
	Finish	OPTISLICK	
Brake lever	Lever size (Finger)		3
	Brake hose (Kit)		SM-BH59-JK-SS
	Hose joint		Straight
	Brake hose color (kit)	1	Black
		2	-
	J-Kit spec (for OEM)		✓
	Recommended brake caliper		BR-MT200
	Oil		SHIMANO Mineral
	Reach adjust	Toolless	-
		Tool	✓
	Funnel bleeding		✓
	Free stroke adjust		-
	SERVO WAVE		-
	Material		Aluminum
	Finish		Painted
Clamp band	Open clamp		-
Shifter Lever body	Main		Steel & Resin
	Release		Steel & Resin
Master cylinder	Material		Aluminum
	Finish		Painted
Bracket	Bracket	Material	Aluminum
		Finish	Painted
	Clamp bolt	Material	Steel
		Finish	Zinc plated
Stainless clamp bolt		-	
Average Weight		-	
Note			

Shifting/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-EF65-9R2	ST-EF65-8R2	ST-M310-8R2	ST-M310-L2	ST-EF500-8R2A	ST-EF500-8R4A	
Color	1	Black	Black	Black	Black	Black	Black	
	2	Silver	Silver	Silver	Silver	-	-	
Shifting lever	Shifter type	EZ FIRE PLUS	EZ FIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	
	Front speeds	-	-	-	3	-	-	
	Rear speeds	9	8	8	-	8	8	
	Compatible rear derailleur type	MTB 9-speed	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	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*	
		Mechanical disc brake (MTB)	✓	✓	✓	✓	✓ with switch*	
		Mechanical disc brake (Road)	-	-	-	-	-	
		Caliper (SLR-EV)	-	-	-	-	-	
		Caliper (NEW SUPER SLR)	-	-	-	-	-	
		Caliper (super SLR)	-	-	-	-	✓ with switch	
		Cantilever brake	-	-	-	-	✓ with switch	
	Roller brake	-	-	-	-	✓ with switch		
	Recommended POWER MODULATOR	V-BRAKE	-	-	-	-	SM-PM40	
		Mechanical disc brake (MTB)	-	-	-	-	SM-PM50	
	Clamp band	Open clamp band	-	-	-	-	-	
	Internal bumper stop		✓	✓	-	-	-	
	Lever size (Finger)		2	2	2	2	4	
	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	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum		
	Finish	Anodized	Anodized	Anodized	Anodized	Painted		
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum		
	Finish	Painted	Painted	Painted	Painted	Painted		
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel		
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Plated		
Average Weight		-	-	-	-	-		
Note						* POWER MODULATOR must be used for front brake		

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Shifting/Brake Lever

Series		SHIMANO TOURNEY TX	SHIMANO TOURNEY TX	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-TX800-8R	ST-TX800-L	ST-EF500-7R2A	ST-EF500-7R4A	ST-EF500-L2A	ST-EF500-L4A	
Color	1	Black	Black	Black	Black	Black	Black	
	2	Silver	Silver	-	-	-	-	
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	3	
	Rear speeds	8	-	7	7	-	-	
	Compatible rear derailleur type	MTB 8-speed	-	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	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 & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
	Release lever body	Material	Resin	Resin	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-SIS40	OT-SIS40	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	
Brake lever	Compatible brake type	V-BRAKE	✓	✓	✓	✓ with switch*	✓	✓ with switch*
		Mechanical disc brake (MTB)	✓	✓	✓	✓ with switch*	✓	✓ with switch*
		Mechanical disc brake (Road)	-	-	-	-	-	-
		Caliper (SLR-EV)	-	-	-	-	-	-
		Caliper (NEW SUPER SLR)	-	-	-	-	-	-
		Caliper (super SLR)	-	-	-	✓ with switch	-	✓ with switch
		Cantilever brake	-	-	-	✓ with switch	-	✓ with switch
	Roller brake	-	-	-	✓ with switch	-	✓ with switch	
	Recommended POWER MODULATOR	V-BRAKE	-	-	-	SM-PM40	-	SM-PM40
		Mechanical disc brake (MTB)	-	-	-	SM-PM50	-	SM-PM50
	Clamp band	Open clamp band	-	-	-	-	-	-
	Internal bumper stop	-	-	-	-	-	-	-
	Lever size (Finger)	2	2	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	Steel/Resin	Steel/Resin	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	-	-	Painted	Painted	Painted	Painted	
Bracket	Bracket	Material	Steel	Steel	Aluminum	Aluminum	Aluminum	
		Finish	Painted	Painted	Painted	Painted	Painted	
	Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Zinc plated	Zinc plated	Plated	Plated	Plated	
Average Weight		-	-	-	-	-	-	
Note					* POWER MODULATOR must be used for front brake		* POWER MODULATOR must be used for front brake	

Shifting/Brake Lever

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		ST-EF65-7R2	ST-EF65-L2	ST-EF41-7R	ST-EF41-6R	ST-EF41-L	
Color	1	Black	Black	Black	Black	Black	
	2	Silver	Silver	-	-	-	
Shifting lever	Shifter type		EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS	EZ FIRE PLUS
	Front speeds		-	3	-	-	3
	Rear speeds		7	-	7	6	-
	Compatible rear derailleur type		MTB 7-speed	-	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	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	Resin	Resin
		Finish	-	-	-	-	-
	Release lever body	Material	Resin & Steel	Resin & Steel	Resin	Resin	Resin
		Finish	-	-	-	-	-
	Shifting lever cable	Material	Steel	Steel	Steel	Steel	Steel
Finish		Standard	Standard	Standard	Standard	Standard	
Recommended shifting lever outer casing		OT-SP41	OT-SP41	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	2	2
	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	Aluminum	Aluminum	Steel/Resin	Steel/Resin	Steel/Resin	
	Finish	Anodized	Anodized	-	-	-	
Bracket	Material	Aluminum	Aluminum	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average Weight		-	-	-	-	-	
Note							

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Rear Derailleur

Series		XTR	XTR	XTR	XTR	XTR	SHIMANO DEORE XT
Model no.		RD-M9100-GS	RD-M9100-SGS	RD-M9120-SGS	RD-M9000-SGS	RD-M9000-GS	RD-M8100-SGS
Pulley cage		GS	SGS	SGS	SGS	GS	SGS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12	12	12 (Front double)	11	11	12
Compatible chain		CN-M9100	CN-M9100	CN-M9100	HG-X 11-speed	HG-X 11-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	18T	10T	0T
Total capacity		35T	41T	41T	45T	37T	41T
Low sprocket	Max.	45T	51T	45T	40T(3x11-speed), 42T(2x11-speed), 46T(1x11-speed)	42T(2x11-speed), 46T(1x11-speed)	51T
	Min.	45T	51T	45T	40T	40T	51T
Top sprocket	Max.	10T	10T	10T	11T	11T	10T
	Min.	10T	10T	10T	11T	11T	10T
Fluoric coated link bushings		8	8	8	4	4	4
Pulley	G pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing
	Teeth	13T	13T	13T	11T	11T	13T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Sunken type pulley bolt		✓	✓	✓	✓	✓	✓
Bracket	Material	-	-	-	Aluminum	Aluminum	Aluminum
	Finish	-	-	-	Anodized	Anodized	Painted
B-Axle	Hollow axle	✓	✓	✓	✓	✓	✓
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Stainless steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
B-Axle 2	Hollow axle	-	-	-	-	-	-
	Material	-	-	-	Aluminum	Aluminum	-
	Finish	-	-	-	Anodized	Anodized	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Plate body	Material	CFRP	CFRP	CFRP	CFRP	CFRP	GFRP
	Finish	Painted	Painted	Painted	Painted	Painted	-
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Outer plate	Material	CFRP	CFRP	CFRP	CFRP	CFRP	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Cable fixing Bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	-
Stroke Adjusting Screw	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Plated
Average Weight (pc)		237 g	240 g	241 g	224 g	221 g	284 g
Note		-	-	-	* w/o Bracket spec. available	* w/o Bracket spec. available	-

Rear Derailleur

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX	SLX	SLX
Model no.		RD-M8120-SGS	RD-M8000-GS	RD-M8000-SGS	RD-M7100-SGS	RD-M7120-SGS	RD-M7000-11-GS
Pulley cage		SGS	GS	SGS	SGS	SGS	GS
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12 (Front double)	11	11	12-speed	12-speed (Front double)	11
Compatible chain		HG 12-speed	HG-X 11-speed	HG-X 11-speed	HG 12-speed	HG 12-speed	HG-X 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	10T	18T	0T	10T	10T
Total capacity		45T	39T	47T	41T	45T	41T
Low sprocket	Max.	45T	42T(2x11-speed), 46T(1x11-speed)	40T(3x11-speed), 42T(2x11-speed), 46T(1x11-speed)	51T	45T	42T(2x11-speed), 46T(1x11-speed)
	Min.	45T	40T	40T	51T	45T	40T
Top sprocket	Max.	10T	11T	11T	10T	10T	11T
	Min.	10T	11T	11T	10T	10T	11T
Fluoric coated link bushings		4	4	4	4	4	4
Pulley	G pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	-	-	-
	T pulley bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	-	-	-
	Teeth	13T	11T	11T	13T	13T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Sunken type pulley bolt		✓	✓	✓	✓	✓	✓
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	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
	Finish	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Plate body	Material	GFRP	GFRP	GFRP	GFRP	GFRP	GFRP
	Finish	-	-	-	-	-	-
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer plate	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
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	Plated	Plated	Plated	Plated	Plated	Plated
Average Weight (pc)		290 g	271 g	275 g	316 g	322 g	323 g
Note			* 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			* w/o Bracket spec. available

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Rear Derailleur

Series		SAINT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX
Model no.		RD-M820-SS	RD-M781-GS	RD-M781-SGS	RD-M786-GS	RD-M786-SGS	RD-M7000-10-SGS
Pulley cage		SS	GS	SGS	GS	SGS	SGS
Color	1	Series color	Silver	Silver	Silver	Silver	Series color
	2	-	Black	Black	Black	Black	-
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		Single	18T	22T	18T	22T	22T
Total capacity		25T	35T	43T	35T	43T	43T
Low sprocket	Max.	28/36T	36T	36T	36T	36T	36T
	Min.	23T	32T	32T	32T	32T	32T
Top sprocket	Max.	12T	11T	11T	11T	11T	11T
	Min.	11T	11T	11T	11T	11T	11T
Fluoroc coated link bushings		5	4	4	4	4	2
Pulley	G pulley bearing	-	Sealed Bearing	Sealed Bearing	Sealed Bearing	Sealed Bearing	-
	T pulley bearing	Sealed Bearing	Sealed 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	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
B-Axle	Hollow axle	✓	✓	✓	✓	✓	✓
	Material	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
B-Axle 2	Finish	Anodized	-	-	-	-	-
	Hollow axle	✓	-	-	-	-	✓
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Plate body	Material	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
Outer plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Cable fixing 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 (pc)		280 g (w/o mode converter)	234 g	238 g	262 g	266 g	313 g
Note		* w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available

Rear Derailleur

Series		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 (pc)		278 g	281 g	275 g	-	-	-
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

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Rear Derailleur

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO ALIVIO	SHIMANO ACERA	SHIMANO ALTUS
Model no.		RD-M610-SGS	RD-M592-SGS	RD-M591-SGS	RD-M4000	RD-M3000	RD-M2000
Pulley cage		SGS	SGS	SGS	SGS	SGS	SGS
Color	1	Black	Series color	Silver	Series color	Series color	Series color
	2	Silver	-	Black	-	-	-
Rear speeds		10	9	9	9	9	9
Compatible chain		HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
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	22T
Total capacity		43T	45T	45T	45T	45T	45T
Low sprocket	Max.	36T	36T	34T	36T	36T	36T
	Min.	32T	32T	28T	32T	32T	32T
Top sprocket	Max.	11T	12T	12T	12T	12T	12T
	Min.	11T	11T	11T	11T	11T	11T
Fluoroc coated link bushings		3	3	3	2	1	-
Pulley	G pulley bearing	-	-	-	-	-	-
	T pulley bearing	-	-	-	-	-	-
	Teeth	11T	11T	11T	11T	11T	11T
	Bolts material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel
	Sunken type pulley bolt	✓	✓	✓	✓	✓	✓
Bracket	Material	Steel	Steel	-	Steel	Steel	Steel
	Finish	Painted	Painted	-	Painted	Painted	Painted
B-Axle	Hollow axle	✓	✓	-	✓	✓	-
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
B-Axle 2	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
	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	-	-	-	Painted	Painted	Zinc plated
Plate body	Material	Aluminum	Aluminum	Aluminum	PA-GF	PA-GF	PA-GF
	Finish	Painted	Painted	Painted	Painted	Painted	-
Outer link	Material	Aluminum	Aluminum	Aluminum	CFRP	PA-GF	PA-GF
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	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	Painted
Cable fixing Bolt	Material	Steel	Steel	Steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Plated	Plated	Plated	-	-	-
Stroke Adjusting Screw	Material	Steel	Steel	Steel	Stainless steel	Steel	Steel
	Finish	Plated	Plated	Plated	-	Zinc plated	Zinc plated
Average Weight (pc)		-	-	-	-	-	-
Note		* w/o Bracket spec. available			* w/o Bracket spec. available	* w/o Bracket spec. available	

Rear Derailleur

Series		SHIMANO ALTUS	SHIMANO ACERA	SHIMANO ALTUS	SHIMANO TOURNEY TX	SHIMANO TOURNEY	SHIMANO TOURNEY	
Model no.		RD-M370-SGS	RD-M360-SGS	RD-M310-Smart	RD-TX800	RD-TY500-SGS	RD-TY300-SGS	
Pulley cage		SGS	SGS	Smart	SGS	SGS	SGS	
Color	1	Black	Black	Black	Black	Series color	Series color	
	2	Silver	Silver	Silver	Silver	-	-	
Rear speeds		9	8/7	8/7	8/7	7/6	7/6	
Compatible chain		HG 9-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-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		22T	20T	20T	20T	20T	20T	
Total capacity		45T	43T	43T	43T	43T	43T	
Low sprocket	Max.	34T	34T	34T	34T	34T	34T	
	Min.	28T	28T	28T	28T	28T	28T	
Top sprocket	Max.	11T	14T	14T	14T	14T	14T	
	Min.	11T	11T	11T	11T	11T	11T	
Fluoroc coated link bushings		-	1	-	-	-	-	
Pulley	G pulley bearing	-	-	-	-	-	-	
	T pulley bearing	-	-	-	-	-	-	
	Teeth	11/11T	13/13T	13/15T	13/13T	13/13T	13/13T	
	Bolts material	Steel	Steel	Steel	Steel	Steel	Steel	
	Sunken type pulley bolt	✓ (Guide pulley) - (Tension pulley)	-	-	-	-	-	
Bracket	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
B-Axle	Hollow axle	-	-	-	-	-	-	
	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	
B-Axle 2	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	Zinc plated	Zinc plated	
Bracket body	Material	Aluminum	Aluminum	Aluminum	Resin	Resin	Resin	
	Finish	Painted	Painted	Painted	Painted	-	-	
P-Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Plate body	Material	Resin	Resin	Resin	Resin	Resin	Resin	
	Finish	Painted	- (Black) Painted (Silver)	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Resin	Steel	
	Finish	Painted	Zinc plated	Zinc plated	Zinc plated	-	Zinc plated	
Outer plate	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner plate	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Zinc plated	Zinc plated	Zinc plated	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 (pc)		-	-	-	-	-	-	
Note							w/ Wheel type cable guide	

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Rear Derailleur

Series		SHIMANO TOURNEY TZ	SHIMANO TOURNEY	SHIMANO TOURNEY
Model no.		RD-TZ500-GS	RD-TY21-B-SS	RD-TY21-B-GS
Pulley cage		G5	SS	G5
Color	1	Series color	Black	Black
	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		20T	13T	20T
Total capacity		34T	28T	34T
Low sprocket	Max.	28T	28T	28T
	Min.	28T	28T	28T
Top sprocket	Max.	14T	14T	14T
	Min.	14T	14T	14T
Fluoric 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	Steel	Resin	Resin
	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	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
Inner link	Material	Steel	Steel	Steel
	Finish	Zinc plated	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
Outer plate	Material	Steel	Steel	Steel
	Finish	Painted	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
Inner plate	Material	Steel	Steel	Steel
	Finish	Painted	Painted (Black) Zinc plated (Silver)	Painted (Black) Zinc plated (Silver)
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 (pc)		-	-	-
Note				

Front Derailleur

Series		XTR	XTR	XTR	XTR	XTR	XTR	
Model no.		FD-M9100-D	FD-M9100-E	FD-M9100-M	FD-M9000-D	FD-M9000-E	FD-M9000-H	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	3	3	3	
	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	28.6 mm	-	-	- *	-	✓ (w/ S size adapter)	
		31.8 mm	-	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	
		34.9 mm	-	-	✓	-	✓	
	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	✓	✓	✓	✓	✓	✓	
Chainline (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.)	50	50	50	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		38T	38T	38T	40T	40T	40T	
Total capacity		10T	10T	10T	18T	18T	18T	
Applicable Top-Mid tooth difference		-	-	-	10T	10T	10T	
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	Aluminum	Aluminum	Aluminum	
	Finish	Plated	Plated	Plated	Nickel Plating	Nickel Plating	Nickel Plating	
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 (pc) (Band type: L size, direct type w/ bolt)		110 g	88 g	99 g	117.0 g	102 g	130.0 g	
Note		-	-	* S-size adapter is available in OTC package only Chainline 48.8 mm, 51.8 mm compatible	-	-	-	

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Front Derailleur

Series		XTR	XTR	XTR	XTR	XTR	XTR	
Model no.		FD-M9000-L	FD-M9020-D	FD-M9020-E	FD-M9020-H	FD-M9020-L	FD-M9025-D	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	2	2	2	2	2	
	Rear	11	11	11	11	11	11	
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	
Action	TOP SWING	-	-	-	-	-	-	
	Down Swing	-	-	-	-	-	✓	
	SIDE SWING	✓	✓	✓	✓	✓	-	
Mount	Clamp Band	28.6 mm	✓ (w/ S size adapter)	-	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8 mm	✓ (w/ M size adapter)	-	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9 mm	✓	-	-	✓	✓	
	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	✓	✓	✓	✓	✓	-	
Chainline (mm)		50	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		40T	34-38T	34-38T	34-38T	34-38T	34-38T	
Total capacity		18T	10T	10T	10T	10T	10T	
Applicable Top-Mid tooth difference		10T	-	-	-	-	-	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		✓	✓	✓	✓	✓	✓	
Angled clamp band design		✓	-	-	✓	✓	-	
Link bushings		6	6	6	6	6	8	
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	Anodized	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel	
	Finish	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating	
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	Stainless steel	
	Finish	Black	Black	Black	Black	Black	-	
Average Weight (pc) (Band type: L size, direct type w/ bolt)		112.0 g	116 g	102 g	129 g	111 g	141.3 g	
Note			* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.			* Compatible with the special crankset which chainline is 3 mm outboard.	

Front Derailleur

Series		XTR	XTR	XTR	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	
Model no.		FD-M9025-E	FD-M9025-H	FD-M9025-L	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	11	11	11	12	12	12	
Compatible chain		HG-X11	HG-X11	HG-X11	HG 12-speed	HG 12-speed	HG 12-speed	
Action	TOP SWING	✓	-	✓	-	-	-	
	Down Swing	-	✓	-	-	-	-	
	SIDE SWING	-	-	-	✓	✓	✓	
Mount	Clamp Band	28.6 mm	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	-	-	
		31.8 mm	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	-	-	
		34.9 mm	-	✓	✓	-	-	
	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	-	-	-	✓	✓	✓	
Chainline (mm)		48.8*	48.8	48.8	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		34-38T	34-38T	34-38T	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		2	8	2	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	Steel	Aluminum	Steel	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Anodized	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	Nickel Plating	Nickel Plating	Nickel Plating	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	Steel	Steel	Steel	
	Finish	-	-	-	Black	Black	Black	
Average Weight (pc) (Band type: L size, direct type w/ bolt)		124 g	147.2 g	132.9 g	135 g	106 g	114 g	
Note		* Compatible with the special crankset which chainline is 3 mm outboard.				* S-size adapter is available in OTC package only Chainline 48.8 mm, 51.8 mm compatible		

- SL
- SLMT
- SMSL
- BL
- BL
- ST
- ST
- RD
- FD
- BR
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- BR
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- 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-M8000-D	FD-M8000-E	FD-M8000-H	FD-M8000-L	FD-M8020-D	FD-M8020-E	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	2	2	
	Rear	11	11	11	11	11	11	
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	
Action	TOP SWING	-	-	-	-	-	-	
	Down Swing	-	-	-	-	-	-	
	SIDE SWING	✓	✓	✓	✓	✓	✓	
Mount	Clamp Band	28.6 mm	-	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	-	
		31.8 mm	-	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	-	
		34.9 mm	-	-	✓	✓	-	
	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	✓	✓	✓	✓	✓	✓	
	Chainline (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		40T	40T	40T	40T	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		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	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	Steel	Steel	
	Finish	Black	Black	Black	Black	Black	Black	
Average Weight (pc) (Band type: L size, direct type w/ bolt)		136 g	121 g	151 g	135 g	134 g	120 g	
Note						* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.	

Front Derailleur

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	
Model no.		FD-M8020-H	FD-M8020-L	FD-M8025-H	FD-M8025-L	FD-M8025-D	FD-M8025-E	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	2	2	2	
	Rear	11	11	11	11	11	11	
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	
Action	TOP SWING	-	-	-	✓	-	✓	
	Down Swing	-	-	✓	-	✓	-	
	SIDE SWING	✓	✓	-	-	-	-	
Mount	Clamp Band	28.6 mm	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	-	
		31.8 mm	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	-	
		34.9 mm	✓	✓	✓	✓	-	
	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	✓	✓	-	-	-	-	
Chainline (mm)		48.8	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		34-38T	34-38T	34-38T	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	8	2	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	-	-	Black	Black	-	-	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Aluminum	Aluminum	Steel	Aluminum	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	Plated	Plated	Plated	Plated	Plated	Plated	
Cable fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	Black	Black	Black	Black	
Stroke adjusting screw	Material	Steel	Steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	-	-	-	-	
Average Weight (pc) (Band type: L size, direct type w/ bolt)		145 g	129 g	149 g	131 g	139 g	124 g	
Note						* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.	

- SL
- SLMT
- SMSL
- BL
- BL
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- BB
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- HB
- FH
- FH
- WH
- CI-DECK

Front Derailleur

Series		SLX	SLX	SLX	SLX	SLX	SLX	
Model no.		FD-M7100-D	FD-M7100-E	FD-M7100-M	FD-M7020-11-D	FD-M7020-11-E	FD-M7020-11-H	
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	28.6 mm	-	-	-	-	-	
		31.8 mm	-	-	✓ (w/ M size adapter)	-	-	✓ (w/ M size adapter)
		34.9 mm	-	-	✓	-	-	✓
	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	✓	✓	✓	✓	✓	✓	
Chainline (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	4	4	4	
Front clamp band	Material	-	-	Aluminum	-	-	Aluminum	
	Finish	-	-	Painted	-	-	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	-	-	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Aluminum	Aluminum	Aluminum	GFRP + Steel	GFRP + Steel	GFRP + Steel	
	Finish	Painted	Painted	Painted	-	-	-	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Plated	Plated	Plated	
Cable fixing 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 (pc) (Band type: L size, direct type w/ bolt)		135 g	106 g	114 g	136 g	122 g	147 g	
Note				* S-size adapter is available in OTC package only Chainline 48.8 mm, 51.8 mm compatible			* S-size adapter is available in OTC package only.	

Front Derailleur

Series		SLX	SLX	SLX	SLX	SLX	SHIMANO DEORE XT	
Model no.		FD-M7020-11-L	FD-M7025-11-D	FD-M7025-11-E	FD-M7025-11-H	FD-M7025-11-L	FD-M785	
Color	1	Series color	Series color	Series color	Series color	Series color	Black	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	2	2	2	
	Rear	11	11	11	11	11	10	
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X 10-speed	
Action	TOP SWING	-	-	✓	-	✓	✓	
	Down Swing	-	✓	-	✓	-	-	
	SIDE SWING	✓	-	-	-	-	-	
Mount	Clamp Band	28.6 mm	.*	-	-	.*	✓ (w/ S size adapter)	
		31.8 mm	✓ (w/ M size adapter)	-	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9 mm	✓	-	-	✓	✓	
	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	✓	-	-	-	-	-	
Chainline (mm)		48.8	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		34-38T	34-38T	34-38T	34-38T	34-38T	38-44T	
Total capacity		10T	10T	10T	10T	10T	14T	
Applicable Top-Mid tooth difference		-	-	-	-	-	-	
Multi access cable fixing bolt		-	-	-	-	-	✓	
Angled stroke adjust bolt		✓	✓	✓	✓	✓	✓	
Angled clamp band design		✓	-	-	✓	✓	✓	
Link bushings		4	6	6	6	6	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	Aluminum	Aluminum	Aluminum	Aluminum	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	Plated	Plated	Plated	Plated	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 (pc) (Band type: L size, direct type w/ bolt)		132 g	140 g	123 g	152 g	133 g	136 g	
Note		* S-size adapter is available in OTC package only.			* S-size adapter is available in OTC package only.	* S-size adapter is available in OTC package only.	* Outer casing stopper integrated design.	

SL

SLMT

SMSL

BL

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RD

FD

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HB

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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-E2	FD-M786	FD-M786-D	FD-M770	FD-M770-E	FD-M771	
Color	1	Black	Black	Black	Series color	Series color	Series color	
	2	-	Silver	Silver	-	-	-	
Speeds	Front	2	2	2	3	3	3	
	Rear	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	
Action	TOP SWING	✓	-	-	✓	✓	-	
	Down Swing	-	✓	✓	-	-	✓	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp Band	28.6 mm	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)
		31.8 mm	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)
		34.9 mm	-	✓	-	✓	-	✓
	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	-	-	-	-	-	-	
Chainline (mm)		48.8	48.8	48.8	50	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	44T/48T	44T	44T	
Total capacity		14T	14T	14T	22T	22T	22T	
Applicable Top-Mid tooth difference		-	-	-	12T	12T	12T	
Multi access cable fixing bolt		✓	-	-	-	-	-	
Angled stroke adjust bolt		✓	✓	✓	✓	✓	✓	
Angled clamp band design		-	✓	-	✓	-	✓	
Link bushings		2	8	8	2	2	8	
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	Aluminum	Aluminum	Steel	Steel	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 (pc) (Band type: L size, direct type w/ bolt)		127 g	155 g	146 g	152 g	166 g	155 g	
Note					* 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-D	FD-M772A	FD-M773	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	28.6 mm	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8 mm	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9 mm	-	✓	✓	✓	✓	
	E-type	With bottom bracket plate	-	-	-	-	-	-
		Without bottom bracket plate	-	-	-	-	-	-
	Direct Mount	✓	-	-	-	-	-	
Cable route type	Dual-Pull	✓	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓	✓	-	
	Top-Pull exclusive	-	✓	✓	-	-	-	
	Down-Pull exclusive	-	-	-	-	-	-	
	Front-Pull	-	-	-	-	-	✓	
Chainline (mm)		50	50	50	50	50	50	
Chain stay angle		66-69	63-66	66-69	66-69	66-69	66-69	
Top gear teeth		44T	44T/48T	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	2	7	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	Steel	Aluminum	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 (pc) (Band type: L size, direct type w/ bolt)		147 g	160 g	174 g	155 g	158 g	-	
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-M6020-H	FD-M6020-M	
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	28.6 mm	✓ (w/ S size adapter)	✓ (w/ S size adapter)	-	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)
		31.8 mm	✓ (w/ M size adapter)	✓ (w/ M size adapter)	-	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9 mm	✓	✓	-	-	✓	✓
	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	✓	✓	✓	✓	✓	✓	
Chainline (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	4	4	
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	GFRP + Steel	GFRP + Steel	
	Finish	-	-	-	-	-	-	
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	Steel	Steel	
	Finish	Black	Black	Black	Black	Black	Black	
Average Weight (pc) (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-M6020-L	FD-M6020-D	FD-M6020-E	FD-M6025-H	FD-M6025-L	FD-M6025-D	
Color	1	Series Black	Series Black	Series Black	Series Black	Series Black	Series Black	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	2	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	28.6 mm	✓ (w/ S size adapter)	-	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8 mm	✓ (w/ M size adapter)	-	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9 mm	✓	-	-	✓	✓	
	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	✓	✓	✓	-	-	-	
Chainline (mm)		48.8	48.8/51.8*	48.8/51.8*	48.8	48.8	48.8/51.8*	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		34-38T	34-38T	34-38T	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		4	4	4	8	2	8	
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	Aluminum	Steel	Aluminum	
	Finish	-	-	-	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Plated	Plated	Plated	Plated	Plated	Plated	
Cable fixing 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 (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note			* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.			* Compatible with the special crankset which chainline is 3 mm outboard.	

- SL
- SLMT
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- BL
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- BB
- BB
- CS
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- 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-M6025-E	FD-M617-H	FD-M617-L	FD-M617-D	FD-M617-E	FD-M618-H	
Color	1	Series Black	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 10speed	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	28.6 mm	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	
		31.8 mm	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	
		34.9 mm	-	✓	✓	-	✓	
	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	-	✓	✓	✓	✓	-	
Chainline (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		34-38T	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		2	4	4	4	4	8	
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	Steel	GFRP + Steel	GFRP + Steel	GFRP + Steel	GFRP + Steel	Aluminum	
	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	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	-	
Average Weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note		* Compatible with the special crankset which chainline is 3 mm outboard.			* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.		

Front Derailleur

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	
Model no.		FD-M618-L	FD-M618-D	FD-M618-E	FD-M610-B	FD-M610-E	FD-M611-B	
Color	1	Black	Black	Black	Black	Black	Black	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	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	28.6 mm	✓ (w/ S size adapter)	-	-	✓ (w/ S size adapter)	-	
		31.8 mm	✓ (w/ M size adapter)	-	-	✓ (w/ M size adapter)	-	
		34.9 mm	✓	-	-	✓	-	
	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	-	-	-	-	-	-	
Chainline (mm)		48.8	48.8*	48.8*	50	50	50	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		36-38T	36-38T	36-38T	40-42T	40-42T	40-42T	
Total capacity		14T	14T	14T	18T	18T	18T	
Applicable Top-Mid tooth difference		-	-	-	10T	10T	10T	
Multi access cable fixing bolt		-	-	-	✓	✓	-	
Angled stroke adjust bolt		✓	✓	✓	✓	✓	✓	
Angled clamp band design		✓	-	-	✓	-	✓	
Link bushings		2	8	2	2	2	8	
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	-	Stainless steel	
	Finish	-	-	-	-	-	-	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Aluminum	Steel	Steel	Steel	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	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 (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note			* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 3 mm outboard.				

SL

SLMT

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Front Derailleur

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO ALIVIO	
Model no.		FD-M611-D	FD-M615-B	FD-M615-E2	FD-M616-B	FD-M616-D	FD-M4020-M	
Color	1	Black	Black	Black	Black	Black	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	2	2	2	2	2	
	Rear	10	10	10	10	10	9	
Compatible chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	
Action	TOP SWING	-	✓	✓	-	-	-	
	Down Swing	✓	-	-	✓	✓	-	
	SIDE SWING	-	-	-	-	-	✓	
Mount	Clamp Band	28.6 mm	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	-	
		31.8 mm	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)	-	
		34.9 mm	-	✓	-	✓	-	
	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	-	-	-	-	-	✓	
Chainline (mm)		50	48.8	48.8	48.8	48.8	48.8	
Chain stay angle		66-69	66-69	66-69	66-69	66-69	64-69	
Top gear teeth		40-42T	38-44T	38-40T	38-44T	38-44T	36T	
Total capacity		18T	14T	14T	14T	14T	14T	
Applicable Top-Mid tooth difference		10T	-	-	-	-	-	
Multi access cable fixing bolt		-	✓	✓	-	-	-	
Angled stroke adjust bolt		✓	✓	✓	✓	✓	✓	
Angled clamp band design		-	✓	-	✓	-	-	
Link bushings		8	2	2	8	8	4	
Front clamp band	Material	-	Aluminum	-	Aluminum	-	Steel	
	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	Steel	Steel	Aluminum	Aluminum	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	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 (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note								

Front Derailleur

Series		SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	
Model no.		FD-M4020-M-B	FD-M4020-D	FD-M4020-E	FD-M4000-M	FD-M4000-TS6	FD-M4000-DS6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	2	2	2	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	28.6 mm	✓ (w/ S size adapter)	-	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8 mm	✓ (w/ M size adapter)	-	-	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9 mm	✓	-	-	✓	✓	
	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	✓	✓	✓	✓	-	-	
Chainline (mm)		51.8*	48.8/51.8*	48.8/51.8*	50	50	50	
Chain stay angle		64-69	64-69	64-69	66-69	66-69	66-69	
Top gear teeth		36T	36T	36T	40T	40T	40T	
Total capacity		14T	14T	14T	18T	18T	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	4	-	2	
Front clamp band	Material	Steel	-	-	Steel	Steel	Steel	
	Finish	Painted	-	-	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	-	-	Stainless steel	Stainless steel	Stainless steel	
	Finish	-	-	-	-	-	-	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	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 (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note		-	* Compatible with the special crankset which chainline is 3 mm outboard.	* Compatible with the special crankset which chainline is 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

Front Derailleur

Series		SHIMANO ACERA	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	
Model no.		FD-M3000-TS6	FD-M2020-TS	FD-M2000-TS3	FD-M2000-TS6	FD-M2000-DS3	FD-M2000-DS6	
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	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	28.6 mm	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8 mm	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9 mm	✓	✓	✓	✓	✓	
	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	-	-	-	-	-	-	
Chainline (mm)		50	48.8/51.8*	50	50	50	50	
Chain stay angle		66-69	64-69	63-66	66-69	63-66	66-69	
Top gear teeth		40T	36T	40T	40T	40T	40T	
Total capacity		18T	14T	18T	18T	18T	18T	
Applicable Top-Mid tooth difference		10T	-	10T	10T	10T	10T	
Multi access cable fixing 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	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Stainless steel	Steel	Steel	Steel	Steel	Steel	
	Finish	-	Nickel Plated	Nickel Plated	Nickel Plated	Nickel Plated	Nickel Plated	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Zinc plated	Zinc plated	Zinc plated	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted/Zinc plated	Painted/Zinc plated	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing 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	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average Weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note			* Boost Spec					

Front Derailleur

Series		SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	SHIMANO ALTUS	
Model no.		FD-M370-3	FD-M370-6	FD-M371-3	FD-M371-6	FD-M315-TS	FD-M313-3	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	2	3	
	Rear	9	9	9	9	8/7	8/7	
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 8/7-speed	HG 8/7-speed	
Action	TOP SWING	✓	✓	-	-	✓	-	
	Down Swing	-	-	✓	✓	-	✓	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp Band	28.6 mm	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8 mm	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9 mm	✓	✓	✓	✓	✓	
	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	-	-	-	-	-	-	
Chainline (mm)		50	50	50	50	48.8/51.8*	47.5/50	
Chain stay angle		63-66	66-69	63-66	66-69	64-69	63-66	
Top gear teeth		44T/48T	44T/48T	44T/48T	44T/48T	36T	42T/48T	
Total capacity		22T	22T	22T	22T	14T	20T	
Applicable Top-Mid tooth difference		12T	12T	12T	12T	-	10T	
Multi access cable fixing 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	Aluminum	Aluminum	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	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Zinc plated	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
Cable fixing 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 (pc) (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 TOURNEY TX	SHIMANO TOURNEY TX	SHIMANO TOURNEY	
Model no.		FD-M313-6	FD-M310-3	FD-M310-6	FD-TX800-TS3	FD-TX800-TS6	FD-TY700-TS3	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3	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	28.6 mm	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8 mm	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9 mm	✓	✓	✓	✓	✓	
	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	-	-	-	-	-	-	
Chainline (mm)		47.5/50	47.5/50	47.5/50	47.5/50	47.5/50	47.5/50	
Chain stay angle		66-69	63-66	66-69	63-66	66-69	63-66	
Top gear teeth		42T/48T	42T/48T	42T/48T	42T/48T	42T/48T	42T	
Total capacity		20T	20T	20T	20T	20T	18T	
Applicable Top-Mid tooth difference		10T	10T	10T	10T	10T	8T	
Multi access cable fixing 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	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	Painted	Painted	Painted	Zinc plated	Zinc plated	Zinc plated	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	Chrome plated	
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 (pc) (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-TY700-TS6	FD-TY710-2-TS3	FD-TY710-TS3	FD-TY710-TS6	FD-TY500-TS3	FD-TY500-TS6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	2	3	3	3	3	
	Rear	8/7	8/7	8/7	8/7	7/6	7/6	
Compatible chain		HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG 8/7-speed	HG-UG 7/6-speed	HG-UG 7/6-speed	
Action	TOP SWING	✓	✓	✓	✓	✓	✓	
	Down Swing	-	-	-	-	-	-	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp Band	28.6 mm	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8 mm	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9 mm	✓	✓	✓	✓	✓	
	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	-	-	-	-	-	-	
Chainline (mm)		47.5/50	48.8	47.5/50	47.5/50	47.5/50	47.5/50	
Chain stay angle		66-69	63-68	63-66	66-69	63-66	66-69	
Top gear teeth		42T	46T	48T	48T	42T	42T	
Total capacity		18T	16T	20T	20T	18T	18T	
Applicable Top-Mid tooth difference		8T	-	10T	10T	8T	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	Painted	Painted	Painted	Zinc plated	Zinc plated	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Zinc plated	Zinc plated	
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/ Painted	Chrome plated/ Painted	
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 (pc) (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	SHIMANO TOURNEY	SHIMANO TOURNEY	SHIMANO TOURNEY TZ	SHIMANO TOURNEY TZ	
Model no.		FD-TY510-TS3	FD-TY510-TS6	FD-TY300-DS6	FD-TY300-DS6	FD-TZ500-DS6	FD-TZ510-DS6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	3	3 (friction)	3 (friction)	
	Rear	7/6	7/6	7/6	7/6	7/6	7/6	
Compatible chain		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	HG-UG 7/6-speed	
Action	TOP SWING	✓	✓	-	-	-	-	
	Down Swing	-	-	✓	✓	✓	✓	
	SIDE SWING	-	-	-	-	-	-	
Mount	Clamp Band	28.6 mm	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓	-	✓	
		31.8 mm	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓	-	✓	
		34.9 mm	✓	✓	-	✓	-	
	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	-	-	-	-	-	-	
Chainline (mm)		47.5/50	47.5/50	47.5	50	47.5	47.5	
Chain stay angle		63-66	66-69	66-69	66-69	66-69	66-69	
Top gear teeth		48T	48T	42T	42T	42T	48T	
Total capacity		20T	20T	18T	18T	18T	20T	
Applicable Top-Mid tooth difference		10T	10T	8T	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	Zinc plated	Zinc plated	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Painted	Painted	Painted	Painted	
Clamp bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Zinc plated	Zinc plated	
Bottom bracket plate	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Outer link	Material	Steel	Steel	Steel/Resin	Steel/Resin	Steel/Resin	Steel/Resin	
	Finish	Zinc plated	Zinc plated	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Zinc plated	Zinc plated	Painted	Painted	
Chain guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Chrome plated/ Painted	Chrome plated/ Painted	Zinc plated	Zinc plated	Painted	Painted	
Cable fixing bolt	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel plated	Nickel plated	Nickel plated	Nickel plated	Zinc plated	Zinc plated	
Stroke adjusting screw	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	Zinc plated	
Average Weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note								

Brake (Hydraulic disc brake)

Series		XTR	XTR	XTR	XTR	SAINT	SHIMANO DEORE XT
Model no.		BR-M9100	BR-M9120	BR-M9000	BR-M9020	BR-M820	BR-M8100
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SS	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBLS	SM-BH90-SBM
Hose joint		Straight	Banjo	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)	N03A Resin pad (w/ radiator fin)	G02A Resin G03A Resin	J02A Resin J03A Resin	H01A Resin H03A Resin	G03A Resin (w/o fin)
	Standard 2	K04Ti Metal pad w/o fin (w/ titanium back plate)	N04C Metal pad (w/ radiator fin)	G04Ti Metal	J04C Metal	H03C Metal	G04S Metal (w/o fin)
	Option 1	-	-	J02A Resin J03A Resin	G02A Resin G03A Resin	-	J03A Resin (w/ fin)
	Option 2	-	-	J04C Metal	G04Ti Metal	-	J04C Metal (w/ fin)
Fixing BT Spec for rear mount	10 mm mount	-	-	-	-	-	-
	15 mm mount	-	-	-	-	-	-
	20 mm mount	-	-	-	-	-	-
	25 mm mount	-	-	-	-	-	-
	30 mm mount	-	-	-	-	-	-
	35 mm mount	-	-	-	-	-	-
Recommended brake lever		BL-M9100	BL-M9120	BL-M9000	BL-M9020	BL-M820	BL-M8100
Recommended disc brake rotor		RT-MT900	RT-MT900	SM-RT99 * SM-RT99-A	SM-RT99 * SM-RT99-A	SM-RT99 SM-RT86	RT-MT800
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	-	✓	✓	✓	✓
Mount type (available for IS mount with mount adapter)		Post-type	Post-type	Post-type	Post-type	Post-type	Post-type
Piston		2	4	2	2	4	2
Piston material		Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Caliper	MONO-BODY	✓	-	-	✓	-	-
	Material	Aluminum	Aluminum	Magnesium	Aluminum	Aluminum	Aluminum
	Finish	Anodizing	Painted	Painted	Painted	Painted	Painted
Caliper fixing bolt	Material	Ti	Ti	Ti	Ti	Steel	Steel
	Tool size	** 4 mm	** 4 mm	** 4 mm	** 4 mm	5 mm	5 mm
	Anti loosen method	Wiring	Wiring	Wiring	Wiring	Snap ring	Snap ring
Pad mount		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Pad axle
Average Weight (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 g	385 g (w/ radiator fin)	316.1 g	359.6 g	306 g** (w/ radiator fin)	392 g
Note		** Titanium	** 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	SLX	SLX	ZEE
Model no.		BR-M8120	BR-M8000	BR-M8020	BR-M7100	BR-M7120	BR-M640
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SBM	SM-BH90-SB	SM-BH90-SBLS	SM-BH90-SBM	SM-BH90-SBM	SM-BH90-SBS
Hose joint		Banjo	Banjo	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	N03A Resin (w/ fin)	G02A Resin G03A Resin	H01A Resin H03A Resin	G03S Resin (w/o fin)	D03S Resin (w/o fin)	D01S Resin D03S Resin
	Standard 2	N04C Metal (w/ fin)	J02A Resin J03A Resin	H03C Metal	G04S Metal (w/o fin)	N03A Resin (w/ fin)	D02S Metal
	Option 1	D03S Resin (w/o fin)	G04S Metal	D01S Resin D03S Resin	J03A Resin (w/ fin)	D02S Metal (w/o fin)	H01A Resin H03A Resin
	Option 2	D02S Metal (w/o fin)	J04C Metal	-	J04C Metal (w/ fin)	N04C Metal (w/ fin)	-
Fixing BT 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-M8000	BL-M8000	BL-M7100	BL-M7100	BL-M640
Recommended disc brake rotor		RT-MT800	RT-MT800 SM-RT86	RT-MT800 SM-RT99 RT-EM810 RT-EM910	SM-RT70	SM-RT70	SM-RT66
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		-	✓	✓	✓	-	✓
Mount type (available for IS mount with mount adapter)		Post-type	Post-type	Post-type	Post-type	Post-type	Post-type
Piston		4	2	4	2	4	4
Piston material		Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Caliper	MONO-BODY	-	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Caliper fixing 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		Pad axle	Pad axle	Pad axle	Pad axle	Pad axle	Split pin
Average Weight (kit for front 800 mm, w/ 160 mm recommended disc brake rotor, w/ lock ring, w/o adapter, w/ 2 bolts, w/ resin pad)		410 g	402.5 g	-	425 g	444 g	314 g**
Note		-	-	-	-	-	** Single item weight

Brake (Hydraulic disc brake)

Series		SHIMANO DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BR-M6000	BR-MT520	BR-MT500	BR-MT420	BR-MT400	BR-MT200
Color	1	Series Black	Black	Black	Black	Black	Black
	2	Series Silver *	-	-	-	Silver	-
	3	Black (SHIMANO logo) ***	-	-	-	-	-
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Brake hose (kit)		SM-BH90-SS	SM-BH90-SS	SM-BH59-JK-SS	SM-BH90-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	G02S Resin, G03S Resin	D03S resin	B01S resin	D03S Resin	B01S Resin	B01S Resin
	Standard 2	J02A Resin ** J03A Resin **	D02S Metal	-	D02S Metal	-	-
	Option 1	G04S Metal **	-	-	-	-	-
	Option 2	-	-	-	-	-	-
Fixing BT 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-M6000 BL-T6000	BL-MT501	BL-MT500	BL-MT401 BL-MT402-3A	BL-MT400 BL-MT401 BL-MT401-3A BL-MT402-3A	BL-MT201 BL-MT200
Recommended disc brake rotor		SM-RT64 SM-RT66 SM-RT54 SM-RT56	SM-RT70	SM-RT54 SM-RT56	SM-RT30 * SM-RT54 * SM-RT56 * SM-RT64	SM-RT30 SM-RT54 SM-RT56	SM-RT10 SM-RT26
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓	✓
Mount type (available for IS mount with mount adapter)		Post-type	Post-type	Post-type	Post-type	Post-type	Post-type
Piston		2	4	2	4	2	2
Piston material		Resin	Ceramic	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 (stainless steel)	Split pin	Split pin (stainless steel)	Split pin	Split pin	Split pin
Average Weight (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		J-Kit spec available * T6000 kit only ** M6000 kit only *** Both M6000 kit and T6000 kit	-	-	* Only compatible with resin pad	-	-

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
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 BT 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
Oil		SHIMANO Mineral
ONE WAY BLEEDING		✓
Mount type (available for IS mount with mount adapter)		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 (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		-

Brake (Mechanical disc brake)

Series		SHIMANO	SHIMANO TOURNEY TX
Model no.		BR-M375	BR-TX805
Color	1	Black	Black
	2	Silver	-
	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		-	-
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		184 g
Note		

ARCHIVE

- 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 Chainwheel

Series		XTR	XTR	XTR	XTR	SHIMANO DEORE XT	SHIMANO DEORE XT
Model no.		FC-M9100-2	FC-M9120-B2	FC-M9100-1	FC-M9120-1	FC-M8100-2	FC-M8120-B2
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 (Front double)	12 (Front double)
Compatible chain		CN-M9100	CN-M9100	CN-M9100	CN-M9100	HG 12-speed	HG 12-speed
Chainline (mm)		48.8	51.8	52	52	48.8	51.8
O.L.D. (mm)		142	148	142, 148	142, 148	142	148
P.C.D. (mm)		Direct	Direct	Direct	Direct	Direct	Direct
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chaining combination		38-28T	38-28T	30T, 32T, 34T, 36T, 38T	30T, 32T, 34T, 36T, 38T	36-26T	36-26T
Q-factor (mm)		162	168	162	168	172	178
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	BB-MT800	BB-MT800
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	SM-BB94-41A	BB-MT800-PA	BB-MT800-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	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	Anodized	Anodized
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Aluminum	Aluminum	-	-	Steel	Steel
	Finish	Plated	Plated	-	-	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	-	-	Aluminum	Aluminum
	Finish	Anodized	Anodized	-	-	Anodized	Anodized
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average Weight (175 mm, w/o bottom bracket)		597 g	616 g	551 g (38T) 543 g (36T) 544 g (34T) 531 g (32T) 528 g (30T)	569 g (38T) 561 g (36T) 562 g (34T) 548 g (32T) 545 g (30T)	650 g	662 g
Note		-	-	-	-	-	-

Front Chainwheel

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX	SLX	SLX
Model no.		FC-M8100-1	FC-M8120-1	FC-M8130-1	FC-M7100-2	FC-M7120-B2	FC-M7100-1
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12	12	12	12 (Front double)	12 (Front double)	12
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed
Chainline (mm)		52	55	56.5	48.8	51.8	52
O.L.D. (mm)		142, 148	148	157	142	148	142, 148
P.C.D. (mm)		Direct	Direct	Direct	Direct	Direct	Direct
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chaining combination		28T, 30T, 32T, 34T, 36T	28T, 30T, 32T, 34T, 36T	28T, 30T, 32T, 34T	36-26T	36-26T	30T, 32T, 34T
Q-factor (mm)		172	178	181	172	178	172
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)	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/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	Anodized	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Steel (teeth), CFRP (body), Aluminum (arm)	Steel (teeth), CFRP (body), Aluminum (arm)	Steel (teeth), CFRP (body), Aluminum (arm)	Aluminum	Aluminum	Steel (teeth), GFRP (body), Aluminum (arm)
	Finish	Painted (teeth), Anodized (arm)	Painted (teeth), Anodized (arm)	Painted (teeth), Anodized (arm)	Anodized	Anodized	Painted (teeth), Painted (arm)
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	-	-	-	Steel	Steel	-
	Finish	-	-	-	Painted	Painted	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Plated	Plated	Plated
Inner ring fixing bolt	Material	-	-	-	Stainless steel	Stainless steel	-
	Finish	-	-	-	Painted	Painted	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average Weight (175 mm, w/o bottom bracket)		651 g (36T) 633 g (34T) 620 g (32T) 622 g (30T) 608 g (28T)	660 g (36T) 642 g (34T) 628 g (32T) 630 g (30T) 616 g (28T)	668 g (36T) 650 g (34T) 636 g (32T) 639 g (30T) 624 g (28T)	673 g	684 g	646 g (34T) 631 g (32T) 634 g (30T)
Note							

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Front Chainwheel

Series		SLX	SLX	SHIMANO	SHIMANO	XTR	XTR
Model no.		FC-M7120-1	FC-M7130-1	FC-MT900-1	FC-MT610	FC-M9000-1	FC-M9000-2
Color	1	Series color	Series color	Black	Black	Series color	Series color
	2	-	-	-	-	-	-
Rear speeds		12	12	12	12	11	11
Compatible chain		HG 12-speed	HG 12-speed	HG 12-speed	HG 12-speed	HG-X11	HG-X11
Chainline (mm)		55	56.5	52	52	50.4	48.8
O.L.D. (mm)		148	157	142, 148	142, 148	142	142
P.C.D. (mm)		Direct	Direct	Direct	96	96	96/64
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm ***	4 arm ***
Chainring combination		30T, 32T, 34T	30T, 32T, 34T	32T, 34T	30T, 32T, 34T	36T, 34T, 32T, 30T (SM-CRM91)	38-28T 36-26T 34-24T
Q-factor (mm)		178	181	172	177	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)	BB-MT800	BB-MT800	SM-BB93	BB-MT800	SM-BB93	SM-BB93
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	BB-MT800-PA	BB-MT800-PA	SM-BB94-41A	BB-MT800-PA	SM-BB94-41A	SM-BB94-41A
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	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)	Steel (teeth), GFRP (body), Aluminum (arm)	Aluminum	Steel +GF composite	Aluminum	Titanium, Aluminum, CFRP
	Finish	Painted (teeth), Painted (arm)	Painted (teeth), Painted (arm)	Plated	Plated (teeth)	Anodized	Anodized
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	-	-	-	-	-	Aluminum
	Finish	-	-	-	-	-	Plated
Outer/middle ring fixing bolt	Material	Steel	Steel	Aluminum	Steel	Aluminum	Aluminum
	Finish	Plated	Plated	Anodized	Plated	-	-
Inner ring fixing bolt	Material	-	-	-	-	-	Aluminum
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average Weight (175 mm, w/o bottom bracket)		653 g (34T) 638 g (32T) 641 g (30T)	662 g (34T) 647 g (32T) 650 g (30T)	590 g (34T) 587 g (32T)	784 g (34T) 772 g (32T) 758 g (30T)	616 g (36T) 600 g (34T) 598 g (32T) 586 g (30T)	649 g (38-28T) 631 g (36-26T) 611 g (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

Front Chainwheel

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-M8000-1
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
Chainline (mm)		50.4	53.4	48.8	51.8	50	50.4
O.L.D. (mm)		142	148	142	148	142	142
P.C.D. (mm)		96	96	96/64	96/64	96/64	96
Gear arms		4 arm ***	4 arm ***	4 arm ***	4 arm	4 arm ***	4 arm
Chaining combination		36T, 34T, 32T, 30T (SM-CRM91)	32T, 30T (SM-CRM91)	38-28T 36-26T 34-24T	36-26T 34-24T	40-30-22T	34T, 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	-	-	-	-	-	-
	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-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/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	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 (175 mm, w/o bottom bracket)		620 g (36T) 603 g (34T) 586 g (32T) 578 g (30T)	601 g (32T) 593 g (30T)	667 g (38-28T) 649 g (36-26T) 629 g (34-24T)	664 g (36-26T) 645 g (34-24T)	656 g	699.8 g (34T) 694.5 g (32T) 680.0 g (30T)
Note		* 36T/34T is hollow, 32T/30T is not hollow ** 32T/30T is Stainless steel/ Aluminum *** Spider arm angle is special	- Chainline 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.	w/o chaining spec available for OTC, chaining is sold separately (SM-CRM80)

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Front Chainwheel

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX	SLX
Model no.		FC-M8000-B1	FC-M8000-2	FC-M8000-B2	FC-M8000-3	FC-M7000-11-1	FC-M7000-11-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
Chainline (mm)		53.4	48.8	51.8	50	50	53
O.L.D. (mm)		148	142	148	142	142	148
P.C.D. (mm)		96	96/64	96/64	96/64	96	96
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chaining combination		32T, 30T (SM-CRM81)	38-28T 36-26T 34-24T	36-26T 34-24T	40-30-22T	34T, 32T, 30T (SM-CRM70)	32T, 30T (SM-CRM70)
Q-factor (mm)		176	176	176	176	176	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)	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	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Steel +CF composite	Aluminum / CFRP	Aluminum +CF composite	Aluminum, GFRP	Steel +GF composite	Steel +GF composite
	Finish	Plated (teeth), Painted (body)	Plated (teeth), Painted (body)	Plated (teeth), Painted (body)	Anodized (teeth,body)	Plated (teeth)	Plated (teeth)
Middle ring	Material	-	-	-	Steel/CFRP	-	-
	Finish	-	-	-	Plated(teeth)	-	-
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	Anodized	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 (175 mm, w/o bottom bracket)		698.0 g (36T)	738.9 g (38-28T) 718.1 g (36-26T) 695.5 g (34-24T)	721.6 g (36-26T)	773.9 g	721.1 g (34T) 715.4 g (32T) 699.3 g (30T)	718.3 g (32T) 702.3 g (30T)
Note		- Chainline 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.		- Chainline 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) - w/o chaining spec available for OTC, chaining is sold separately (SM-CRM70)	

Front Chainwheel

Series		SLX	SLX	SHIMANO	SHIMANO	SHIMANO	SAINT
Model no.		FC-M7000-11-2	FC-M7000-11-B2	FC-MT700-B2	FC-MT600-2	FC-MT600-B2	FC-M820
Color	1	Series color	Series color	Black	Black	Black	Series color
	2	-	-	-	-	-	-
Rear speeds		11	11	11	11	11	10
Compatible chain		HG-X11	HG-X11	HG-X11	HG-X11	HG-X11	HG-X 10-speed
Chainline (mm)		48.8	51.8	51.8	48.8	51.8	50.4
O.L.D. (mm)		142	148	148	142	148	135, 142
P.C.D. (mm)		96/64	96/64	96/64	96/64	96/64	104
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chaining combination		38-28T 36-26T 34-24T	36-26T 34-24T	36-26T 34-24T	36-26T	36-26T	38T, 36T, 34T (SM-CR82)
Q-factor (mm)		176	176	175	177	177	178
Crank arm length (mm)	165.0	-	-	-	-	-	✓
	167.5	-	-	-	-	-	-
	170.0	✓	✓	✓	✓	✓	✓
	172.5	-	-	-	-	-	-
	175.0	✓	✓	✓	✓	✓	✓
	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)	BB-MT800	BB-MT800	BB-MT800	BB-MT800	BB-MT800	SM-BB80
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	BB-MT800-PA	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	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum +GF composite	Aluminum +GF composite	Aluminum +GF composite	Aluminum +GF composite	Aluminum +GF composite	-
	Finish	Plated (teeth)	Plated (teeth)	Plated (teeth)	Anodized	Anodized	-
Middle ring	Material	-	-	-	-	-	Aluminum
	Finish	-	-	-	-	-	Anodized
Inner ring	Material	Steel	Aluminum	Aluminum	Steel	Steel	-
	Finish	Painted	Plated	Plated	Painted	Painted	-
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel	Aluminum
	Finish	Anodized	Anodized	-	-	-	Anodized
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 (175 mm, w/o bottom bracket)		788.7 g (28-28T) 761.4 g (36-26T) 739.8 g (34-24T)	764.3 g (36-26T) 742.8 g (34-24T)	738.9 g (36-26T) 712.4 g (34-24T)	-	-	847 g (38T) 837 g (36T) 827 g (34T)
Note		-	Chainline 3 mm outboard	-	-	-	-

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Front Chainwheel

Series		SAINT	SHIMANO DEORE XT	ZEE	ZEE	SHIMANO DEORE	SHIMANO DEORE
Model no.		FC-M825	FC-M785	FC-M640	FC-M645	FC-M6000-3	FC-M6000-2
Color	1	Series color	Black	Series color	Series color	Series Black	Series 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
Chainline (mm)		57.9	48.8	50.4	57.9	50	48.8
O.L.D. (mm)		157	142	135, 142	150, 157	142	142
P.C.D. (mm)		104	104/64	104	104	96/64	96/64
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chaining combination		38T, 36T, 34T (SM-CR82)	40-28T 38-26T 38-24T	38T, 36T, 34T (FC-M640/M645 chaining)	38T, 36T, 34T (FC-M640/M645 chaining)	40-30-22T	38-28T
Q-factor (mm)		193	175	174.7	189.7	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	-	-	-	-	-	-
	Without chain/bash guard	✓	✓	✓	✓	✓	✓
HOLLOWTECH II		✓	✓	-	-	✓	✓
2-PIECE CRANKSET		-	-	✓	✓	-	-
HOLLOWTECH crank arm		-	-	-	-	-	-
OCTALINK		-	-	-	-	-	-
HOLLOWGLIDE		-	-	-	-	-	-
Compatible bottom bracket type	Outboard	✓	✓	✓	✓	✓	✓
	OCTALINK	-	-	-	-	-	-
	Square	-	-	-	-	-	-
Recommended bottom bracket	Threaded (normal)	SM-BB80	-	SM-BB52	SM-BB52	SM-BB52	SM-BB52
	Threaded (E-type)	-	-	SM-BB52	SM-BB52	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	SM-BB71-41C	SM-BB71-41A	SM-BB71-41A	SM-BB71-41C	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	Painted	Painted	Anodized	Anodized
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	-	-	Aluminum	Aluminum
	Finish	Painted	Painted	-	-	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	-	Aluminum	-	-	Aluminum	Aluminum +GF composite
	Finish	-	Anodized	-	-	Anodized	Anodized
Middle ring	Material	Aluminum	-	Aluminum	Aluminum	Steel +GF composite	-
	Finish	Anodized	-	Anodized	Anodized	Plated (teeth)	-
Inner ring	Material	-	Aluminum	-	-	Steel	Steel
	Finish	-	Plated	-	-	Painted	Painted
Outer/middle ring fixing bolt	Material	Aluminum	Aluminum	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Anodized	Anodized	-	-	Black	Black
Inner ring fixing bolt	Material	-	Stainless steel	-	-	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average Weight (175 mm, w/o bottom bracket)		858 g (38T) 849 g (36T) 838 g (34T)	727.6 g (40-28T) 717.6 g (38-26T) 715.8 g (38-24T)	828 g (38T) 817 g (36T) 807 g (34T)	858 g (38T) 847 g (36T) 837 g (34T)	-	-
Note		For 83 mm bottom bracket shell width			For 83 mm bottom bracket shell width		

Front Chainwheel

Series		SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO	SHIMANO
Model no.		FC-M6000-2	FC-M6000-B2	FC-M617	FC-M617-B2	FC-MT500-2	FC-MT500-B2
Color	1	Series Black	Series Black	Black	Black	Black	Black
	2	-	-	Silver	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	HG-X 10-speed	HG-X 10-speed
Chainline (mm)		48.8	51.8	48.8	51.8	48.8	51.8
O.L.D. (mm)		142	148	142	148	142	148
P.C.D. (mm)		96/64	96/64	104/64	104/64	96/64	96/64
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chaining combination		36-26T 34-24T	36-26T	38-24T 36-22T	36-22T	36-26T	36-26T
Q-factor (mm)		176	176	176	176	177	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	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA
Axle length of BB-UN/ES (mm)	Threaded (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	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Plated	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Spider arm cover	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Outer ring	Material	Aluminum +GF composite	Aluminum +GF composite	Aluminum	Aluminum	Aluminum +GF composite	Aluminum +GF composite
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Plated	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	-	-	-	-
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 (175 mm, w/o bottom bracket)		-	-	-	-	-	-
Note							

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Front Chainwheel

Series		SHIMANO	SHIMANO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ALTUS	SHIMANO
Model no.		FC-MT500-3	FC-M627-B	FC-M4050	FC-M4050-B2	FC-M2000	FC-M4000
Color	1	Black	Black	Series color	Series color	Series color	Series color
	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
Chainline (mm)		50	51.8	50	51.8	50	50
O.L.D. (mm)		142	148	142	148	142	142
P.C.D. (mm)		96/64	104/64	96/64	104/64	Riveted	96/64
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chaining combination		40-30-22T	36-22T	40-30-22T	36-22T	40-30-22T	40-30-22T
Q-factor (mm)		177	176	176	176	179.6	179.8
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)	SM-BB52	SM-BB52	SM-BB52	SM-BB52	BB-UN100	BB-ES300
	Threaded (E-type)	SM-BB52	SM-BB52	-	-	-	-
	Threaded (chain case)	-	-	-	-	-	-
	Press-fit	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	BB-MT500-PA	-	-
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	-	LL123	118
	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	Painted	Painted	Painted	Painted	Painted
Crank axle	Material	Steel	Steel	Steel	Steel	-	-
	Finish	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	Aluminum	Steel	Steel	Steel	Steel
	Finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Middle ring	Material	Steel	-	Steel	-	Steel	Steel
	Finish	Plated	-	Painted	-	Painted	Painted
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	Stainless steel*	Stainless steel	Stainless steel	Stainless steel	-	Stainless steel
	Finish	-	-	-	-	-	-
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 (175 mm, w/o bottom bracket)		-	-	-	-	-	-
Note		* It is fixed on the threaded middle ring.	- Chainline 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				

Front Chainwheel

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-M3000	FC-MT300-3	FC-MT210-3	FC-MT210-2	FC-MT210-B2	FC-MT200
Color	1	Series color	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
Rear speeds		9	9	9	9	9	9
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Chainline (mm)		50	50	50	48.8	51.8	50
O.L.D. (mm)		142	142	142	142	148	142
P.C.D. (mm)		96/64	104/64 (44-32-22T) 96/64 (40-30-22T)	Riveted	Riveted	Riveted	Riveted
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chaining combination		40-30-22T	44-32-22T 40-30-22T	44-32-22T 40-30-22T	46-30T (NEW) 36-22T	36-22T	40-30-22T
Q-factor (mm)		179.1	176	176	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 (NEW)) - (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)	BB-UN26	BB-MT500	BB-MT500	BB-MT500	BB-MT500	BB-MT500
	Threaded (E-type)	-	-	-	-	-	-
	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/E5 (mm)	Threaded (normal)	LL113	-	-	-	-	-
	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	Anodized	Anodized	Anodized	Painted
Crank axle	Material	-	Steel	Steel	Steel	Steel	Steel
	Finish	-	Plated	Plated	Plated	Plated	Plated
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	-	-	Resin	Resin	Resin	-
	Finish	-	-	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	-	-	Steel
	Finish	Painted	Painted	Painted	-	-	Painted
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	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 (175 mm, w/o bottom bracket)		-	-	-	-	-	-
Note		-	SHIMANO logo	SHIMANO logo	-	Chainline 3 mm outboard	SHIMANO logo

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CI-DECK

Front Chainwheel

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	ACERA	SHIMANO
Model no.		FC-MT101-2	FC-MT101-B2	FC-MT101	FC-M371	FC-M361	FC-M315-2
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	-	-	-	-
Rear speeds		9	9	9	9	8/7	8/7
Compatible chain		HG 9-speed	HG 9-speed	HG 9-speed	HG for 9-speed	HG for 8/7-speed	HG 8/7-speed
Chainline (mm)		48.8	51.8	50	50	50	48.8
O.L.D. (mm)		142	148	142	142	142	142
P.C.D. (mm)		Riveted	Riveted	Riveted	Riveted	104/64	Riveted
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chaining combination		36-22T	36-22T	44-32-22T 40-30-22T	44-32-22T 48-36-26T	48-38-28T 42-32-22T	36-22T
Q-factor (mm)		179.4	179.4	179.2	180.5	185.9	179.4
Crank arm length (mm)	165.0	-	-	-	-	(48-38-28T) ✓ (42-32-22T) *	-
	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-UN100	BB-UN100	BB-UN100	BB-UN26	BB-UN26	BB-UN100
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	BB-UN26-K	BB-UN26-K	-
	Press-fit	-	-	-	-	-	-
Axle length of BB-UN/ES (mm)	Threaded (normal)	LL123	LL123	LL123	LL123	LL123	LL123
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	-	-	LL123-K	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	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
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	-	-	-	-	Stainless steel	-
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	-	-	-	-	Stainless steel	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓ (Option)	✓	✓	✓
Average Weight (175 mm, w/o bottom bracket)		-	-	-	-	-	-
Note		SHIMANO logo	SHIMANO logo Chainline 3 mm outboard	SHIMANO logo	SHIMANO logo	SHIMANO logo * 48-38-28T Silver w/ Chain guard spec.	SHIMANO logo

Front Chainwheel

Series		SHIMANO	ALTUS	SHIMANO TOURNEY TX	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-M315-B2	FC-M311	FC-TX801	FC-TY501-2	FC-TY501	FC-TY301
Color	1	Black	Black	Black	Black	Black	Black
	2	-	-	Silver	-	Silver	-
Rear speeds		8/7	8/7	8/7/6	8/7	8/7/6	8/7/6
Compatible chain		HG 8/7-speed	HG for 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
Chainline (mm)		51.8	50	50	48.8	47.5/47.5 + t/50	47.5/47.5 + t/50
O.L.D. (mm)		148	142	142	142	142	142
P.C.D. (mm)		Riveted	Riveted	Riveted	Riveted	Riveted	Riveted
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Chaining combination		36-22T	48-38-28T 42-32-22T	48-38-28T 42-32-22T	46-30T	48-38-28T 42-34-24T	48-38-28T 42-34-24T
Q-factor (mm)		179.4	187.9	187.9	185.5	185.5	181.5
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	-	✓	✓	✓	✓ (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-UN100	BB-UN26	BB-UN100	BB-UN100	BB-UN100, BB-UN26	BB-UN100, BB-UN26
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	BB-UN26-K	BB-UN100-K	-	BB-UN100-K, BB-UN26K	BB-UN100-K, BB-UN26K
	Press-fit	-	-	-	-	-	-
Axle length of BB-UN/ES (mm)	Threaded (normal)	LL123	LL123	LL123	LL123	D-NL, *D-EL	D-NL, *D-EL
	Threaded (E-type)	-	-	-	-	-	-
	Threaded (chain case)	-	LL123-K	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	Painted
Crank axle	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Spider arm cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	Resin	Resin	Resin	Resin	- (black) Painted (silver)	-
Outer ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Middle ring	Material	-	Steel	Steel	-	Steel	Steel
	Finish	-	Painted	Painted	-	Painted	Painted
Inner ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer/middle ring fixing bolt	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Stainless chain guard fixing bolt		-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓ (Option)	-
Average Weight (175 mm, w/o bottom bracket)		-	-	-	-	-	-
Note		SHIMANO logo, Chainline 3 mm outboard	SHIMANO logo			* Bottom bracket spec. for chainline 50 mm	150 mm spec. available for 42-34-22T (Black) * Bottom bracket Spec for Chainline 50 mm

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CI-DECK

Front Chainwheel

Series		SHIMANO DXR
Model no.		FC-MX71
Color	1	Series color
	2	-
Rear speeds		1
Compatible chain		Single speed
Chainline (mm)		44
O.L.D. (mm)		142
P.C.D. (mm)		104/64
Gear arms		4 arm
Chainring combination		34T, 38T, 41T, 42T, 43T, 44T, 46T
Q-factor (mm)		173
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)	-
	Threaded (E-type)	-
	Threaded (chain case)	-
	Press-fit	-
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
	Finish	Anodized
Crank axle	Material	Steel
	Finish	Plated
Spider arm	Material	Aluminum
	Finish	Anodized
Spider arm cover	Material	-
	Finish	-
Outer ring	Material	Aluminum
	Finish	Anodized
Middle ring	Material	-
	Finish	-
Inner ring	Material	-
	Finish	-
Outer/middle ring fixing bolt	Material	Aluminum
	Finish	Anodized
Inner ring fixing bolt	Material	-
	Finish	-
Stainless chain guard fixing bolt		-
Crank fixing bolt included		✓
Average Weight (175 mm, w/o bottom bracket)		765 g (w/o chainring)
Note		BMX racing 68 mm bottom bracket shell width

Chain device

Series	SHIMANO	SHIMANO	SHIMANO	SAINT
Model no.	SM-CD800-D	SM-CD800-E	SM-CD800-I	SM-CD50
Color	Black	Black	Black	Series color
Spec	Single	Single	Single	w/ One guard
Chain compatibility	CN-M9100	CN-M9100	CN-M9100	9/10-speed
Chainline (mm)	52	52	52	50/75
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	28 g	25 g	33 g	
Note				

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Chainring

Series		XTR	SHIMANO DEORE XT	SLX	XTR	SHIMANO DEORE XT	SLX
Model no.		SM-CRM95	SM-CRM85	SM-CRM75	SM-CRM91	SM-CRM81	SM-CRM70
Color	1	Standard	Standard	Standard	Standard	Standard	Standard
	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	96
Chainring	Material	Aluminum	Steel (teeth) CFRP (body) Aluminum (arm)	Steel (teeth) CFRP (body) Aluminum (arm)	Aluminum	Steel (teeth) CFRP (body)	Steel (teeth) GFRP (body)
	Finish	Plated	Painted (teeth) Anodized (arm)	Painted (teeth) Painted (arm)	Anodized*	Plated (teeth) Painted (body)	Plated (teeth)
Note					* 32T, 34T, 36T anodized, 30T painted		

Chainring

Series		SHIMANO	SHIMANO
Model no.		SM-CR82	SM-CR80-A
Color	1	Black	Black
	2	-	-
	3	-	-
Gear speed		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)		104	104
Chainring	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Note		* SM-CD50 bash guard is compatible	

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Bottom Bracket (HOLLOWTECH II)

Series		XTR	XTR	SAINT/ZEE	SAINT/ZEE	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)	-	-	-	✓ (BB-MT800-PA)
	92	-	✓ (SM-BB94-41A)	-	-	-	✓ (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		73 g	58 g	95 g (68/73 mm) 96g (83 mm)	73 g	82 g	68.2 g
Note							

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BB-MT500	BB-MT500-P	SM-BB71-41	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)	✓ (SM-BB71-41A)	-
	92	-	✓ (BB-MT500-PA)	✓ (SM-BB71-41A)	-
	104.5	-	-	-	-
	107	-	-	-	-
Small ball bearing		-	-	-	-
Adapter	Material	Aluminum	Resin	Resin	Aluminum
	Finish	Anodized	-	-	Painted
Spacer	Material	Resin	Resin	Resin	Resin
	Finish	-	-	-	-
Average Weight		-	-	71 g	-
Note					

Bottom Bracket

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		BB-ES300	BB-ES300-E	BB-ES300-K	BB-ES300-AK	BB-ES51	BB-ES51-E	
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)	✓	✓	✓*	-	✓	-
		73 (BC1.37)	✓	✓	-	-	-	-
		70 (M36)	-	-	-	-	-	-
	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	Bonderlube	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	Phosphate coated	Nickel Chrome	Nickel Chrome	
Note				* w/ 0.7 mm spacer	* w/ 1.8 mm spacer version also available for FC-M521			

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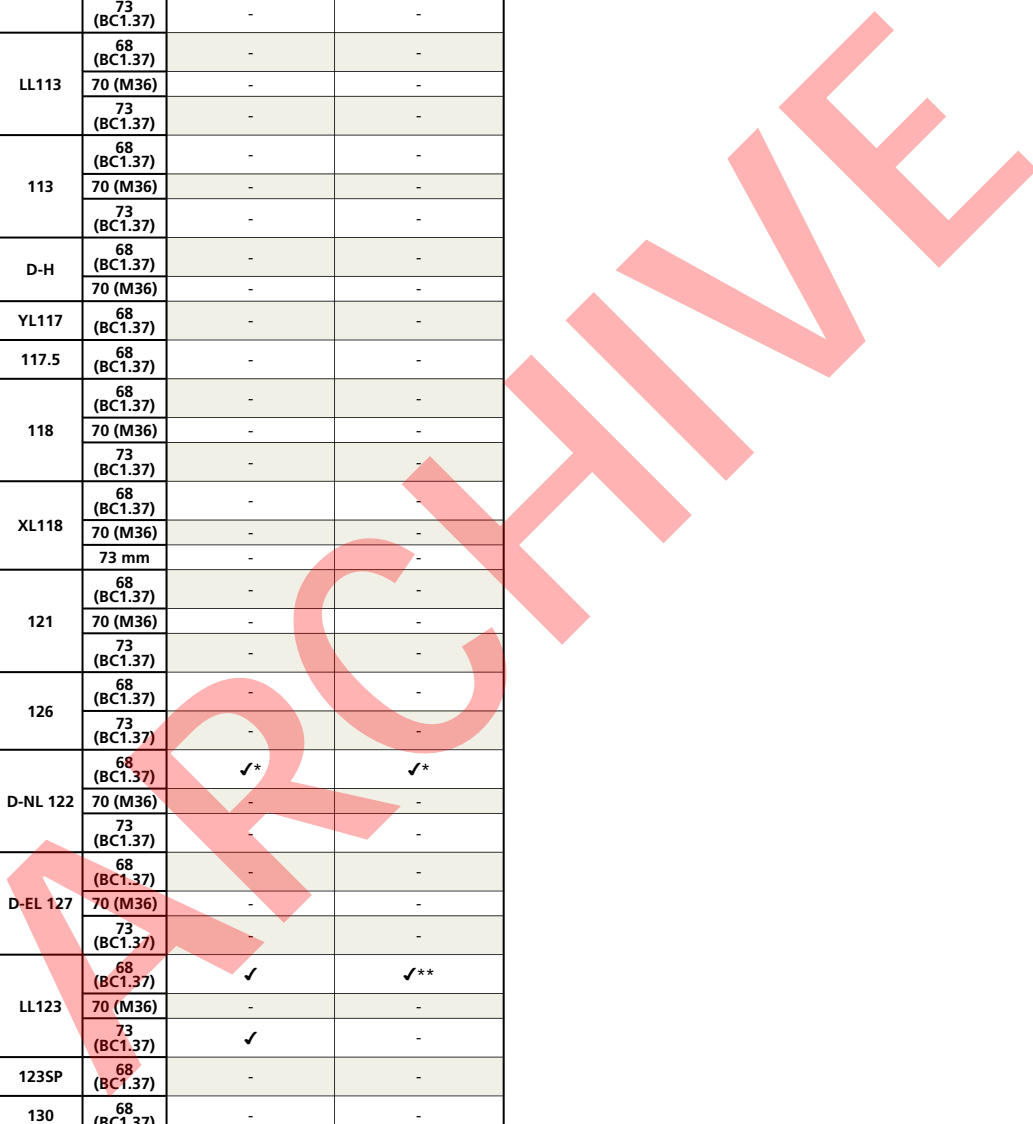
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Bottom Bracket

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.		BB-E551-K	BB-E551-AK	BB-UN55	BB-UN26	BB-UN26-E	BB-UN26-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)	-	-	-	✓* (chainline: 47.5) ✓ (chainline: 45)	✓* (chainline: 47.5)	✓* (chainline: 47.5)
	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)	-	-	-	-	-	-
		73 (BC1.37)	-	-	-	-	-	-
		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)	-	-	-	✓	✓	✓ (t=1.8)	
	70 (M36)	-	-	-	✓	-	-	
	73 (BC1.37)	-	-	-	-	✓	-	
123SP	68 (BC1.37)	-	-	-	✓	-	-	
130	68 (BC1.37)	-	-	-	✓	-	-	
Spindle	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted (Black)	Painted (Black)	Painted (Black)	Bondelube	Bondelube	Bondelube	
Left hand adapter	Material	Resin	Resin	Aluminum	Resin	Resin	Resin	
	Finish	-	-	-	-	-	-	
Right hand adapter/shell	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Nickel Chrome	Nickel Chrome	Nickel Chrome	Phosphate coated	Phosphate coated	Phosphate coated	
Note			For FC-M521 Only		* w/ Fixing bolts	* w/ Fixing bolts	* w/ Fixing bolts	

Bottom Bracket

Series		SHIMANO	SHIMANO
Model no.		BB-UN100	BB-UN100-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)	-
		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
	Finish	Lube	Lube
Left hand adapter	Material	Resin	Resin
	Finish	-	-
Right hand adapter/shell	Material	Resin, Steel	Resin, Steel
	Finish	-	-
Note		* w/ Crank arm fixing bolts spec. available	* w/ Crank arm fixing bolts spec. 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-M9001	CS-M8100-12
Type		HYPERGLIDE+	HG	HYPERGLIDE+
Speeds		12-speed	11-speed	12-speed
Compatible chain		CN-M9100	HG-X11	HG 12-speed
Combination name (Group name)		10-45T 10-51T	11-40T (bs)	10-45T 10-51T
Combination	Combination 1	10-12-14-16-18-21-24-28-32-36-40-45T	11-13-15-17-19*-21*-24*-27*-31*-35*-40**T (bs)	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
	Combination 3	-	-	-
	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	1	2	1
	Material	Aluminum	Aluminum/Carbon	Aluminum
	Finish	Anodized	Anodized	Painted
Titanium gear	QTY (pcs)	5	1	-
	Finish	-	Shot	-
Aluminum gear	QTY (pcs)	3	6	2
	Finish	-	-	Anodized
Steel gear	QTY (pcs)	4	4	10
	Finish	-	Shot-Ni	Plated
Lock ring	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Average Weight		357 g (10-45T) 367 g (10-51T)	330 g	461 g (10-45T) 470 g (10-51T)
Note		-	* Titanium gear ** Aluminum gear	-

Series		SHIMANO DEORE XT	SLX	SLX
Model no.		CS-M8000	CS-M7100-12	CS-M7000-11
Type		HG	HYPERGLIDE+	HG
Speeds		11-speed	12-speed	11-speed
Compatible chain		HG-X11	HG 12-speed	HG-X11
Combination name (Group name)		11-40T (bs) 11-42T (bt) 11-46T (bu)	10-45T 10-51T	11-40T (bs) 11-42T (bt) 11-46T (bu)
Combination	Combination 1	11-13-15-17-19-21-24-27-31-35-40**T (bs)	10-12-14-16-18-21-24-28-32-36-40-45T	11-13-15-17-19-21-24-27-31-35-40**T (bs)
	Combination 2	11-13-15-17-19-21-24-28-32-37-42**T (bt)	10-12-14-16-18-21-24-28-33-39-45-51T	11-13-15-17-19-21-24-28-32-37-42**T (bt)
	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	-	-	-
Spider arm	QTY (pcs)	2	1	1
	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Anodized
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	2	1	1 (11-40T) 1 (11-42T) 2 (11-46T)
	Finish	-	Anodized	-
Steel gear	QTY (pcs)	9	11	10 (11-40T) 10 (11-42T) 9 (11-46T)
	Finish	Shot-Ni	Plated	Shot-Ni
Lock ring	Material	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Plated
Average Weight		411 g (11-40T) 434 g (11-42T) 437 g (11-46T)	513 g (10-45T) 534 g (10-51T)	450 g (11-40T) 476 g (11-42T) 482 g (11-46T)
Note		** Aluminum gear	-	** Aluminum gear

Cassette Sprocket

Series		SHIMANO DEORE XT	SHIMANO	SHIMANO
Model no.		CS-M771-10	CS-HG81-10	CS-HG50-10
Type		HG	HG	HG
Speeds		10-speed	10-speed	10-speed
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)	11-32T (bl) 11-34T (bj) 11-36T (bk)	11-36T (bk)
Combination	Combination 1	11-12-14-16-18-20-22-25-28-32T (bl)	11-12-14-16-18-20-22-25-28-32T (bl)	11-13-15-17-19-21-24-28-32-36T (bk)
	Combination 2	11-13-15-17-19-21-23-26-30-34T (bj)	11-13-15-17-19-21-23-26-30-34T (bj)	-
	Combination 3	11-13-15-17-19-21-24-28-32-36T (bk)	11-13-15-17-19-21-24-28-32-36T (bk)	-
	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	2	1	1
	Material	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Ni plated
Titanium gear	QTY (pcs)	-	-	-
	Finish	Shot	Shot	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	10	10	10
	Finish	Shot-Cr	Shot-Cr/Shot-Ni	Ni plated
Lock ring	Material	Aluminum	Steel	Steel
	Finish	Anodized	Cr plated	Cr plated
Average Weight		294 g (11-32T) 323 g (11-34T) 343 g (11-36T)	317 g (11-32T) 351 g (11-34T) 369 g (11-36T)	-
Note			Use CN-6701 with ROAD double crankset	

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG500-10	CS-HG400-9	CS-HG201-9
Type		HG	HG	HG
Speeds		10-speed	9-speed	9-speed
Compatible chain		HG-X	HG 9-speed	HG 9-speed
Combination name (Group name)		11-42T	11-28T (bg) 11-32T (ar) 11-34T (au) 12-36T (bh) 11-36T (cb)	11-32T (bo) 11-34T (bn) 11-36T (bw)
Combination	Combination 1	11-13-15-18-21-24-28-32-37-42**T	11-12-13-14-16-18-21-24-28T (bg)	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)
	Combination 3	-	11-13-15-17-20-23-26-30-34T (au)	11-13-15-17-20-23-26-30-36T (bw)
	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	-	-	-
Spider arm	QTY (pcs)	1	-	-
	Material	Steel	-	-
	Finish	Plated	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	1	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	10	9	9
	Finish	Shot-Ni	Ni-Ni plated	Ni-Ni plated (Top gear: Phosphate coated)
Lock ring	Material	Steel	Steel	Steel
	Finish	Plated	Ni-Ni plated	Phosphate coated
Average Weight		-	-	-
Note		** Aluminum gear		

Cassette Sprocket

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG200-9	CS-HG51-8	CS-HG41-8
Type		HG	HG	HG
Speeds		9-speed	8-speed	8-speed
Compatible chain		HG 9-speed	IG/HG	IG/HG
Combination name (Group name)		11-32T (bo) 11-34T (bn) 11-36T (bw)	11-28T (bf) 11-30T (an) 11-23T (aw)	11-30T (an) 11-32T (aw) 11-34T (ao)
Combination	Combination 1	11-13-15-17-19-21-24-28-32T (bo)	11-13-15-17-19-21-24-28T (bf)	11-13-15-17-20-23-26-30T (an)
	Combination 2	11-13-15-17-20-23-26-30-34T (bn)	11-13-15-17-20-23-26-30T (an)	11-13-15-18-21-24-28-32T (aw)
	Combination 3	11-13-15-17-20-23-26-30-36T (bw)	11-13-15-18-21-24-28-32T (aw)	11-13-15-17-20-23-26-34T (ao)
	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	-	-	-
	Material	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	9	8	8
	Finish	Phosphate coated	Chrome plated	Ni plated
Lock ring	Material	Steel	Steel	Steel
	Finish	Phosphate coated	Chrome plated	Phosphate coated
Average Weight		-	-	-
Note				

Series		SHIMANO	SHIMANO	SHIMANO
Model no.		CS-HG31-8	CS-HG200-8	CS-HG41-7
Type		HG	HG	HG
Speeds		8-speed	8-speed	7-speed
Compatible chain		IG/HG	HG 8-speed	IG/HG
Combination name (Group name)		11-30T (an) 11-32T (aw) 11-34T (ao)	12-32T (br)	11-28T (ac)
Combination	Combination 1	11-13-15-17-20-23-26-30T (an)	12-14-16-18-21-24-28-32T (br)	11-13-15-18-21-24-28T (ac)
	Combination 2	11-13-15-18-21-24-28-32T (aw)	-	-
	Combination 3	11-13-15-17-20-23-26-34T (ao)	-	-
	Combination 4	-	-	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	-	-	-
	Material	-	-	-
	Finish	-	-	-
Titanium gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Aluminum gear	QTY (pcs)	-	-	-
	Finish	-	-	-
Steel gear	QTY (pcs)	8	8	8
	Finish	Phosphate coated	Phosphate coated	Ni plated
Lock ring	Material	Steel	Steel	Steel
	Finish	Phosphate coated	Phosphate coated	Phosphate coated
Average Weight		-	-	-
Note				

Cassette Sprocket

Series		SHIMANO	SHIMANO DXR
Model no.		CS-HG200-7	CS-MX66
Type		HG	Single sprocket for FH-MX70
Speeds		7-speed	Single
Compatible chain		IG/HG	1/2 inch x 3/32 inch
Combination name (Group name)		12-28T (bm) 12-32T (bp)	-
Combination	Combination 1	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	-	-
Spider arm	QTY (pcs)	-	-
	Material	-	-
	Finish	-	-
Titanium gear	QTY (pcs)	-	-
	Finish	-	-
Aluminum gear	QTY (pcs)	-	-
	Finish	-	-
Steel gear	QTY (pcs)	7	1
	Finish	Phosphate coated	Shot-Cr/Shot-Ni
Lock ring	Material	Steel	Steel
	Finish	Phosphate coated	Chrome plated
Average Weight		-	-
Note			For BMX racing

ARCHIVE

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
Model no.		MF-TZ500-7	MF-TZ500-6
Type		HG/UG	HG/UG
Speeds		7-speed	6-speed
Compatible chain		HG/UG	HG/UG
Combination name (Group name)		14-28T 14-34T	14-28T
Combination	Combination 1	14-16-18-20-22-24-28T	14-16-18-21-24-28T
	Combination 2	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	Brown & Black
Note			

ARCHIVE

Front Hub (Disc Brake)

Series		XTR	XTR	XTR	SHIMANO	SHIMANO	SAINT
Model no.		HB-M9110	HB-M9110-B	HB-M9110-B5	HB-MT900-B	HB-MT900-B5	HB-M820
Color	1 Hub Shell	Series color	Series color	Series color	Black	Black	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	110	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	15 mm E-THRU	15 mm E-THRU	20 mm 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	70.2	62.76	61.6
Offset (mm)		5.4	5.4	3.63	5.4	3.63	5.6
P.C.D. Left/Right (mm)		44/44	44/44	45	44/44	45	52
Flange diameter (mm)		52.8	52.8	51	52.8	51	59.6
Seal		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Internal grease sleeve		-	-	-	-	-	-
Bearing	Stainless ball	✓	✓	✓	✓	✓	✓
	Cup	Grinded	Grinded	Grinded	Grinded	Grinded	CBN
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
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	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Average Weight		132 g	137 g	146 g	158 g	163 g	202 g
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	-	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

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SMCD

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CS

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WH

CI-DECK

Front Hub (Disc Brake)

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

Front Hub (Disc Brake)

Series		SHIMANO DEORE XT	SLX	SLX	ZEE	SHIMANO DEORE	SHIMANO DEORE
Model no.		HB-M756	HB-M7110	HB-M7110-B	HB-M640	HB-M6000	HB-M6010
Color	1 Hub Shell	Black	Series color	Series color	Series color	Series Black	Series Black
	1 Quick release	Black	-	-	-	Series Black	-
	2 Hub Shell	Silver	-	-	-	Series Silver*	-
	2 Quick release	Silver	-	-	-	Series Silver*	-
Brake Type		6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		100	100	110	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		Quick release	15 mm E-THRU	15 mm E-THRU	20 mm 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)		59.4	60.2	70.2	61.55	60.2	60.2
Offset (mm)		5.5	5.7	5.7	5.6	5.6	5.3
P.C.D. Left/Right (mm)		61	44/44	44/44	52	44	44
Flange diameter (mm)		70.6	52.8	52.8	61.6	52.8	52.8
Seal		Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
Internal grease sleeve		-	✓	✓	✓	-	✓
Bearing	Stainless ball	-	✓	✓	-	-	-
	Cup	-	Polish	Polish	-	-	-
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Aluminum	Aluminum	Aluminum	Steel	Aluminum
	Finish	-	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	-	Steel
	Finish	-	-	-	Anodized	-	-
Average Weight		239 g	142 g	147 g	228 g	185 g	160 g
Note		Spoke hole 24H spec. available.			Axle is supplied with front fork.	* For Trekking	-

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Front Hub (Disc Brake)

Series		SHIMANO DEORE	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		HB-M6010-B	HB-M525A	HB-M475	HB-M4050	HB-M3050	HB-MT400
Color	1 Hub Shell	Series Black	Black	Black	Black	Black	Black
	1 Quick release	-	Black	Black	Black	Black	-
	2 Hub Shell	-	Silver	Silver	Silver	-	-
	2 Quick release	-	Silver	Silver	Silver	-	-
Brake Type		CENTER LOCK disc brake	6-bolt disc brake	6-bolt disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		110	100	100	100	100	100
Spoke hole	28H	-	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	-	✓	✓	✓	✓	✓
External serration disc brake rotor lock ring	with	✓	-	-	-	-	-
	without	-	-	-	-	-	-
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		15 mm E-THRU	Quick release	Quick release	Quick release	Quick release	15 mm E-THRU
Quick release skewer length (mm)	129	-	-	-	-	-	-
	133	-	✓	✓	✓	✓	-
Thru Axle (Length x Inner diameter mm)	100 x 15	-	-	-	-	-	✓
	110 x 15	✓	-	-	-	-	-
	110 x 20	-	-	-	-	-	-
Flange distance (mm)		70.2	59.2	59.2	60.2	60.2	60.2
Offset (mm)		5.4	5.7	5.5	5.6	5.5	5.3
P.C.D. Left/Right (mm)		44/44	61	61	44/44	44/44	44/44
Flange diameter (mm)		52.8	70.6	70.6	52.8	52.8	52.8
Seal		Labyrinth & Contact	Labyrinth & Contact	Contact	Labyrinth & Contact	Contact	Labyrinth & Contact
Internal grease sleeve		✓	-	-	-	-	✓
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Axle	Material	Aluminum	Steel	Steel	Steel	Steel	Aluminum
	Finish	Anodized	-	-	-	-	-
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		170 g	245 g	230 g	185 g	182 g	160 g
Note		-	-	-	-	-	-

Front Hub (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		HB-MT400-B	HB-MT200	HB-RM35	HB-TX505
Color	1 Hub Shell	Black	Black	Black	Black
	1 Quick release	-	Black	Black	Black
	2 Hub Shell	-	-	-	-
	2 Quick release	-	-	-	-
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
O.L.D. (mm)		110	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		15 mm E-THRU	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)		70.2	60.2	60.2	60.2
Offset (mm)		5.3	5.3	5.5	5.3
P.C.D. Left/Right (mm)		44/44	44/44	44/44	44/44
Flange diameter (mm)		52.8	52.8 (32H/36H) 53.8 (28H)	52.8	52.8 (32H/36H) 53.8 (28H)
Seal		Labyrinth & Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	-
Bearing	Stainless ball	-	-	-	-
	Cup	-	-	-	-
	Cone	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Axle	Material	Aluminum	Steel	Steel	Steel
	Finish	-	-	-	-
Quick release lever	Material	-	Steel	Steel	Steel
	Finish	-	Plated	Plated	Plated
Quick release housing	Material	-	Steel	Steel	Steel
	Finish	-	Plated	Plated	Plated
Quick release nut	Material	-	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-
Disc brake rotor lock ring	Material	Steel	-	-	-
	Finish	-	-	-	-
Average Weight		169 g	182 g (32H/36H) 184 g (28H)	182 g	182 g (32H/36H) 184 g (28H)
Note		-	-	-	-

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- SLMT
- SMSL
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- 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)	100 x 15 mm	-	-
	110 x 15 mm	-	-
	110 x 20 mm	-	-
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		-	-
Note			

FREEHUB (Disc Brake)

Series		XTR	XTR	XTR	SHIMANO	SHIMANO	XTR
Model no.		FH-M9111	FH-M9111-B	FH-M9111-BS	FH-MT901-B	FH-MT901-BS	FH-M9000
Color	1 Hub Shell	Series color	Series color	Series color	Black	Black	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-speed	12-speed	12-speed	12-speed	12-speed	8-10-speed, MTB 11-speed
O.L.D. (mm)		142	148	148	148	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		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release
Quick release skewer length	166 mm	-	-	-	-	-	-
	168 mm	-	-	-	-	-	✓
	170 mm	-	-	-	-	-	-
	173 mm	-	-	-	-	-	✓
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-	-
	142 x 12 mm	✓	-	-	-	-	-
	148 x 12 mm	-	✓	✓	✓	✓	-
	150 x 12 mm	-	-	-	-	-	-
157 x 12 mm	-	-	-	-	-	-	
Flange distance (mm)		55.89	63.06	56.0	62.26	56.0	57.4
Offset (mm)		7.05	7.02	6.8	6.63	6.8	6.6
P.C.D. Left/Right (mm)		50/61	47.25/61	45/61	59/61	45/61	44/45
Flange diameter Left/Right (mm)		59/70	56.25/70	51/68.4	68/70	51/68.4	52.8/53.8
Spline type		MICRO SPLINE	MICRO SPLINE	MICRO SPLINE	MICRO SPLINE	MICRO SPLINE	HG FREEHUB body
Ratchet system type		Face ratchet type	Face ratchet type	Face ratchet type	Face ratchet type	Face ratchet type	Pawl type
Quick engagement		✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (more than 36 times/ 360 deg.)
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	-	-	-	-	✓
Bearing	Stainless ball	✓	✓	✓	✓	✓	✓
	Cup	Grinded	Grinded	Grinded	Grinded	Grinded	Grinding
	Cone	CBN	CBN	CBN	CBN	CBN	CBN
FREEHUB body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Titanium
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-	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 (w/o Axle, quick release nor lock ring)		237 g	238 g	241 g	258 g	241 g	271 g
Note				* For straight spoke, Lacing pattern limited to 3-cross, non-offset rim For details, refer to Products Technical Information		* For straight spoke, Lacing pattern limited to 3-cross, non-offset rim For details, refer to Products Technical Information	

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FREEHUB (Disc Brake)

Series		SAINT	SAINT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT
Model no.		FH-M820	FH-M825	FH-M8110	FH-M8110-B	FH-M8110-B5	FH-M8130-B
Color	1 Hub Shell	Series color	Series color	Series color	Series color	Series color	Series color
	1 Quick release	-	-	-	-	-	-
	2 Hub Shell	-	-	-	-	-	-
	2 Quick release	-	-	-	-	-	-
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds		8-10-speed, MTB 11-speed	8-10-speed, MTB 11-speed	12-speed	12-speed	12-speed	12-speed
O.L.D. (mm)		135	150	142	148	148	157
Spoke hole	28H	-	-	✓	✓	✓	✓
	32H	✓	✓	✓	✓	-	✓
	36H	✓	✓	✓	✓	-	-
10 tooth cog compatible		-	-	✓	✓	✓	✓
External serration disc brake rotor lock ring	with	✓	✓	-	-	-	-
	without	-	-	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	with	✓	✓	-	-	-	-
	without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		Thru	Thru	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU
Quick release skewer length	166 mm	-	-	-	-	-	-
	168 mm	-	-	-	-	-	-
	170 mm	-	-	-	-	-	-
	173 mm	-	-	-	-	-	-
Thru Axle (Length x Inner diameter)	135 x 10 mm	✓	-	-	-	-	-
	135 x 12 mm	✓	-	-	-	-	-
	142 x 12 mm	-	-	✓	-	-	-
	148 x 12 mm	-	-	-	✓	✓	-
	150 x 12 mm	-	✓	-	-	-	-
	157 x 12 mm	-	-	-	-	-	✓
Flange distance (mm)		57.4	72.4	55.17	62.16	55.95	72.69
Offset (mm)		6.4	6.6	6.72	6.6	6.78	6.43
P.C.D. Left/Right (mm)		44/45	44/45	61/61	60/61	45/61	58/61
Flange diameter Left/Right (mm)		52.8/53.8	52.8/53.8	69.8/69.8	68.8/69.8	51/68.4	66.8/69.8
Spline type		HG FREEHUB body	HG FREEHUB body	MICRO SPLINE	MICRO SPLINE	MICRO SPLINE	MICRO SPLINE
Ratchet system type		Pawl type	Pawl type	Face ratchet type	Face ratchet type	Face ratchet type	Ratchet type
Quick engagement		✓ (more than 36 times/ 360 deg.)	✓ (more than 36 times/ 360 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		✓	✓	-	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	Grinding	Grinding	Polish	Polish	Polish	Polish
	Cone	CBN	CBN	CBN & Polish	CBN & Polish	CBN & Polish	CBN & Polish
FREEHUB body	Material	Steel	Steel	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	-	Anodized	Anodized	Anodized	Anodized
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	-	Anodized	Anodized	Anodized	Anodized
Quick release lever	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	Aluminum	Aluminum	-	-	-	-
	Finish	Anodized	Anodized	-	-	-	-
Average Weight (w/o Axle, quick release nor lock ring)		347 g (ø10) 333 g (ø12)	348 g	305 g	307 g	306 g	310 g
Note						For straight spoke ERD: 550-610 mm Rim offset: 0-3 mm Intersections: 3 cross only including spoke heads in hub shell Some spoke calculators may call this 2 cross Contact the nearest SHIMANO sales office for more information	

FREEHUB (Disc Brake)

Series		SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SHIMANO DEORE XT	SLX	SLX
Model no.		FH-M8000	FH-M8010	FH-M8010-B	FH-M756	FH-M7110	FH-M7110-B
Color	1 Hub Shell	Series color	Series color	Series color	Black	Series color	Series color
	1 Quick release	Series color	-	-	Black	-	-
	2 Hub Shell	-	-	-	Silver	-	-
	2 Quick release	-	-	-	Black	-	-
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	6-bolt 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	8-10-speed, MTB 11-speed	12-speed	12-speed
O.L.D. (mm)		135	142	148	135	142	148
Spoke hole	28H	-	-	-	-	✓	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	-	✓	-	✓	✓	✓
10 tooth cog compatible		-	-	-	-	✓	✓
External serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	✓	✓	✓	-	✓	✓
Internal serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	✓	✓	✓	-	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		Quick release	12 mm E-THRU	12 mm E-THRU	Quick release	12 mm E-THRU	12 mm E-THRU
Quick release skewer length	166 mm	-	-	-	-	-	-
	168 mm	✓	-	-	✓	-	-
	170 mm	-	-	-	-	-	-
	173 mm	✓	-	-	✓	-	-
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-	-
	142 x 12 mm	-	✓	-	-	✓	-
	148 x 12 mm	-	-	✓	-	-	✓
	150 x 12 mm	-	-	-	-	-	-
	157 x 12 mm	-	-	-	-	-	-
Flange distance (mm)		57.4	57.4	63.4	57.1	55.17	62.16
Offset (mm)		6.9	6.4	6.4	6.8	6.72	6.6
P.C.D. Left/Right (mm)		44/45	44/45	44/45	61	61/61	60/61
Flange diameter Left/Right (mm)		52.8/53.8	52.8/53.8	52.8/53.8	70.6	69.8/69.8	68.8/69.8
Spline type		HG FREEHUB body	HG FREEHUB body	HG FREEHUB body	HG FREEHUB body	MICRO SPLINE	MICRO SPLINE
Ratchet system type		Pawl type	Pawl type	Pawl type	Pawl type	Face ratchet type	Face ratchet type
Quick engagement		✓ (more than 36 times/ 360 deg.)	✓ (more than 36 times/ 360 deg.)	✓ (more than 36 times/ 360 deg.)	-	✓ (max 7.0 deg.)	✓ (max 7.0 deg.)
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
	Cone	CBN	CBN	CBN	CBN	CBN & Polish	CBN & Polish
FREEHUB body	Material	Steel	Steel	Steel	Steel	Aluminum	Aluminum
	Finish	-	-	-	-	Anodized	Anodized
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Anodized	Anodized	-	-	-
Quick release lever	Material	Aluminum	-	-	Aluminum	-	-
	Finish	Anodized	-	-	Anodized	-	-
Quick release housing	Material	Aluminum	-	-	Aluminum	-	-
	Finish	Anodized	-	-	Anodized	-	-
Quick release nut	Material	Resin & Steel	-	-	Resin & Steel	-	-
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average Weight (w/o Axle, quick release nor lock ring)		331g	359 g	367 g	426 g	350 g	354 g
Note					Spoke hole 24H spec available		

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CI-DECK

FREEHUB (Disc Brake)

Series		SLX	ZEE	ZEE	SHIMANO DEORE	SHIMANO DEORE	SHIMANO DEORE
Model no.		FH-M7130-B	FH-M640	FH-M645	FH-M6000	FH-M6010	FH-M6010-B
Color	1 Hub Shell	Series color	Series color	Series color	Series Black	Series Black	Series Black
	1 Quick release	-	-	-	Series Black	-	-
	2 Hub Shell	-	-	-	Series Silver*	-	-
	2 Quick release	-	-	-	Series Black	-	-
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-speed	8-10-speed, MTB 11-speed	8-10-speed, MTB 11-speed	8-10-speed, MTB 11-speed	8-10-speed, MTB 11-speed	8-10-speed, MTB 11-speed
O.L.D. (mm)		157	135	150	135	142	148
Spoke hole	28H	✓	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	-	✓	✓	✓	-	✓
10 tooth cog compatible		✓	-	-	-	-	-
External serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	Thru	Thru	Quick release	12 mm E-THRU	12 mm E-THRU
Quick release skewer length	166 mm	-	-	-	-	-	-
	168 mm	-	-	-	✓	-	-
	170 mm	-	-	-	-	-	-
	173 mm	-	-	-	✓	-	-
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	✓	-	-	-	-
	135 x 12 mm	-	✓	-	-	-	-
	142 x 12 mm	-	-	-	-	✓	-
	148 x 12 mm	-	-	-	-	-	✓
	150 x 12 mm	-	-	✓	-	-	-
	157 x 12 mm	✓	-	-	-	-	-
Flange distance (mm)		72.69	57.4	72.4	57.4	57.4	63.4
Offset (mm)		6.43	6.4	6.4	6.6	6.4	6.4
P.C.D. Left/Right (mm)		58/61	44/45	44/45	45	44/45	44/45
Flange diameter Left/Right (mm)		66.8/69.8	52.8/ 53.8	52.8/ 53.8	53.8	52.8/ 53.8	52.8/53.8
Spline type		MICRO SPLINE	HG FREEHUB body	HG FREEHUB body	HG FREEHUB body	HG FREEHUB body	HG FREEHUB body
Ratchet system type		Face ratchet type	Pawl type	Pawl type	Pawl type	Pawl type	Pawl type
Quick engagement		✓ (max 7.0 deg.)	✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 deg.)	-	✓ (more than 36 times/360 deg.)	✓ (more than 36 times/360 deg.)
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Internal grease sleeve		-	✓	✓	✓	✓	✓
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	Polish	-	-	-	-	-
	Cone	CBN & Polish	CBN	CBN	CBN	CBN	CBN
FREEHUB body	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Anodized	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	-	-	-	Aluminum	-	-
	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 (w/o Axle, quick release nor lock ring)		359 g	375 g (ø10) 350 g (ø12)	363 g	372 g	357 g	360 g
Note					* for Trekking		

FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-M525A	FH-M475	FH-M4050	FH-M3050	FH-MT500	FH-MT500-B
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		6-bolt 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	8-10 speed, MTB 11-speed	8-10-speed, MTB 11-speed	12-speed	12-speed
O.L.D. (mm)		135	135	135	135	135	141
Spoke hole	28H	-	-	-	-	✓	✓
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
10 tooth cog compatible		-	-	-	-	✓	✓
External serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	-	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	-	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		Quick release	Quick release	Quick release	Quick release	Quick release	Quick release
Quick release skewer length	166 mm	-	✓	-	✓	✓	166 + 6 mm
	168 mm	✓	-	✓	-	-	-
	170 mm	-	✓	-	✓	✓	170 + 6 mm
	173 mm	✓	✓	✓	-	-	-
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-	-
	142 x 12 mm	-	-	-	-	-	-
	148 x 12 mm	-	-	-	-	-	-
	150 x 12 mm	-	-	-	-	-	-
Flange distance (mm)		57.1	57.1	57.4	57.4	55.17	62.16
Offset (mm)		6.8	6.8	6.6	6.6	6.72	6.6
P.C.D. Left/Right (mm)		61	61	45/45	45/45	61/61	60/61
Flange diameter Left/Right (mm)		70.6	70.6	53.8	53.8	69.8/69.8	68.8/69.8
Spline type		HG FREEHUB body	HG FREEHUB body	HG FREEHUB body	HG FREEHUB body	MICRO SPLINE	MICRO SPLINE
Ratchet system type		Pawl type	Pawl type	Pawl type	Pawl type	Pawl type	Pawl type
Quick engagement		-	-	-	-	✓	✓
Seal	Hub	Labyrinth & Contact	Labyrinth & Contact	Labyrinth & Contact	Contact	Labyrinth & Contact	Labyrinth & Contact
	FREEHUB body	Contact	-	Contact	-	Contact	Contact
Internal grease sleeve		-	-	✓	-	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	-	CBN	-	CBN	CBN
FREEHUB body	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-	-
Quick release lever	Material	Aluminum	Steel	Aluminum	Steel	Aluminum	Aluminum
	Finish	Anodized	Plated	Painted	Plated	Painted	Painted
Quick release housing	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Anodized	Plated	Plated	Plated	Painted	Painted
Quick release nut	Material	Resin & Steel	Steel + Resin	Steel + Resin	Steel + Resin	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average Weight (w/o Axle, quick release nor lock ring)		435 g	445 g	385 g	386 g	515 g	518 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

FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-MT510	FH-MT510-B	FH-MT400	FH-MT400-B	FH-MT200-B	FH-RM35
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	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds		12-speed	12-speed	8-10-speed, MTB 11-speed	8-10-speed, MTB 11-speed	8-10-speed	8-10-speed
O.L.D. (mm)		142	148	142	148	141	135
Spoke hole	28H	✓	✓	-	-	✓	✓*
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
10 tooth cog compatible		✓	✓	-	-	-	-
External serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	✓	✓	✓	✓	✓	✓
Internal serration disc brake rotor lock ring	with	-	-	-	-	-	-
	without	✓	✓	✓	✓	✓	✓
CENTER LOCK mount cover option		-	-	-	-	-	-
Axle fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release	Quick release
Quick release skewer length	166 mm	-	-	-	-	166 + 6 mm	✓
	168 mm	-	-	-	-	-	-
	170 mm	-	-	-	-	170 + 6 mm	✓
	173 mm	-	-	-	-	-	-
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-	-
	142 x 12 mm	✓	-	-	-	-	-
	148 x 12 mm	-	✓	-	✓	-	-
	150 x 12 mm	-	-	-	-	-	-
157 x 12 mm	-	-	-	-	-	-	
Flange distance (mm)		55.17	62.16	57.4	63.4	63.4	57.4
Offset (mm)		6.72	6.6	6.65	6.65	6.65	6.6
P.C.D. Left/Right (mm)		61/61	60/61	44/45	44/45	45	45/45
Flange diameter Left/Right (mm)		69.8/69.8	68.8/69.8	52.8/53.8	52.8/53.8	53.8	53.8
Spline type		MICRO SPLINE	MICRO SPLINE	HG FREEHUB body	HG FREEHUB body	HG FREEHUB body	HG FREEHUB body
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	Contact	Contact
	FREEHUB body	Contact	Contact	Contact	Contact	-	-
Internal grease sleeve		-	-	✓	✓	-	-
Bearing	Stainless ball	-	-	-	-	-	-
	Cup	-	-	-	-	-	-
	Cone	CBN	CBN	CBN	CBN	-	-
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	-	-	-	-	Steel	Steel
	Finish	-	-	-	-	Plated	Plated
Quick release housing	Material	-	-	-	-	Steel	Steel
	Finish	-	-	-	-	Painted	Plated
Quick release nut	Material	-	-	-	-	Steel + Resin	Steel + Resin
	Finish	-	-	-	-	-	-
Disc brake rotor lock ring	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average Weight (w/o Axle, quick release nor lock ring)		437 g	440 g	357 g	369 g	402.5 g	386 g
Note				-	-	-	* 166 mm Quick release spec.

FREEHUB (Disc Brake)

Series		SHIMANO	SHIMANO
Model no.		FH-TX505-8	FH-TY505-7
Color	1 Hub Shell	Black	Black
	1 Quick release	Black	Black
	2 Hub Shell	-	-
	2 Quick release	-	-
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds		8-10-speed	7-speed
O.L.D. (mm)		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 skewer length	166 mm	✓	✓
	168 mm	-	-
	170 mm	✓	✓
	173 mm	-	-
Thru Axle (Length x Inner diameter)	135 x 10 mm	-	-
	135 x 12 mm	-	-
	142 x 12 mm	-	-
	148 x 12 mm	-	-
	150 x 12 mm	-	-
	157 x 12 mm	-	-
Flange distance (mm)		57.4	59.5
Offset (mm)		6.6	5.6
P.C.D. Left/Right (mm)		45/45	45/45
Flange diameter Left/Right (mm)		53.8	53.8
Spline type		HG FREEHUB body	HG FREEHUB body
Ratchet system type		Pawl type	Pawl type
Quick engagement		-	-
Seal	Hub	Contact	-
	FREEHUB body	-	-
Internal grease sleeve		-	-
Bearing	Stainless ball	-	-
	Cup	-	-
	Cone	-	-
FREEHUB body	Material	Steel	Steel
	Finish	-	-
Hub shell	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Axle	Material	Steel	Steel
	Finish	-	-
Quick release lever	Material	Steel	Steel
	Finish	Plated	Plated
Quick release housing	Material	Steel	Steel
	Finish	Plated	Plated
Quick release nut	Material	Steel + Resin	Steel + Resin
	Finish	-	-
Disc brake rotor lock ring	Material	-	-
	Finish	-	-
Average Weight (w/o Axle, quick release nor lock ring)		403.5 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

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		8/9-speed	8/9-speed	7-speed	7-speed
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)	135 x 10 mm	-	-	-	-
	135 x 12 mm	-	-	-	-
	142 x 12 mm	-	-	-	-
	148 x 12 mm	-	-	-	-
	150 x 12 mm	-	-	-	-
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 (w/o axle, quick release nor lockring)		-	-	-	-
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	Black	Series color
	1 Quick release	-	-	-	-	-
	2 Hub Shell	-	-	-	-	-
	2 Quick release	-	-	-	-	-
Front/Rear	Front	Front	Rear	Rear	Front	Front
Brake Type	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc	CENTER LOCK Disc
Speeds	-	-	MTB 12-speed	MTB 12-speed	-	-
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 - 2.50
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)	100 x 15 mm	-	-	-	-	-
	110 x 15 mm	✓	✓	-	-	✓
	142 x 12 mm	-	-	-	-	-
	148 x 12 mm	-	-	✓	✓	-
Spline type	-	-	MICRO SPLINE	MICRO SPLINE	-	-
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 (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)	846 g	808 g	994 g	956 g	941 g	875 g
Note						

SL

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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	MTB 12-speed	MTB 12-speed	-	-	MTB 12-speed	MTB 12-speed	
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 - 2.50	27.5 x 2.25 - 2.50	29 x 2.25 - 2.50	27.5 x 2.25 - 2.50	29 x 2.25 - 2.50	27.5 x 2.25 - 2.50
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)	100 x 15 mm	-	-	-	-	-	
	110 x 15 mm	-	-	✓	✓	-	
	142 x 12 mm	-	-	-	-	-	
	148 x 12 mm	✓	✓	-	-	✓	✓
Spline type	MICRO SPLINE	MICRO SPLINE	-	-	MICRO SPLINE	MICRO SPLINE	
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 & 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	-	-	-	-	-	
	Color	-	-	-	-	-	
Quick release housing	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Quick release nut	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Disc brake rotor lock ring	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	
Average Weight (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)	1,061 g	1,016 g	990 g	940 g	1,255 g	1,206 g	
Note							

Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	
Model no.	WH-MT600-TL-F15-29	WH-MT600-TL-F15-275	WH-MT600-TL-R12-29	WH-MT600-TL-R12-275	WH-MT600-TL-F15-B-29	WH-MT600-TL-F15-B-275	
Model name	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL	WH-MT600-TL	
Spec.	F15-29	F15-275	R12-29	R12-275	F15-B-29	F15-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	Front	Front	
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***	-	-	
O.L.D. (mm)	100	100	142	142	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 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	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	27.5 x 2.00 - 2.40
Rim	Height (mm)	21	21	21	21	21	
	Width (mm)	28.8	28.8	28.8	28.8	28.8	
	Rim joint	Welding	Welding	Welding	Welding	Welding	Welding
	Brazed reinforcement	-	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-	-
	Requires rim tape	✓ (24 - 622)	✓ (24 - 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	
	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)	100 x 15 mm	✓	✓	-	-	-	
	110 x 15 mm	-	-	-	-	✓	
	142 x 12 mm	-	-	✓	✓	-	
	148 x 12 mm	-	-	-	-	-	
Spline type	-	-	HG FREEHUB body	HG FREEHUB body	-	-	
Ratchet system type	-	-	Pawl type	Pawl type	-	-	
Quick engagement	-	-	-	-	-	-	
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	-	
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	Aluminum	
	Finish	Black	Black	Black	Black	Black	
FREEHUB body	Material	-	-	Steel	Steel	-	
	Finish	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	
	Finish	Anodized	Anodized	-	-	Anodized	
Quick release lever	Material	-	-	-	-	-	
	Color	-	-	-	-	-	
Quick release housing	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Quick release nut	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Disc brake rotor lock ring	Material	Steel	Steel	-	Steel	Steel	
	Finish	Painted	Painted	-	Painted	Painted	
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	
	DIN	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	
Average Weight (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)	964 g	923 g	1,156 g	1,115 g	970 g	930 g	
Note	-	-	-	-	-	-	

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CI-DECK

Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-MT600-TL-R12-B-29	WH-MT600-TL-R12-B-275	WH-MT501-CL-R12-B-29	WH-MT501-CL-R12-B-275	WH-MT500-CL-F-275	WH-MT500-CL-R-275
Model name	WH-MT600-TL	WH-MT600-TL	WH-MT501-CL	WH-MT501-CL	WH-MT500-CL	WH-MT500-CL
Spec.	R12-B-29	R12-B-275	R12-B-29	R12-B-275	F-275	R-275
Color	1 Hub Shell	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	Black	Black
	2 Hub Shell	-	-	-	-	-
	2 Quick release	-	-	-	-	-
Front/Rear	Rear	Rear	Rear	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***	MTB 12-speed	MTB 12-speed	-	8-10-speed, MTB 11-speed***
O.L.D. (mm)	148	148	148	148	100	135
Wheel Size	622 x 24C (29 inch)	584 x 24C (650B = 27.5 inch)	622 x 24C (29 inch)	584x24C (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	Tubeless	Tubeless	Clincher	Clincher	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	27.5 x 2.00 - 2.40
Rim	Height (mm)	21	21	21	21	21
	Width (mm)	28.8	28.8	29.6	29.6	29.6
	Rim joint	Welding	Welding	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
	Requires rim tape	✓ (24 - 622)	✓ (24 - 584)	✓ (24 - 622)	✓ (24 - 584)	✓ (24 - 584)
Spokes	Number	24	24	24	24	24
	Straight pull	✓	✓	-	-	-
	J-bend	-	-	✓	✓	✓
	Butted	2	2	2.3	2.3	2.3
	Bladed	-	-	-	-	-
Axle fixing method	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release	Quick release
Quick release skewer length	133 mm	-	-	-	✓	-
	168 mm	-	-	-	-	✓
	173 mm	-	-	-	-	✓
Thru Axle (Length x Inner diameter)	100 x 15 mm	-	-	-	-	-
	110 x 15 mm	-	-	-	-	-
	142 x 12 mm	-	-	-	-	-
	148 x 12 mm	✓	✓	✓	✓	-
Spline type	HG FREEHUB body	HG FREEHUB body	MICRO SPLINE	MICRO SPLINE	-	HG FREEHUB body
Ratchet system type	Pawl 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	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	Brass	Brass	Brass
	Finish	Black	Black	Black	Black	Black
FREEHUB body	Material	Steel	Steel	Steel	Steel	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Painted
Axle	Material	Steel	Steel	Steel	Steel	Steel
	Finish	-	-	-	-	-
Quick release lever	Material	-	-	-	-	Aluminum
	Finish	-	-	-	-	Painted
	Color	-	-	-	-	Black
Quick release housing	Material	-	-	-	-	Steel
	Finish	-	-	-	-	Painted
Quick release nut	Material	-	-	-	-	Resin & Steel
	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 RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW
Average Weight (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)	1,170 g	1,130 g	1,260 g	1,208 g	962 g	1,147 g
Note	-	-	-	-	-	*** Spoke protector is available only for 9 & 10-speed

Wheel (Disc Brake)

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	WH-MT500-CL-F15-275	WH-MT500-CL-R12-275	WH-MT500-CL-F15-B-275	WH-MT500-CL-R12-B-275	WH-MT500-CL-F-29	WH-MT500-CL-R-29
Model name	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL
Spec.	F15-275	R12-275	F15-B-275	R12-B-275	F-29	R-29
Color	1 Hub Shell	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	Black	Black
	2 Hub Shell	-	-	-	-	-
	2 Quick release	-	-	-	-	-
Front/Rear	Front	Rear	Front	Rear	Front	Rear
Brake Type	CENTER LOCK Disc	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	142	110	148	100	135
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)	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	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	27.5 x 2.00 - 2.40	29 x 2.00 - 2.35
Rim	Height (mm)	21	21	21	21	21
	Width (mm)	29.6	29.6	29.6	29.6	29.6
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
	Requires rim tape	✓ (24 - 584)	✓ (24 - 584)	✓ (24 - 584)	✓ (24 - 584)	✓ (24 - 622)
Spokes	Number	24	24	24	24	24
	Straight pull	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓
	Butted	2.3	2.3	2.3	2.3	2.3
	Bladed	-	-	-	-	-
Axle fixing method	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU	Quick release	Quick release
Quick release skewer length	133 mm	-	-	-	✓	-
	168 mm	-	-	-	-	✓
	173 mm	-	-	-	-	✓
Thru Axle (Length x Inner diameter)	100 x 15 mm	✓	-	-	-	-
	110 x 15 mm	-	-	✓	-	-
	142 x 12 mm	-	✓	-	-	-
	148 x 12 mm	-	-	-	✓	-
Spline type	-	HG FREEHUB body	-	HG FREEHUB body	-	HG FREEHUB body
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	Aluminum	Steel	Aluminum	Steel	Steel
	Finish	Anodized	-	Anodized	-	-
Quick release lever	Material	-	-	-	Aluminum	Aluminum
	Finish	-	-	-	Painted	Painted
	Color	-	-	-	Black	Black
Quick release housing	Material	-	-	-	Steel	Steel
	Finish	-	-	-	Painted	Painted
Quick release nut	Material	-	-	-	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 (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)	936 g	1,133 g	946 g	1,145 g	1,013 g	1,200 g
Note	-	*** Spoke protector is available only for 9 & 10-speed	-	*** Spoke protector is available only for 9 & 10-speed	-	-

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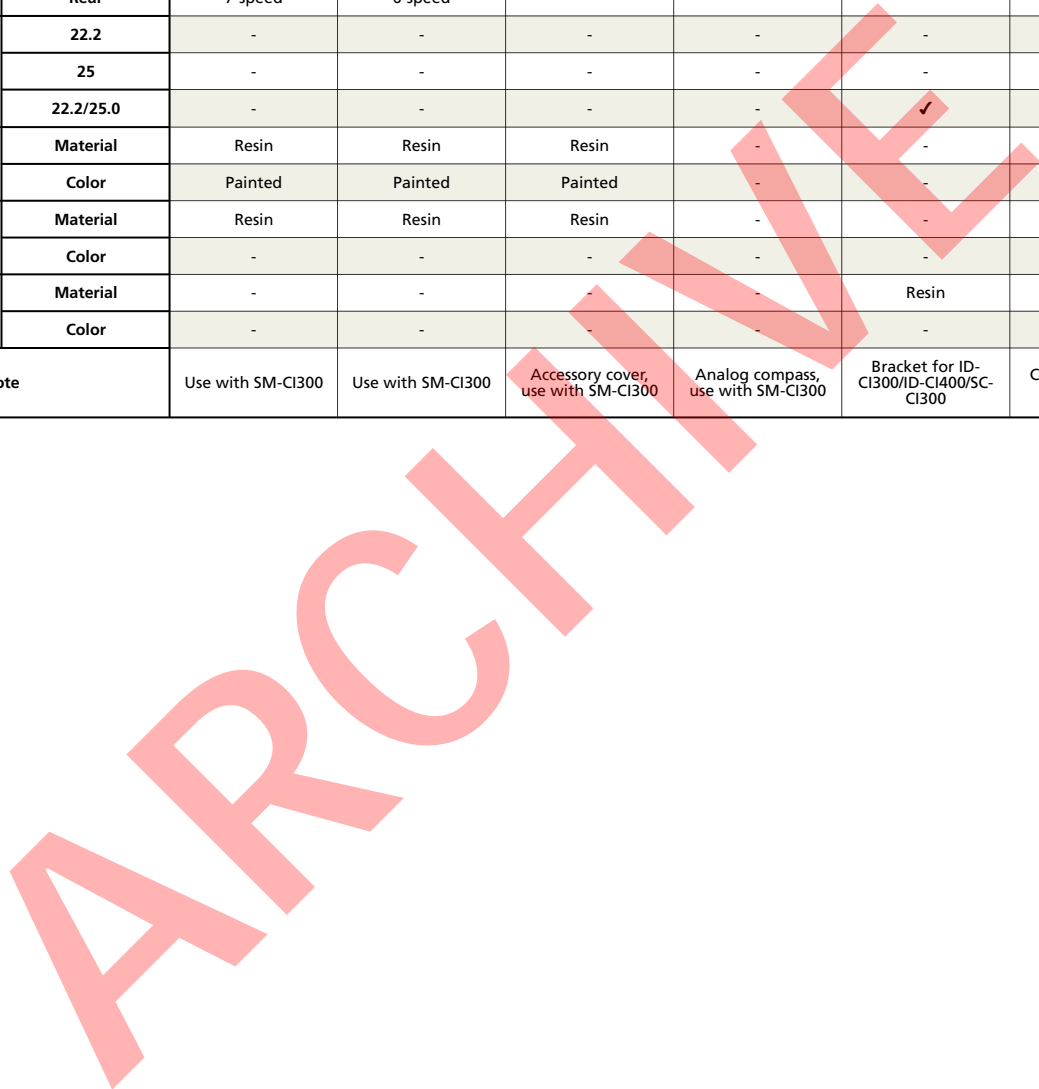
CI-DECK

Wheel (Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		WH-MT500-CL-F15-29	WH-MT500-CL-R12-29	WH-MT500-CL-F15-B-29	WH-MT500-CL-R12-B-29	WH-MT15-A-F15-275
Model name		WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT500-CL	WH-MT15-A
Spec.		F15-29	R12-29	F15-B-29	R12-B-29	F15-275
Color	1 Hub Shell	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	Black
	2 Hub Shell	-	-	-	-	White
	2 Quick release	-	-	-	-	Black
Front/Rear		Front	Rear	Front	Rear	Front
Brake Type		CENTER LOCK Disc	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***	-
O.L.D. (mm)		100	142	110	148	100
Wheel Size		622 x 24C (29 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)	622 x 24C (29 inch)	584 x 19C (650B = 27.5 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	27.5 x 1.90 - 2.25
Rim	Height (mm)	21	21	21	21	21
	Width (mm)	29.6	29.6	29.6	29.6	24.6
	Rim joint	Sleeve	Sleeve	Sleeve	Sleeve	Sleeve
	Brazed reinforcement	-	-	-	-	-
	OFFSET RIM	-	-	-	-	-
	Requires rim tape	✓ (24 - 622)	✓ (24 - 622)	✓ (24 - 622)	✓ (24 - 622)	✓ (20-584)
Spokes	Number	24	24	24	24	28
	Straight pull	-	-	-	-	-
	J-bend	✓	✓	✓	✓	✓
	Butted	2.3	2.3	2.3	2.3	2.0
	Bladed	-	-	-	-	✓
Axle fixing method		15 mm E-THRU	12 mm E-THRU	15 mm E-THRU	12 mm E-THRU	15 mm E-THRU
Quick release skewer length	133 mm	-	-	-	-	-
	168 mm	-	-	-	-	-
	173 mm	-	-	-	-	-
Thru Axle (Length x Inner diameter)	100 x 15 mm	✓	-	-	-	✓
	110 x 15 mm	-	-	✓	-	-
	142 x 12 mm	-	✓	-	-	-
	148 x 12 mm	-	-	-	✓	-
Spline type		-	HG FREEHUB body	-	HG FREEHUB body	-
Ratchet system 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 (Black rim)
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass
	Finish	Black	Black	Black	Black	Silver
FREEHUB body	Material	-	Steel	-	Steel	-
	Finish	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Axle	Material	Aluminum	Steel	Aluminum	Steel	Aluminum
	Finish	Anodized	-	Anodized	-	Anodized
Quick release lever	Material	-	-	-	-	-
	Finish	-	-	-	-	-
	Color	-	-	-	-	-
Quick release housing	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Quick release nut	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Disc brake rotor lock ring	Material	Steel	-	Steel	-	Steel
	Finish	Painted	-	Painted	-	Painted
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW
	DIN	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW	CATEYE RR317-WUA SW
Average Weight (w/o Quick release, rim tape, tubeless tape, valve stem, lock ring)		988 g	1,186 g	998 g	1,199 g	995 g (Black) 1,000 g (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



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BR

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BR

FC

SMCD

SMCR

BB

BB

CS

MF

HB

HB

FH

FH

WH

CI-DECK

ARCHIVE

	<i>Page</i>	
Shifting Lever	108	SL
Brake Lever (Hydraulic disc brake)	109	BL
Brake Lever	110	BL
Rear Derailleur	111	RD
Front Derailleur	112	FD
Brake (V-BRAKE)	114	BR
Front Chainwheel	115	FC
Front Hub (Rim/Disc Brake)	117	HB
FREEHUB (Rim/Disc Brake)	118	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	-	-	Series silver	Series silver
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 (pc)		126 g	120 g	-	-
Note					

Brake Lever (Hydraulic disc brake)

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Series		SHIMANO DEORE XT	SHIMANO DEORE
Model no.		BL-T8000	BL-T6000
Brake type		Hydraulic disc brake	Hydraulic disc brake
Lever size (Finger)		3	3
Color	1	Series color	Series black
	2	-	Series silver
	3	-	Black (SHIMANO logo)*
Brake hose (Kit)		SM-BH90-SBM	SM-BH59-JK-SS
Hose joint		Banjo	Straight
Brake hose color (kit)	1	Black	Black
	2	-	-
J-Kit spec (for OEM)		✓	✓
Recommended brake caliper		BR-M8000	BR-M6000
Oil		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
	Finish	Painted	-
Brake lever	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Average Weight (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 g**	-
Note		** single item weight	J-Kit spec available * T6000 kit only

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	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 (pair)		-	-	-	-
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	-	Series silver	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 (pc)		253 g	-	-	-
Note		* Possible to attach to direct mount in case bracket is removed.	* Possible to attach to direct mount in case bracket is removed.		

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Front Derailleur

Series		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	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	28.6 mm	✓* (w/ S size adapter)	✓* (w/ S size adapter)	✓* (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	
		31.8 mm	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	
		34.9 mm	✓	✓	✓	✓	✓	
	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	-	-	-	-	-	-	
Chainline (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 (pc) (Band type: L size, direct type w/ bolt)		169 g	155 g	155 g	-	-	-	
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 ALIVIO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO ACERA	SHIMANO ACERA	SHIMANO ACERA	
Model no.		FD-T4000-TS3	FD-T4000-TS6	FD-T4000-DS3	FD-T3000-2-TS3	FD-T3000-TS3	FD-T3000-TS6	
Color	1	Series color	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Speeds	Front	3	3	3	2	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	28.6 mm	✓ (w/ S size adapter)	✓ (w/ S size adapter)	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)	✓ (w/ S size adapter)
		31.8 mm	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)	✓ (w/ M size adapter)
		34.9 mm	✓	✓	✓	✓	✓	✓
	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	-	-	-	-	-	-	
Chainline (mm)		50	50	50	48.8	50	50	
Chain stay angle		63-66	66-69	63-66	63-68	63-66	66-69	
Top gear teeth		44T/48T	44T/48T	44T/48T	46T	44T/48T	44T/48T	
Total capacity		22T	22T	22T	16T	22T	22T	
Applicable Top-Mid tooth difference		12T	12T	12T	-	12T	12T	
Multi access cable fixing bolt		-	-	-	-	-	-	
Angled stroke adjust bolt		-	-	-	-	-	-	
Angled clamp band design		✓	✓	✓	✓	✓	✓	
Link bushings		-	-	2	-	-	-	
Front clamp band	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel	
	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	Steel	Steel	Aluminum	Steel	Steel	Steel	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Inner link	Material	Steel	Steel	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	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	
	Finish	-	-	-	-	Zinc plated	Zinc plated	
Average Weight (pc) (Band type: L size, direct type w/ bolt)		-	-	-	-	-	-	
Note								

SL

BL

BL

RD

FD

BR

FC

HB

FH

Brake (V-BRAKE)

Series		SHIMANO DEORE	SHIMANO
Model no.		BR-T610	BR-T4000
Color	1	Black	Black
	2	Silver	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		-	-
Note			



Front Chainwheel

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 silver	Black	Black	Black	Black
	2	-	Series silver	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
Chainline (mm)		50	50	50	50	50	50
P.C.D. (mm)		104/64	104/64	104/64	104/64	104/64	104/64
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
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	BB-ES300-AK	SM-BB52	BB-ES300-AK
	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 (175mm, w/o bottom bracket)		868 g (48-36-26T)	-	-	-	-	-
Note							

- SL
- BL
- BL
- RD
- FD
- BR
- FC
- HB
- FH

Front Chainwheel

Series		SHIMANO
Model no.		FC-T3010
Color	1	Black
	2	Silver
Rear speeds		9
Compatible chain		HG for 9-speed
Chainline (mm)		50
P.C.D. (mm)		104/64
Gear arms		4 arm
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-UN26
	Threaded (E-type)	-
	Threaded (chain case)	BB-UN26-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 (175mm, w/o bottom bracket)		-
Note		

Front Hub (Rim/Disc Brake)

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	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	Quick release
Quick release skewer length	129 mm	-	-
	133 mm	✓	✓
Thru Axle (Length x Inner diameter)	100 x 15 mm	-	-
	110 x 15 mm	-	-
	110 x 20 mm	-	-
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		-	-
Note			

SL

BL

BL

RD

FD

BR

FC

HB

FH

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	Silver
	2 Quick release	Black	Black
Brake Type		Rim	Rim brake
Speeds		8-10-speed	8/9-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)	135 x 10 mm	-	-
	135 x 12 mm	-	-
	142 x 12 mm	-	-
	148 x 12 mm	-	-
	150 x 12 mm	-	-
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 (w/o axle, quick release nor lock ring)		-	-
Note			

GRAVEL/ADVENTURE

	<i>Page</i>	
Single Lever (Hydraulic disc brake)	120	SL
Brake Lever (Sub Lever for Hydraulic disc brake)	121	BL
Shifting/Brake Lever (Hydraulic disc brake)	122	ST
Rear Derailleur	123	RD
Front Derailleur	124	FD
Brake (Hydraulic disc brake)	125	BR
Front Chainwheel	126	FC
Wheel (Disc Brake)	127	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		222 g	227 g	263 g	
Note					

Brake Lever (Sub Lever for Hydraulic disc brake)

SL

BL

ST

RD

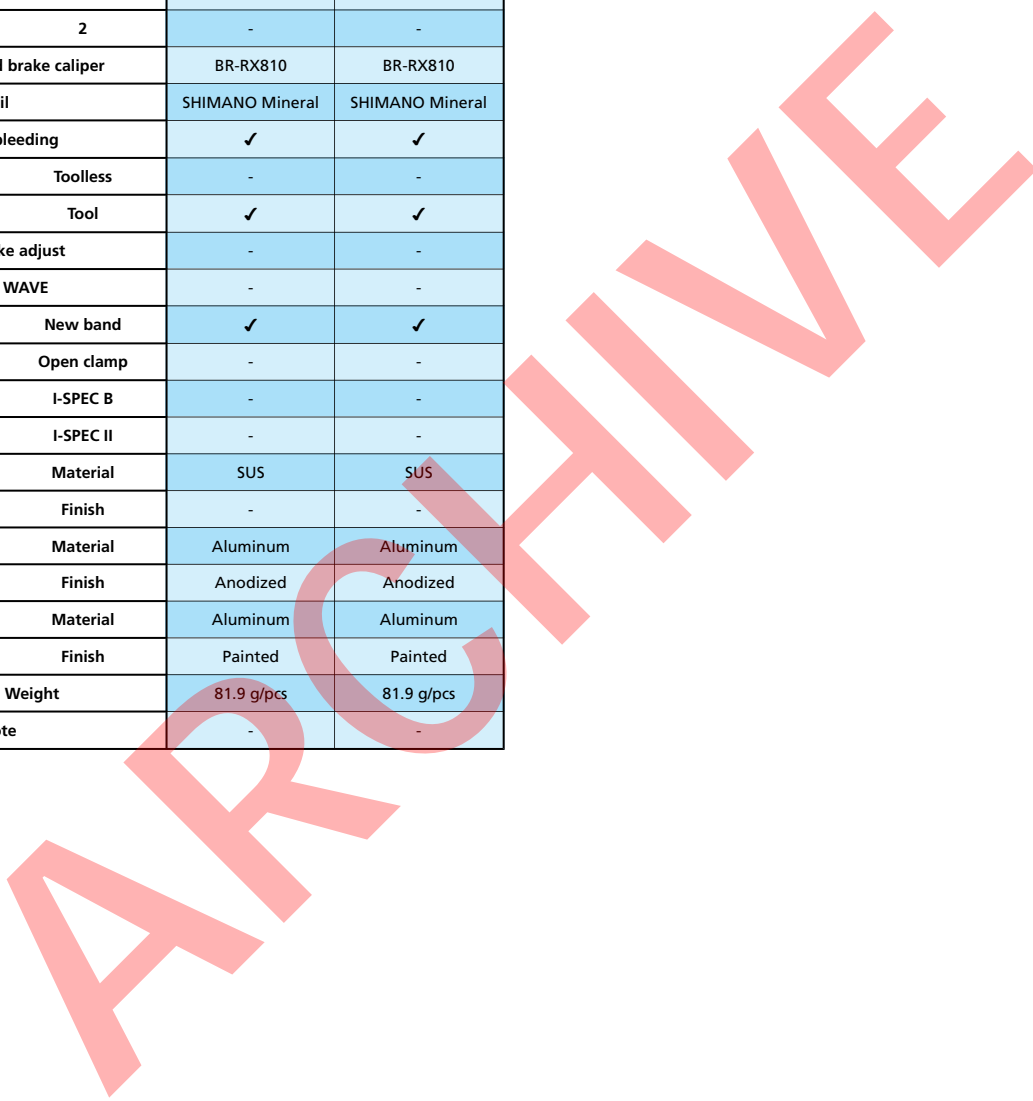
FD

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	SUS	SUS
	Finish	-	-
Brake lever	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Average Weight		81.9 g/pcs	81.9 g/pcs
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	
	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	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		286 g	284 g	307 g	306 g	307 g		
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		255 g	267 g	303 g
Note		-	-	-

SL

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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		46-50T	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 (Band type: L size, Direct type: w/ bolt)		96 g	96 g
Note			

Brake (Hydraulic disc brake)

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WH

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

Front Chainwheel

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
Chainline (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
Gear arms (pcs)		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 (170 mm, w/o bottom bracket)		710 g	656 g (42T) 644 g (40T)	806 g	810 g	743 g
Note		-	-	-	-	-

Wheel (Disc Brake)

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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
Brazed 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		-	-	-	-
SCYLENCE FREEHUB		-	-	-	-
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 (w/o quick release, rim tape, tubeless tape, valve stem, lock ring) Note		769 g	737 g	951 g	920 g

ARCHIVE

	<i>Page</i>	
Shifting/Brake Lever	130	ST
Shifting/Brake Lever (Hydraulic disc brake)	135	ST
Shifting Lever	138	SL
Brake Lever	140	BL
Brake Lever (Hydraulic disc brake)	142	BL
Brake (Caliper Brake)	143	BR
Brake (Hydraulic disc brake)	147	BR
Brake (Mechanical disc brake)	149	BR
Brake (V-BRAKE)	150	BR
Brake (Cantilever Brake)	150	BR
Brake Cable	150	BC
Rear Derailleur	151	RD
Front Derailleur	155	FD
Front Chainwheel	161	FC
Bottom Bracket (HOLLOWTECH II)	166	BB
Bottom Bracket	166	BB
Cassette Sprocket	167	CS
Front Hub (Rim/Disc Brake)	170	HB
FREEHUB (Rim/Disc Brake)	172	FH
Wheel (Rim Brake)	174	WH
Wheel (Disc Brake)	179	WH
Head Parts	182	HP

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	SUS	SUS	SUS	SUS	SUS	SUS
		Finish	Polymer coated	Polymer coated	Polymer coated	Polymer coated	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		365 g/pair	365 g/pair	365 g/pair	220 g	218 g	425 g/pair	
Note					* Use bush	* Use bush	* Use bush	

Shifting/Brake Lever

Series		SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO 105	SHIMANO TIAGRA	
Model no.		ST-R7000-R	ST-R7000-L	ST-5800	ST-5700	ST-5703	ST-4700-R	
Color	1	Silky black	Silky black	Black	Silver	Silver	Series color	
	2	Spark silver	Spark silver	Silver	Black	Black	-	
Bracket cover color	1	Black	Black	Black	Black	Black	Black	
	2	-	-	White	White	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	-	10	
	OPTICAL GEAR DISPLAY	-	-	-	-	-	-	
	FLIGHT DECK	-	-	-	-	-	-	
	Multi-Bearing construction	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	SUS	SUS	SUS	SUS	SUS	SUS
		Finish	OPTISLICK	OPTISLICK	OPTISLICK	SIL-TEC	SIL-TEC	OPTISLICK
	Shifting lever cable shipping condition	Not Pre-Assembled	✓	✓	✓	✓	✓	✓
Pre-Assembled		✓	✓	✓	✓	✓	✓	
Brake lever	Reach adjust	Screw	Screw	Screw	Spacer Use	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	Silver: Clear Coated Black Paint	Silver: Clear Coated Black Paint	Painted	
Average Weight		251 g/pc	249 g/pc	486 g/pair	490 g/pair	507 g/pair	-	
Note		-	-	-	-	-	-	

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Shifting/Brake Lever

Series		SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO	SHIMANO SORA	SHIMANO SORA	SHIMANO SORA	
Model no.		ST-4700-L	ST-4703-L	ST-R460	ST-R3000-R	ST-R3000-L	ST-R3030-L	
Color	1	Series color	Series color	Black	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Black	Black	Black	Standard	Standard	Standard	
	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	3	2	-	2	3	
	Rear speeds	-	-	10	9	-	-	
	OPTICAL GEAR DISPLAY	-	-	✓	-	-	-	
	FLIGHT DECK	-	-	-	-	-	-	
	Multi-Bearing construction	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-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed	OT-SP41 Sealed
	Shifting lever cable	Material	SUS	SUS	SUS	SUS	SUS	SUS
		Finish	OPTISLICK	OPTISLICK	-	OPTISLICK	OPTISLICK	OPTISLICK
	Shifting lever cable shipping condition	Not Pre-Assembled	✓	✓	✓	-	-	-
Pre-Assembled		✓	✓	-	✓	✓	✓	
Brake lever	Reach adjust	Screw	Screw	Spacer Use	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		-	-	-	-	-	-	
Note				SHIMANO logo Compatible with Caliper/Canti/Road disc brake Not compatible with V-BRAKE/Compact V-BRAKE				

Shifting/Brake Lever

Series		SHIMANO	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	
Model no.		ST-R353	ST-R2000-R	ST-R2000-L	ST-R2030-L	ST-RS200-R	ST-RS200-L	
Color	1	Black	Series color	Series color	Series color	Series color	Series color	
	2	-	-	-	-	-	-	
Bracket cover color	1	Black	Black	Black	Black	-	-	
	2	-	-	-	-	-	-	
Lever type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	DUAL CONTROL LEVER	RAPIDFIRE PLUS	RAPIDFIRE PLUS	
Shifting lever	Front speeds	3	-	2	3	-	2	
	Rear speeds	-	8	-	-	8	-	
	OPTICAL GEAR DISPLAY	✓	-	-	-	✓	✓	
	FLIGHT DECK	-	-	-	-	-	-	
	Multi-Bearing construction	-	-	-	-	-	-	
	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	SUS	Steel	Steel	Steel	Steel	Steel
		Finish	SIL-TEC	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK	OPTISLICK
	Shifting lever cable shipping condition	Not Pre-Assembled	✓	-	-	-	-	-
Pre-Assembled		-	✓	✓	✓	✓	✓	
Brake lever	Reach adjust	Spacer Use	Screw	Screw	Screw	✓	✓	
	Clamp band (mm)	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	23.8 - 24.2	22.2	22.2	
	SLR-EV	-	-	-	-	-	-	
	NEW SUPER SLR	✓	✓	✓	✓	-	-	
	super SLR	-	-	-	-	✓	✓	
Bracket	Cable adjuster bracket	-	-	-	-	✓	✓	
	Material	GFRP	GFRP	GFRP	GFRP	Aluminum	Aluminum	
	Finish	GFRP	GFRP	GFRP	GFRP	Painted	Painted	
Main lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Average Weight		-	-	-	-	-	-	
Note	SHIMANO logo Compatible with Caliper/Canti/Road disc brake Not compatible with V-BRAKE/Compact V-BRAKE							

ST

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BR

BR

BR

BR

BC

RD

FD

FC

BB

BB

CS

HB

FH

WH

WH

HP

Shifting/Brake Lever

Series		SHIMANO CLARIS	SHIMANO TOURNEY	SHIMANO TOURNEY	
Model no.		ST-RS203-L	ST-A070	ST-A073-L	
Color	1	Series color	Series color	Series color	
	2	-	-	-	
Bracket cover color	1	-	Black	Black	
	2	-	-	-	
Lever type		RAPIDFIRE PLUS	DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds		3	2	3
	Rear speeds		-	7	-
	OPTICAL GEAR DISPLAY		✓	✓	✓
	FLIGHT DECK		-	-	-
	Multi-Bearing construction		-	-	-
	Outer casing	Lever side	OT-SP41	OT-SIS40	OT-SIS40
		Rear derailleur side	OT-SP41 Sealed	OT-SIS40	OT-SIS40
	Shifting lever cable	Material	Steel	SUS Option	SUS Option
		Finish	OPTISLICK	-	-
	Shifting lever cable shipping condition	Not Pre-Assembled	-	✓	✓
Pre-Assembled		✓	-	-	
Brake lever	Reach adjust		✓	Screw	Screw
	Clamp band (mm)		22.2	23.8 - 24.2	23.8 - 24.2
	SLR-EV		-	-	-
	NEW SUPER SLR		-	-	-
	super SLR		✓	✓	✓
Bracket	Cable adjuster bracket		✓	-	-
	Material		Aluminum	GFRP	GFRP
	Finish		Painted	GFRP	GFRP
Main lever	Material		Aluminum	Aluminum	Aluminum
	Finish		Painted	Painted	Painted
Average Weight		-	-	-	
Note					

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	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	-	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	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	Engineering Composite	
	Finish	-	-	-	-	-	-	
Brake lever	Material	CFRP	CFRP	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	Resin & Steel	Resin & Steel	
Master cylinder	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Clamp band		Titanium	Titanium	Steel	Steel	Steel	Steel	
Average Weight		538 g/pair	538 g/pair	554 g/pair	554 g/pair	568 g/pair	568 g/pair	
Note						For small hand.	For small hand.	

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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	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-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	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	Engineering Composite	Engineering Composite	Engineering Composite	Engineering Composite	
	Finish	-	-	-	-	-	-	
Brake lever	Material	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Shifter lever body	Main	-	-	-	-	-	-	
	Release	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	
Master cylinder	Material	-	-	-	-	-	-	
	Finish	-	-	-	-	-	-	
Clamp band	Steel	Steel	Steel	Steel	Steel	Steel		
Average Weight	610 g/pair	610 g/pair	619 g/pair	619 g/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	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		-	-	649 g/pair	649 g/pair	-	-	
Note		For small hand.	For small hand.	-	-	-	-	

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Shifting Lever

Series		DURA-ACE	SHIMANO	DURA-ACE	DURA-ACE	SHIMANO TIAGRA	SHIMANO TIAGRA
Model no.		SL-BSR1	SL-R5700	SL-B579	SL-7900	SL-4700	SL-4703
Color	1	Series color	Silver	Series color	Series color	Series color	Series color
	2	-	Black	-	-	-	-
Shifter type		Bar end Shifter	RAPIDFIRE PLUS	Bar end Shifter	Down Tube Shifter	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2	2	2/3	2/3	2	3
Rear speeds		11	11	10	10	10	-
Compatible rear derailleur type		ROAD 11-speed	ROAD 11-speed	ROAD 10-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
Shifting lever bracket	Material	-	Aluminum	-	-	Aluminum	Aluminum
	Finish	-	Painted	-	-	Painted	Painted
Main lever body	Material	Aluminum	CFRP	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Coated	Painted	Clear Coated	Clear Coated	Painted	Painted
Release lever body	Material	-	GFRP & 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	SIL-TEC	-	-
Recommended Shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight		153 g/pair	210 g/pair	153 g/pair	63 g/pair	-	-
Note			* Pull: single Push: double				

Series		SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO	DURA-ACE	DURA-ACE	SHIMANO SORA
Model no.		SL-4600	SL-4603	SL-R460	SL-B577	SL-7700	SL-R3000-R
Color	1	Series color	Series color	Black	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	Bar end Shifter	Down Tube Shifter	RAPIDFIRE PLUS
Front speeds		2	3	2	2/3	2/3	-
Rear speeds		10	-	10	9	9	9
Compatible rear derailleur type		ROAD 10-speed	-	ROAD 10-speed	ROAD 9-speed	ROAD 9-speed	RD-R3000
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	-	-	✓
Max. multiple shifts (Main lever/rear)		4	-	4	-	-	3
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	✓ (R)	-	✓ (right side)	-	-	-
	2-WAY RELEASE	✓	✓	✓	-	-	✓
OPTICAL GEAR DISPLAY	With	✓	✓	✓	-	-	✓
	With (removable)	-	-	-	-	-	-
	Without	-	-	-	✓	✓	-
Multi-Bearing construction		R:2 L:2	2	R:2 L:2	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	-	-	Aluminum
	Finish	Painted	Painted	Painted	-	-	Painted
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Clear Coated	Clear Coated	Painted
Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	-	-	Resin & Steel
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	SUS
	Finish	-	-	-	-	-	OPTISLICK
Recommended Shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight		-	-	-	-	-	-
Note				SHIMANO logo			

Shifting Lever

Series		SHIMANO SORA	SHIMANO SORA	SHIMANO	SHIMANO	SHIMANO CLARIS	SHIMANO CLARIS
Model no.		SL-R3000-L	SL-R3030-L	SL-R350-R	SL-R353	SL-R2000-R	SL-R2000-L
Color	1	Series color	Series color	Black	Black	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS
Front speeds		2	3	-	3	-	2
Rear speeds		-	-	9	-	8	-
Compatible rear derailleur type		FD-R3000	FD-R3030	ROAD 9-speed	-	ROAD 8-speed	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Max. multiple shifts (Main lever/rear)		-	-	3	-	3	-
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	✓	✓	✓
OPTICAL GEAR DISPLAY	With	✓	✓	✓	✓	✓	✓
	With (removable)	-	-	-	-	-	-
	Without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Main lever body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Resin & Steel	Resin & Steel
	Finish	Painted	Painted	Painted	Painted	-	-
Release lever body	Material	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	SUS	SUS	Stainless steel	Stainless steel	Steel	Steel
	Finish	OPTISLICK	OPTISLICK	-	-	OPTISLICK	OPTISLICK
Recommended Shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41	OT-SP41
Average Weight		-	-	-	-	-	-
Note				SHIMANO logo	SHIMANO logo		

Series		SHIMANO CLARIS	SHIMANO	SHIMANO A050	SHIMANO A050	SHIMANO	SHIMANO
Model no.		SL-R2030-L	SL-R400	SL-A050-7R	SL-A050-LN	SL-SY20A-7	SL-SY20A-6
Color	1	Series color	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	Down Tube Shifter	Handle Bar Mount Shifter	Handle Bar Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter
Front speeds		3	2/3	-	2 (Friction)	2 (Friction)	2 (Friction)
Rear speeds		-	8	7	-	7	6
Compatible rear derailleur type		-	ROAD 8-speed	ROAD 8-speed	-	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	Aluminum	-	Steel	Steel	Steel	Steel
	Finish	Painted	-	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Main lever body	Material	Resin & Steel	Aluminum	Resin	Resin	Resin	Resin
	Finish	-	Painted	-	-	-	-
Release lever body	Material	Resin & Steel	-	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Steel	Stainless steel	Steel	Steel	Steel	Steel
	Finish	OPTISLICK	-	Standard	Standard	Standard	Standard
Recommended Shifting lever outer casing		OT-SP41	OT-SP41	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Average Weight		-	-	-	-	-	-
Note						Stem and brazed on, band types are available	Stem and brazed on, band types are available

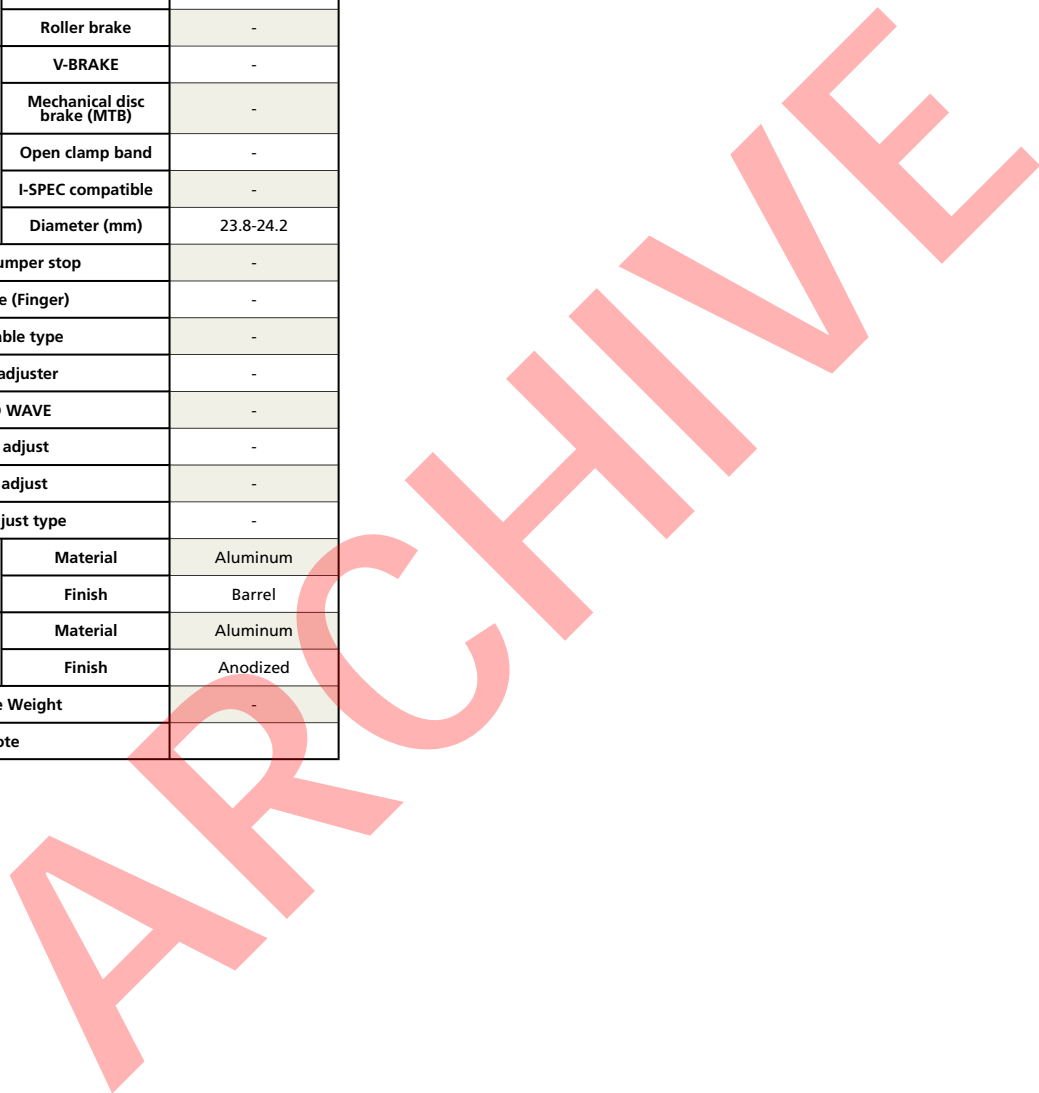
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Brake Lever

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		89 g/pair	-	-	-	170 g/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		-
Note		



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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		

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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	-	-	-	-	-	-
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		20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm
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	Painted	Painted
Titanium cable fixing bolt		✓	✓	✓	✓	-	-
Titanium pivot bolt		✓	✓ (fixing bolt)	✓ (fixing bolt)	✓ (fixing bolt)	-	-
Average Weight		326 g/pair	150 g/pc	139 g/pc	148 g/pc	182 g (Front) 178 g (Rear)	174 g/pc
Note				Need inline cable adjuster (SM-CB90) for cable adjusting and quick release feature.			

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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	
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		20.8 - 28 mm	20.8 - 28 mm	*19 - 28 mm	*19 - 28 mm	*19 - 28 mm	20.8 - 28 mm	
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/Painted	
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized/Painted	
Gate	Material	-	-	Aluminum	-	-	Aluminum	
	Finish	-	-	Anodized	-	-	Anodized/Painted	
Quick release lever	Material	-	Resin	Aluminum	Aluminum	Aluminum	Resin	
	Finish	-	Painted	Painted	Painted	Painted	-	
Titanium cable fixing bolt		-	-	-	-	-	-	
Titanium pivot bolt		-	-	-	-	-	-	
Average Weight		160 g/pc	172 g/pc	335 g/pair	173 g/pc	168 g/pc	379 g/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	-	-	-	-	-	-	
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		20.8 - 28 mm	20.8 - 28 mm	20.8 - 28 mm	19 - 26 mm	19 - 28 mm	19 - 26 mm	
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		174 g/pc	173 g/pc	174 g/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	
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		19 - 26 mm	19 - 26 mm	
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		-	-	
Note		Maximum tire size: 28 mm	Quick release lever wider open Maximum tire size: 32 mm	

Brake (Hydraulic disc brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	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 (available for international standard mount with mount adapter)		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		133 g/pc	123 g/pc	148 g/pc	138 g/pc	147 g/pc	138 g/pc
Note						-	-

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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	RT-MT800	RT-MT800
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓	✓	✓	✓
Mount type (available for international standard mount with mount adapter)		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				271 g/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	Silver	Black	Black
	2	Black	-	-
Compatibility		NEW SUPER SLR	NEW SUPER SLR	NEW SUPER SLR
ICE TECHNOLOGIES pad compatible caliper		-	✓	✓
Pad	Standard	G02S Resin	K02S Resin	K02S Resin
	Option 1	-	L02A Resin	L02A 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), RT-MT800 (140 mm)	SM-RT54/RT56 (160 mm), RT-MT800 (140 mm/160 mm)	SM-RT54/RT56 (160 mm), RT-MT800 (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		-	-	-
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		-
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		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	SUS	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
B-axle 2	Finish	Anodized	-	-	-	-	-
	Hollow axle	-	-	-	-	-	-
	Material	Aluminum	-	-	-	-	-
Bracket body	Finish	Anodized	-	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
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		158 g	158 g	200 g	210 g	195 g	207 g
Note		* w/o Bracket spec available		* w/o Bracket spec available	* w/o Bracket spec available		

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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	Finish	-	-	-	Plated	Plated	-
	Hollow axle	-	-	-	-	-	-
	Material	-	-	-	-	-	-
Bracket body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	-	Plated	Plated	Plated	Plated	Plated
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		248 g	225 g	232 g	230 g	243 g	-
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		-	-	-	-	-	-
Note					SHIMANO logo		

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		-
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	Series color	Series color	Series color	Series color	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	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
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		-	-	-	-	-	-
Chainline (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	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	-	-	-	-	-	-
Stroke Adjusting Screw	Material	Steel	Steel	Aluminum	Aluminum	Stainless steel	Stainless steel
	Finish	Black	Black	Anodized	Anodized	Black	Black
Average Weight (Band type: L size, Direct type: w/ bolt)		70 g	85 g	66 g	78 g	92 g	106 g
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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-5700-B
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	2
	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)	-	✓ (w/ S size adapter)
		31.8	-	✓	-	✓	✓
		34.9	-	✓	-	✓	✓
	Brazed-On	✓	-	✓	-	✓	-
Cable adjust		-	-	✓	✓	-	-
Top-Pull exclusive option		-	-	-	-	-	-
Chainline (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		46-53T	46-53T	46-53T	46-53T	50-56T	50-56T
Total capacity		16T	16T	16T	16T	16T	16T
Applicable Top-Mid tooth difference		-	-	-	-	-	-
Angled clamp band design		-	-	-	✓	-	-
Multi-bearing construction		-	-	-	-	-	-
Link bushings		7	7	7	7	-	-
Front clamp band	Material	-	Aluminum	-	Aluminum	-	Aluminum
	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	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 (Band type: L size, Direct type: w/ bolt)		89 g	104 g	95 g	111 g	89 g	105 g
Note				-	-		

Front Derailleur

Series		SHIMANO 105	SHIMANO 105	SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO TIAGRA	SHIMANO TIAGRA
Model no.		FD-5703-F	FD-5703-B	FD-4700-F	FD-4700-B	FD-4703-F	FD-4703-B
Color	1	Black	Black	Series color	Series color	Series color	Series color
	2	Silver	Silver	-	-	-	-
Speeds	Front	3	3	2	2	3	3
	Rear	10	10	10	10	10	10
Compatible chain		HG 10-speed	HG 10-speed	HG-X chain/CN-HG500	HG-X chain/CN-HG500	HG-X chain/CN-HG500	HG-X chain/CN-HG500
Action	TOP SWING	-	-	-	-	-	-
	Down Swing	✓	✓	✓	✓	✓	✓
Mount	Clamp Band (mm)	28.6	-	✓ (w/ S size adapter)	-	✓*	-
		31.8	-	✓	-	✓	-
		34.9	-	✓	-	✓	-
	Brazed-On	✓	-	✓	-	✓	-
Cable adjust		-	-	-	-	-	-
Top-Pull exclusive option		-	-	-	-	-	-
Chainline (mm)		45	45	43.5	43.5	45	45
Chain stay angle (deg.)		63 - 66	63 - 66	61 - 66	61 - 66	63 - 66	63 - 66
Top gear teeth		50T	50T	46-52T	46-52T	50T	50T
Total capacity		20T	20T	16T	16T	20T	20T
Applicable Top-Mid tooth difference		11T	11T	-	-	11T	11T
Angled clamp band design		-	-	-	-	-	-
Multi-bearing construction		-	-	-	-	-	-
Link bushings		-	-	-	-	-	-
Front clamp band	Material	-	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	Painted	Painted	Painted	Painted	Painted
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
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 (Band type: L size, Direct type: w/ bolt)		114 g	132 g	-	-	-	-
Note					* 28.6 mm Clamp band: 31.8 mm w/ Adapter		* 28.6 mm Clamp band: 31.8 mm w/ Adapter

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Front Derailleur

Series		SHIMANO	SHIMANO	SHIMANO SORA	SHIMANO SORA	SHIMANO SORA	SHIMANO SORA
Model no.		FD-CX70-F-T	FD-CX70-F-D	FD-R3000-F	FD-R3000-B	FD-R3030-F	FD-R3030-B
Color	1	Gray	Gray	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Speeds	Front	2	2	2	2	3	3
	Rear	10	10	9	9	9	9
Compatible chain		HG 10-speed	HG 10-speed	-	-	-	-
Action	TOP SWING	-	-	-	-	-	-
	Down Swing	✓	✓	✓	✓	✓	✓
Mount	Clamp Band (mm)	28.6	-	-	✓ (w/ S size adapter)	-	✓ (w/ S size adapter)
		31.8	-	-	✓ (w/ M size adapter)	-	✓ (w/ M size adapter)
		34.9	-	-	-	✓	✓
	Brazed-On	✓	✓	✓	-	✓	-
Cable adjust		-	-	-	-	-	-
Top-Pull exclusive option		✓	-	-	-	-	-
Chainline (mm)		43.5	43.5	43.5	43.5	45	45
Chain stay angle (deg.)		63 - 66	63 - 66	61 - 66	61 - 66	63 - 66	63 - 66
Top gear teeth		46-52T	46-52T	46-52T	46-52T	50T	50T
Total capacity		16T	16T	16T	16T	20T	20T
Applicable Top-Mid tooth difference		-	-	-	-	11T	11T
Angled clamp band design		-	-	✓	✓	✓	✓
Multi-bearing construction		-	-	-	-	-	-
Link bushings		7	7	-	-	-	-
Front clamp band	Material	-	-	-	Aluminum	-	Aluminum
	Finish	-	-	-	Painted	-	Painted
Rear clamp band, base bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
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	Steel	Steel	Steel	Steel
	Finish	-	-	Ni plated	Ni plated	Ni plated	Ni plated
Stroke Adjusting Screw	Material	Stainless steel	Stainless steel	Steel	Steel	Steel	Steel
	Finish	-	-	Zinc plated	Zinc plated	Zinc plated	Zinc plated
Average Weight (Band type: L size, Direct type: w/ bolt)		92 g	87 g	-	-	-	-
Note							

Front Derailleur

Series		SHIMANO	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO CLARIS	SHIMANO TOURNEY
Model no.		FD-R353-B	FD-R2000-F	FD-R2000-B	FD-R2030-F	FD-R2030-B	FD-A070-A
Color	1	Black	Series color	Series color	Series color	Series color	Series color
	2	-	-	-	-	-	-
Speeds	Front	3	2	2	3	3	2
	Rear	9	8	8	8	8	7
Compatible chain		HG 9-speed	HG 8-speed	HG 8-speed	HG 8-speed	HG 8-speed	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		-	-	-	-	-	-
Chainline (mm)		45	43.5	43.5	45	45	43.5
Chain stay angle (deg.)		63 - 66	61 - 66	61 - 66	63 - 66	63 - 66	61 - 66
Top gear teeth		50T	46-52T	46-52T	50T	50T	50T
Total capacity		20T	16T	16T	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	-	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
Outer link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner link	Material	Aluminum	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	Painted
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 (Band type: L size, Direct type: w/ bolt)		-	-	-	-	-	-
Note		SHIMANO logo					

Front Derailleur

Series		SHIMANO TOURNEY	SHIMANO A050
Model no.		FD-A073	FD-A050
Color	1	Series color	Series color
	2	-	-
Speeds	Front	3	2 (Friction)
	Rear	7	7
Compatible chain		HG	HG
Action	TOP SWING	-	-
	Down Swing	✓	✓
Mount	Clamp Band (mm)	28.6	✓ (w/ S size adapter)
		31.8	✓ (w/ M size adapter)
		34.9	✓
	Brazed-On	-	-
Cable adjust		-	-
Top-Pull exclusive option		-	-
Chainline (mm)		45	43.5
Chain stay angle (deg.)		63 - 66	61 - 66
Top gear teeth		50T	53T
Total capacity		20T	16T
Applicable Top-Mid tooth difference		11T	16T
Angled clamp band design		✓	-
Multi-bearing construction		-	-
Link bushings		-	-
Front clamp band	Material	Steel	Steel
	Finish	Painted	Zinc plated
Rear clamp band, base bracket	Material	Aluminum	Steel
	Finish	Painted	Zinc plated
Outer link	Material	Steel	Steel+Resin
	Finish	Painted	Zinc plated
Inner link	Material	Steel	Steel
	Finish	Painted	Zinc plated
Chain guide	Material	Steel	Steel
	Finish	Painted	Chrome plated
Cable fixing bolt	Material	Steel	Steel
	Finish	Ni plated	Zinc plated
Stroke Adjusting Screw	Material	Steel	Steel
	Finish	Zinc plated	Zinc plated
Average Weight (Band type: L size, Direct type: w/ bolt)		-	-
Note			

Front Chainwheel

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
Chainline (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
Gear arms (pcs)		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	✓	-	✓	✓	-	-
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-BBR60-PB	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 (170 mm, w/o bottom bracket)		650 g (55-42T) 642 g (54-42T) 626 g (53-39T) 624 g (52-36T) 614 g (50-34T)	696 g (53-39T) 695 g (52-36T) 685 g (50-34T)	-	639 g (55-42T) 632 g (54-42T) 618 g (53-39T) 622 g (52-38T) 618 g (52-36T) 610 g (50-34T)	690 g (53-39T) 681 g (52-36T) 674 g (50-34T) 668 g (46-36T)	713.4 g (50-34T) 742.6 g (52-36T) 757.8 g (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			

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Front Chainwheel

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
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
Chainline (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
Gear arms (pcs)		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 (NEW)
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 (NEW))
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized (52-36T, 50-34T) Anodized and Painted (48-34T (NEW))
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 (170 mm, w/o bottom bracket)		908 g (50-34T)	566 g (52T, 1/2 inch x 1/8 inch)	716 g	831 g	798 g	-
Note							

Front Chainwheel

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
Chainline (mm)		45	43.5	43.5	43.5	43.5	43.5
P.C.D. left / right (mm)		110/74	110	110	110/74	130/74	110
Gear arms (pcs)		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	SUS	SUS	SUS	SUS
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	Stainless steel	-	-	SUS	SUS	SUS
	Finish	-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average Weight (170 mm, w/o bottom bracket)		-	-	-	-	-	-
Note			SHIMANO logo			w/ Chain guard spec.	

Front Chainwheel

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
Chainline (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
Gear arms (pcs)		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	BBES300	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	SUS	Stainless steel	SUS	SUS	SUS	SUS
	Finish	-	-	-	-	-	-
Inner ring fixing bolt	Material	SUS	-	SUS	SUS	SUS	SUS
	Finish	-	-	-	-	-	-
Crank fixing bolt included		✓	✓	✓	✓	✓	✓
Average Weight (170 mm, w/o bottom bracket)		-	-	-	-	-	-
Note		w/ Chain guard spec.					

Front Chainwheel

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
Chainline (mm)		43.5	43.5	45
P.C.D. left / right (mm)		110	Riveted	Riveted
Gear arms (pcs)		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	-	-	-
	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)	BB-UN26	BB-UN26	BB-UN26
	Press-fit	-	-	-
Axle length of BB-UN/E5 (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 (170 mm, w/o bottom bracket)		-	-	-
Note				

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- HB
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- WH
- WH
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Bottom Bracket (HOLLOWTECH II)

Series		DURA-ACE	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		65 g	54 g	69 g	77 g	92 g	71 g
Note							

Bottom Bracket

Series		DURA-ACE	DURA-ACE	SHIMANO 105	SHIMANO TIAGRA	SHIMANO TOURNEY A070	
Model no.		BB-7700	BB-7710	BB-5500	BB-E551	BB-UN26	
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)	-	-	-	-	✓ (for double)
		70 (M36)	-	-	-	-	✓ (for double)
	LL113.0	68 (BC1.37)	-	-	-	-	✓ (for triple)
		70 (M36)	-	-	-	-	✓ (for triple)
	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	Steel
Finish		Plated	Plated	Plated	Plated	Plated	
Left hand adapter	Material	Aluminum	Aluminum	Aluminum	Resin	Resin	
	Finish	Anodized	Anodized	Anodized	-	-	
Average Weight		173 g	244 g	-	-	-	
Note		-	For track	-	-	-	

Cassette Sprocket

Series		DURA-ACE	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Model no.		CS-R9100	CS-R8000	CS-6800
Type		HG-EV	HG-EV	HG-EV
Speeds		11-speed	11-speed	11-speed
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	11-23T
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	11-12-13-14-15-16-17-18-19-21-23T
	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	1
	Material	Carbon	Carbon/Aluminum	Carbon/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		175 g (11-25T) 193 g (11-28T) 211 g (11-30T) 189 g (12-25T) 205 g (12-28T)	232 g (11-25T) 251 g (11-28T) 269 g (11-30T) 243 g (12-25T) 300 g (14-28T) 292 g (11-32T)	212 g
Note		* Titanium gear	-	-

Series		SHIMANO	SHIMANO 105	SHIMANO 105
Model no.		CS-HG800-11	CS-R7000	CS-HG700-11
Type		HG-EV	HG-EV	HG-EV
Speeds		11-speed	11-speed	11-speed
Compatible chain		HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11	HG-EV 11-speed/HG-X11
Combination name (Group name)		11-34T	11-28T 11-30T 11-32T 12-25T	11-34T
Combination * Titanium gear	Combination 1	11-13-15-17-19-21-23-25-27-30-34T	11-12-13-14-15-17-19-21-23-25-28T	11-13-15-17-19-21-23-25-27-30-34T
	Combination 2	-	11-12-13-14-15-17-19-21-24-27-30T	-
	Combination 3	-	11-12-13-14-16-18-20-22-25-28-32T	-
	Combination 4	-	12-13-14-15-16-17-18-19-21-23-25T	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	2	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	Aluminum	Steel	Steel
	Finish	Anodized	Nickel plated	Nickel plated
Average Weight		335 g	284 g (11-28T) 304 g (11-30T) 320 g (11-32T) 269 g (12-25T)	379 g
Note		-	-	-

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- CS
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- FH
- WH
- WH
- HP

Cassette Sprocket

Series		DURA-ACE	SHIMANO ULTEGRA	SHIMANO 105
Model no.		CS-7900	CS-6700	CS-5700
Type		HG	HG	HG
Speeds		10-speed	10-speed	10-speed
Compatible chain		HG 10-speed	HG 10-speed	HG 10-speed
Combination name (Group name)		11-25T 11-27T 11-28T 12-27T	11-25T 11-28T 12-25T 12-30T	11-25T 11-28T
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	11-12-13-14-15-17-19-21-23-25T
	Combination 2	11-12-13-14-15-17-19-21-24-27T	11-12-13-14-15-17-19-21-24-28T	11-12-13-14-15-17-19-21-24-28T
	Combination 3	11-12-13-14-15-17-19-21-24-28T	12-13-14-15-16-17-19-21-23-25T	-
	Combination 4	12-13-14-15-16-17-19-21-24-27T	12-13-14-15-17-19-21-24-27-30T	-
	Combination 5	-	-	-
	Combination 6	-	-	-
	Combination 7	-	-	-
Spider arm	QTY (pcs)	2	1	1
	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Titanium gear	Finish	Titanium	-	-
Aluminum gear	Finish	-	-	-
Steel gear	Finish	Nickel plated	Nickel plated	Nickel plated
Lock ring	Material	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Nickel plated
Average Weight		180 g (11-25T) 184 g (11-27T) 187 g (11-28T) 189 g (12-27T)	229 g (11-25T) 242 g (11-28T) 238 g (11-25T) - (12-30T)	245 g (11-25T) 255 g (11-28T)
Note		-	-	-

Series		SHIMANO	SHIMANO SORA	SHIMANO SORA
Model no.		CS-HG500-10	CS-HG50-9	CS-HG400-9
Type		HG	HG	HG
Speeds		10-speed	9-speed	9-speed
Compatible chain		HG-X 10-speed/HG 10-speed/CN-HG500	HG 9-speed	HG 9-speed
Combination name (Group name)		11-25T 12-28T 11-32T 11-34T	11-30T (bQ) 12-25T 13-25T 14-25T	11-25T (G)
Combination * Titanium gear	Combination 1	11-12-13-14-15-17-19-21-23-25T	11-12-14-16-18-20-23-26-30T (bQ)	11-12-13-15-17-19-21-23-25T (G)
	Combination 2	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)	-	-	-
	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	Nickel plated
Average Weight		-	-	-
Note		-	-	NEW gear combination

Cassette Sprocket

Series		SHIMANO CLARIS	SHIMANO TOURNEY A070	SHIMANO TOURNEY A070
Model no.		CS-HG50-8	CS-HG41-7	CS-HG20-7
Type		HG	HG	HG
Speeds		8-speed	7-speed	7-speed
Compatible chain		CN-HG71	IG/HG	IG/HG
Combination name (Group name)		11-28T (bf) 11-30T (an) 11-32T (aw) 11-34T (Ca) 12-23T (U) 12-25T (W) 13-26T (V)	11-28T (ac)	12-28T (E)
Combination * Titanium gear	Combination 1	11-13-15-17-19-21-24-28T (bf)	11-13-15-18-21-24-28T (ac)	12-14-16-18-21-24-28T (E)
	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	Brown&Black
Lock ring	Material	Steel	Steel	Steel
	Finish	Nickel plated	Phosphate coated	Phosphate coated
Average Weight		-	-	-
Note		-	-	-

ARCHIVE

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WH

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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)	100 x 8 mm	-	-	-	-	-	-
	100 x 12 mm	-	-	-	-	-	✓
	100 x 15 mm	-	-	-	-	-	-
	110 x 20 mm	-	-	-	-	-	-
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 (w/o axle and lock ring)		120 g	298 g (rear w/ lock ring), 203 g (front)	313 g (rear LF w/ lock ring) 241 g (front LF)	158 g	155 g	165 g
Note		* Aero spoke hole available(18H/24H) ** Super Finishing	For Track * Dishing Distance R (Single Thread): 2.75 mm / (Double Thread): 0	-	-	-	-

Front Hub (Rim/Disc Brake)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	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)	100 x 8 mm	-	-	-	-	-
	100 x 12 mm	✓	-	✓	-	-
	100 x 15 mm	-	-	-	-	-
	110 x 20 mm	-	-	-	-	-
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 (w/o axle and lock ring)		125 g	-	-	-	-
Note		-	-	-	-	-

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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)	135 x 10 mm	-	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-	-
	142 x 12 mm	-	-	-	✓	✓	-
	148 x 12 mm	-	-	-	-	-	-
	150 x 12 mm	-	-	-	-	-	-
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 (w/o axle and lock ring)		247 g	330 g	368 g	361 g	302 g	-
Note	* Can be used for 10-speed with an additional spacer ** Aero spoke hole available *** Flange Distance:56.5, Dish:9.95(only for 28H), **** Super Finishing.		* Can be used for 10-speed with an additional spacer	* Can be used for 10-speed with an additional spacer	* Can be used for 10-speed with an additional spacer.	* Can be used for 10-speed with an additional spacer. For disc brake/CENTER LOCK mount	* Can be used for 10-speed with an additional spacer

FREEHUB (Rim/Disc Brake)

Series		SHIMANO	SHIMANO	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)	135 x 10 mm	-	-	-	-	-
	135 x 12 mm	-	-	-	-	-
	142 x 12 mm	✓	-	-	-	-
	148 x 12 mm	-	-	-	-	-
	150 x 12 mm	-	-	-	-	-
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 (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)

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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)	100 x 8 mm	-	-	-	-	-	-	
	100 x 12 mm	-	-	-	-	-	-	
	100 x 15 mm	-	-	-	-	-	-	
	110 x 20 mm	-	-	-	-	-	-	
	135 x 10 mm	-	-	-	-	-	-	
	135 x 12 mm	-	-	-	-	-	-	
	142 x 12 mm	-	-	-	-	-	-	
	150 x 12 mm	-	-	-	-	-	-	
Bearing	Stainless ball	✓	✓	✓	✓	✓	✓	
	Cup	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	CBN finish	
	Cone	CBN finish	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	✓	✓	✓	✓	✓	✓		
SCYLENCE FREEHUB	-	-	-	-	-	-		
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	-	Contact	-	Contact	-	Contact	
Grease holding function	✓	✓	✓	✓	✓	✓		
Requires rim tape	✓	✓	✓	✓	✓	✓		
Tire	Type	Clincher	Clincher	Tubular	Tubular	Clincher	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	23-622 - 28-622	
Rim	Material	Carbon+AL	Carbon+AL	Carbon	Carbon	Carbon+AL	Carbon+AL	
	Finish	Painting	Painting	Painting	Painting	painting	painting	
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	
	Finish	Black	Black	Black	Black	Black	Black	
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Silver	Silver	Silver	Silver	Black	Black	
FREEHUB body	Material	-	Titanium (Rear)	-	Titanium (Rear)	-	Titanium	
	Finish	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Quick release housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	
Quick release nut	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Color	Series color	Series color	Series color	Series color	Series color	Series color	
Compatible Spoke protector		CP-W124						
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	
	AS	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	CATEYE RR-550-WUA SW	
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	
Average Weight (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		832 g	1,019 g	666 g	830 g	674 g	834 g	
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	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)	100 x 8 mm	-	-	-	-	-	
	100 x 12 mm	-	-	-	-	-	
	100 x 15 mm	-	-	-	-	-	
	110 x 20 mm	-	-	-	-	-	
	135 x 10 mm	-	-	-	-	-	
	135 x 12 mm	-	-	-	-	-	
	142 x 12 mm	-	-	-	-	-	
150 x 12 mm	-	-	-	-	-		
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	✓	✓	✓	✓	-	-	
SCYLENCE FREEHUB	-	-	-	-	-	-	
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	Black	Black	Black	Black	Black	
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	-	Titanium	-	Titanium	-	
	Finish	-	-	-	-	Steel	
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 SV	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SV	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 SV	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 SV	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	
Average Weight (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	637 g	747 g	618 g	835 g	616 g	924 g	
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
- 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-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	-	-	-	White	White	
	2 Quick release	-	-	-	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	-	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)	100 x 8 mm	-	-	-	-	-	
	100 x 12 mm	-	-	-	-	-	
	100 x 15 mm	-	-	-	-	-	
	110 x 20 mm	-	-	-	-	-	
	135 x 10 mm	-	-	-	-	-	
	135 x 12 mm	-	-	-	-	-	
	142 x 12 mm	-	-	-	-	-	
	150 x 12 mm	-	-	-	-	-	
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	✓	✓	-	-	-	-	
SCYLENCE FREEHUB	-	-	-	-	-	-	
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	-	-	-	-	-	
	Finish	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	-	
Axle	Material	Aluminum	Aluminum	Steel	Steel	Steel	
	Finish	Anodized	Anodized	-	-	-	
Quick release lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Quick release housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Quick release nut	Material	Resin	Resin	Resin	Resin	Resin	
	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 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 (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	705 g	944 g	770 g	1,057 g	875 g	1,176 g	
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-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	-	
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	24	
	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	9	10	9	10	9	10	
Thru Axle (Length x Inner Diameter)	100 x 8 mm	-	-	-	-	-	
	100 x 12 mm	-	-	-	-	-	
	100 x 15 mm	-	-	-	-	-	
	110 x 20 mm	-	-	-	-	-	
	135 x 10 mm	-	-	-	-	-	
	135 x 12 mm	-	-	-	-	-	
	142 x 12 mm	-	-	-	-	-	
150 x 12 mm	-	-	-	-	-		
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	-	-	-	-	-	-	
SCYLENCE FREEHUB	-	-	-	-	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	
Grease holding function	-	-	-	-	-	-	
Requires rim tape	18-622 Clincher	18-622 Clincher	✓ 23-622 - 32-622 Clincher	✓ 23-622 - 32-622 Clincher	✓ 23-622 - 32-622 Clincher	✓ 23-622 - 32-622 Clincher	
Tire	Type	18-622 Clincher	18-622 Clincher	✓ 23-622 - 32-622 Clincher	✓ 23-622 - 32-622 Clincher	✓ 23-622 - 32-622 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	-	
	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 (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	827 g	1,105 g	818 g	1,102 g	820 g	1,069 g	
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
- BR
- BC
- RD
- FD
- FC
- BB
- BB
- CS
- HB
- FH
- WH
- WH
- HP

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)	100 x 8 mm	-	-
	100 x 12 mm	-	-
	100 x 15 mm	-	-
	110 x 20 mm	-	-
	135 x 10 mm	-	-
	135 x 12 mm	-	-
	142 x 12 mm	-	-
150 x 12 mm	-	-	
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		-	-
SCYLENCE FREEHUB		-	-
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 (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		820 g	1,069 g
Note			

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	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
SPEC						
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	28
	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	-	-	-	-	-
	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	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	-	-	-	-	-	-
SCYLENCE FREEHUB	-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	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	-
	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 (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	678 g	829 g	739 g	883 g	609 g	763 g
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

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BR

BR

BR

BC

RD

FD

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BB

CS

HB

FH

WH

WH

HP

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	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	
SPEC							
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	Sleeved
	Brazed reinforcement	-	-	-	-	-	-
Spokes	Number (Front/Rear)	24	24	24	24	28	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	-	-	-	-	-	-	
SCYLENCE FREEHUB	-	-	-	-	-	-	
Seal	Hub	Contact	Contact	Contact	Contact	Contact	
	FREEHUB body	-	Contact	Contact	Contact	-	
Grease holding function	✓	✓	✓	✓	✓	✓	
Requires rim tape	-	✓	✓	✓	✓	✓	
Tire	Type	Tubeless	Tubeless	Tubeless	Tubeless	Clincher	Clincher
	Recommended size	25-622 - 38-622	25-622 - 38-622	28-622 - 45-622	28-622 - 45-622	28-622 - 42-622	28-584 - 42-584
Rim	Material	Carbon+AL	Carbon+AL	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized/Painted	Anodized/Painted	Anodized/Painted	Anodized/Painted
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Aluminum	Aluminum	Aluminum	Aluminum	Brass	Brass
	Finish	Black	Black	Black	Black	Silver	Silver
FREEHUB body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Axle	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	-	Steel	-	-
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	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 (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	733 g	904 g	890 g	1,090 g	897 g	867 g	
Note		* 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-RS171-CL-R12-700C	WH-RS171-CL-R12-650B	WH-RS170-CL-F12	WH-RS170-CL-R12	WH-RX010-CL-F	WH-RX010-CL-R
Model name SPEC		WH-RS171-CL-R12-700c	WH-RS171-CL-R12-650b	WH-RS170-CL-F12	WH-RS170-CL-R12	WH-RX010-CL-F	WH-RX010-CL-R
Color	1 Hub Shell	Black	Black	Black	Black	Black	Black
	1 Quick release	-	-	-	-	Black	Black
	2 Hub Shell	-	-	White	White	White	White
	2 Quick release	-	-	-	-	Black	Black
Front/Rear		Rear	Rear	Front	Rear	Front	Rear
Brake Type		CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds		10*/11	10*/11	-	10*/11	-	10*/11
O.L.D. (mm) (Front/Rear)		142	142	100	142	100	135
Wheel Size		622 x 19C (700c)	584 x 19C (650b)	622 x 17C	622 x 17C	622 x 17C	622 x 17C
Rim	Height (mm)	19	19	24	24	24	24
	Width (mm)	24.6	24.6	23	23	23	23
	Rim joint	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	-	-	-	-	-	-
Spokes	Number (Front/Rear)	28	28	28	28	28	28
	Straight spoke	-	-	-	-	-	-
	Bladed	-	-	-	-	-	-
	Butted	-	-	-	-	-	-
Axle Fixing method		12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	12 mm E-THRU	Quick release	Quick release
Quick release skewer length (mm)	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	Polish	Polish	Polish	Polish	Polish	Polish
	Cone	CBN finish	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		-	-	-	-	-	-
SCYLENCE FREEHUB		-	-	-	-	-	-
Seal	Hub	Contact	Contact	Contact	Contact	Contact	Contact
	FREEHUB body	Contact	Contact	Contact	Contact	Contact	Contact
Grease holding function		✓	✓	✓	✓	✓	✓
Requires rim tape		✓	✓	✓	✓	✓	✓
Tire	Type	Clincher	Clincher	Clincher	Clincher	Clincher	Clincher
	Recommended size	28-622 - 42-622	28-584 - 42-584	25-622 - 38-622	25-622 - 38-622	25-622 - 38-622	25-622 - 38-622
Rim	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized/Painted	Anodized/Painted	Anodized (Black)	Anodized (Black)	Anodized (Black)	Anodized (Black)
Spoke	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	Black	Black	Black	Black	Black	Black
Nipple	Material	Brass	Brass	Brass	Brass	Brass	Brass
	Finish	Silver	Silver	Silver	Silver	Silver	Silver
FREEHUB body	Material	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	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)	-	CP-FH08/CP-WH12 (11-speed) CP-FH40/CP-FH41/CP-WH12 (10-speed)
Reflector	JIS/CPSC	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	CATEYE RR-550-WUW SW	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 (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)		1,098 g	1,067 g	942 g	1,149 g	982 g	1,177 g
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	-	* 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

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		101 g
Note		

ARCHIVE

	<i>Page</i>	
Internal Geared Hub	184	SG
Chain Tensioner	189	CT
Cassette Sprocket	190	CS
Shifting Lever	191	SL
Brake Lever (Hydraulic disc brake)	195	BL
Brake Lever	196	BL
Brake (Hydraulic disc brake)	196	BR
Brake (Roller Brake)	197	RB
Shifting/Brake Lever (Hydraulic disc brake)	199	ST
Front Chainwheel	200	FC
Rear Derailleur	201	RD
Front Derailleur	201	FD
Front Hub (Roller Brake)	202	HB
FREEHUB (Roller Brake)	203	FH
FREEHUB (Band Brake)	204	FH
Wheel (Disc Brake)	205	WH
Head Parts	206	HP

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-C7000-5V	SG-C7000-5R	SG-C7000-5C	SG-C7000-5D
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	V-BRAKE	INTER-M	Coaster Brake	CENTER LOCK disc brake
	Recommended Model	-	BR-S700	-	BR-C6000 BR-C3010 BR-C3000	-	-
Speeds		11	8	5	5	5	5
Gear ratio	Total	409%	307%	263%	263%	263%	263%
	1	0.527	0.527	1	1	1	1
	2	0.681	0.644	1.277	1.277	1.277	1.277
	3	0.770	0.748	1.622	1.622	1.622	1.622
	4	0.878	0.851	2.07	2.07	2.07	2.07
	5	0.995	1	2.63	2.63	2.63	2.63
	6	1.134	1.223	-	-	-	-
	7	1.292	1.419	-	-	-	-
	8	1.462	1.615	-	-	-	-
	9	1.667	-	-	-	-	-
	10	1.888	-	-	-	-	-
11	2.153	-	-	-	-	-	
Shifting structure		Top Normal	Top Normal	Top Normal	Top Normal	Top Normal	Top Normal
Silent clutch		✓	✓	✓	✓	✓	✓
Gear change support mechanism		✓	✓	✓	✓	✓	✓
Shifting POWER MODULATOR		✓	✓	✓	✓	✓	✓
Driving efficiency		High	High	High	High	High	High
w/ Left hand dust cap		-	-	✓	-	-	-
O.L.D. (mm)		135	135	135	135	135	135
Spoke size		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	-	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	-	-	-
	184	-	-	-	-	-	-
	187	✓	✓	✓	✓	✓	✓
	193	-	-	-	-	-	-
	Others	-	-	-	-	-	-
Flange distance (mm)		57.3	57.3	58.3	58.3	58.3	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)		3.2	3.2	3.2	3.2	3.7	3.2
P.C.D Left/Right. (mm)		92.6	92.6	92.6	92.6	92.6	92.6
Hub shell	material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	finish	Anodized	Anodized	Painted	Painted	Painted	Painted
Average Weight		1,665 g	1,670 g	1,670 g	1,670 g	1,970 g	1,650 g
Note		-	-	-	-	-	-

Internal Geared Hub

Series		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Model no.		SG-C6011-8V	SG-C6011-8R	SG-C6001-8V	SG-C6001-8R	SG-C6001-8C	SG-C6001-8D
Function name		INTER-8	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	V-BRAKE	INTER-M	V-BRAKE	INTER-M	Coaster Brake	CENTER LOCK disc brake
	Recommended Model	-	BR-C6000 BR-C3010 BR-C3000	-	BR-C6000 BR-C3010 BR-C3000	-	-
Speeds		8	8	8	8	8	8
Gear ratio	Total	307%	307%	307%	307%	307%	307%
	1	0.527	0.527	0.527	0.527	0.527	0.527
	2	0.644	0.644	0.644	0.644	0.644	0.644
	3	0.748	0.748	0.748	0.748	0.748	0.748
	4	0.851	0.851	0.851	0.851	0.851	0.851
	5	1	1	1	1	1	1
	6	1.223	1.223	1.223	1.223	1.223	1.223
	7	1.419	1.419	1.419	1.419	1.419	1.419
	8	1.615	1.615	1.615	1.615	1.615	1.615
	9	-	-	-	-	-	-
	10	-	-	-	-	-	-
11	-	-	-	-	-	-	
Shifting structure		Low Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal
Silent clutch		✓	✓	✓	✓	✓	✓
Gear change support mechanism		✓	✓	✓	✓	✓	✓
Shifting POWER MODULATOR		✓	✓	✓	✓	✓	✓
Driving efficiency		High	High	Standard	Standard	Standard	Standard
w/ Left hand dust cap		✓	-	✓	-	-	-
O.L.D. (mm)		132	132	132	132	132	135
Spoke size		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	-	-	-	-	-	-
	32H	✓	✓	✓	✓	✓	✓
	36H	✓	✓	✓	✓	✓	✓
	Others	-	40H	-	40H	-	-
Axle length (mm)	182	-	-	-	-	-	-
	184	✓	✓	✓	✓	✓	-
	187	-	-	-	-	-	✓
	193	-	-	-	-	-	-
	Others	-	-	203	203	-	-
Flange distance (mm)		58.3	58.3	58.3	58.3	58.3	57.3
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)		2.7	2.7	2.7	2.7	2.55	3.1
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		1,685 g	1,660 g	1,735 g	1,710 g	2,040 g	1,730 g
Note		-	-	-	-	-	-

SG

CT

CS

SL

BL

BL

BR

RB

ST

FC

RD

FD

HB

FH

FH

WH

HP

Internal Geared Hub

Series		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Model no.		SG-C6001-8CD	SG-C3001-7R	SG-C3001-7C	SG-C3001-7C-DX	SG-C3001-7D	SG-5R30
Function name		INTER-8	INTER-7	INTER-7	INTER-7	INTER-7	INTER-5
Color	1	Silver	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	INTER-M	Coaster Brake	Coaster Brake	CENTER LOCK disc brake	INTER-M
	Recommended Model	-	BR-C3010 BR-C3000	-	-	-	BR-C3010 BR-C3000 BR-IM31 (specification for Japan)
Speeds		8	7	7	7	7	5
Gear ratio	Total	307%	244%	244%	244%	244%	206%
	1	0.527	0.632	0.632	0.632	0.632	0.750
	2	0.644	0.741	0.741	0.741	0.741	1.001
	3	0.748	0.843	0.843	0.843	0.843	1.159
	4	0.851	0.989	0.989	0.989	0.989	1.335
	5	1	1.145	1.145	1.145	1.145	1.545
	6	1.223	1.335	1.335	1.335	1.335	-
	7	1.419	1.545	1.545	1.545	1.545	-
	8	1.615	-	-	-	-	-
	9	-	-	-	-	-	-
	10	-	-	-	-	-	-
11	-	-	-	-	-	-	
Shifting structure		Low Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal
Silent clutch		✓	-	-	-	-	✓
Gear change support mechanism		✓	-	-	-	-	-
Shifting POWER MODULATOR		✓	-	-	-	-	-
Driving efficiency		Standard	Standard	Standard	Standard	Standard	Standard
w/ Left hand dust cap		-	-	-	-	-	-
O.L.D. (mm)		135	130	127	127	135	132
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	-	210
Flange distance (mm)		58.3	54.6	56.2	56.2	54.6	54.6
Flange diameter (mm)		105.2	99.6	92.5	92.5	99.6	86
Flange width (mm)	Right	3.2	3.2	2.3	2.3	3.2	2.3
	Left	3.2	3.2	2.7	2.7	3.2	2.5
Offset (mm)		4	3.85	4.6	4.6	2.5	0.3
P.C.D Left/Right. (mm)		92.6	87	83.5	83.5	87	76
Hub shell	material	Aluminum	Aluminum	Steel	Steel	Aluminum	Steel
	finish	Painted	Painted	Plated	Plated+ Painted(clear)	Painted	Plated
Average Weight		2,090 g	1,495 g	1,915 g	1,915 g	1,470 g	1,305 g
Note		-	-	-	-	-	*Japan market only

Internal Geared Hub

Series		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Model no.		SG-5R30-VS	SG-5R35-VS	SG-3R75-B	SG-3R40	SG-3R42	SG-3C41
Function name		INTER-5	INTER-5	INTER-3	INTER-3	INTER-3	INTER-3
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	-	Black	-	-	-	-
	3	-	-	-	-	-	-
Brake Type	Mount Type	V-BRAKE	V-BRAKE	INTER-M	INTER-M	INTER-M	Coaster brake
	Recommended Model	-	-	BR-C3010 BR-C3000 BR-IM31 (specification for Japan)	BR-C3010 BR-C3000 BR-IM31 (specification for Japan)	BR-C3010 BR-C3000 BR-IM31 (specification for Japan)	-
Speeds		5	5	3	3	3	3
Gear ratio	Total	206%	206%	158%	186%	186%	186%
	1	0.750	0.750	0.632	0.733	0.733	0.733
	2	1.001	1.001	0.741	1.000	1.000	1.000
	3	1.159	1.159	1.000	1.364	1.364	1.364
	4	1.335	1.335	-	-	-	-
	5	1.545	1.545	-	-	-	-
	6	-	-	-	-	-	-
	7	-	-	-	-	-	-
	8	-	-	-	-	-	-
	9	-	-	-	-	-	-
	10	-	-	-	-	-	-
11	-	-	-	-	-	-	
Shifting structure		Low Normal	Low Normal	Low Normal	Low Normal	Low Normal	Low Normal
Silent clutch		✓	✓	✓	-	-	-
Gear change support mechanism		-	-	-	✓	✓	✓
Shifting POWER MODULATOR		-	-	-	✓	✓	✓
Driving efficiency		Standard	Standard	HIGH	Standard	Standard	Standard
w/ Left hand dust cap		✓	✓	-	-	-	-
O.L.D. (mm)		132	132	122	120/127/130	120	120/127
Spoke size		#13/#14	#13/#14	#13/#14	#13/#14	#13/#14	#13/#14
Spoke hole	28H	-	-	-	✓	✓	✓
	32H	✓	✓	-	✓	-	-
	36H	✓	✓	✓	✓	✓	✓
	Others	-	-	-	-	-	-
Axle length (mm)	182	-	-	-	✓	✓	-
	184	✓	✓	-	✓	-	-
	187	-	-	-	-	-	-
	193	-	-	✓	-	-	-
	Others	210	-	174/198/200	170/177/189/192	192	168/175/178
Flange distance (mm)		54.6	54.6	51.1	53	53	57.5
Flange diameter (mm)		86	86	92.5	84	70	67.5
Flange width (mm)	Right	2.3	2.3	2.3	2.3	3.0	2.3
	Left	2.5	2.5	2.7	2.3	3.0	2.3
Offset (mm)		0.3	0.3	3.6	0.8(120mm Axle) / 2.5	0.8	1.2 / 2.7(175mm Axle)
P.C.D Left/Right. (mm)		76	76	83.5	74	60	59
Hub shell	material	Steel	Aluminum	Steel	Steel	Steel	Steel
	finish	Plated	Painted	Plated	Plated	Plated	Plated
Average Weight		1,330 g	1,255 g	1,315 g	885 g	872 g	1,120 g
Note		*Japan market only	*Japan market only	-	-	Specification for Japan market	-

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Internal Geared Hub

Series		SHIMANO NEXUS
Model no.		SG-3D55
Function name		INTER-3
Color	1	Silver
	2	Black
	3	-
Brake Type	Mount Type	CENTER LOCK disc brake
	Recommended Model	-
Speeds		3
Gear ratio	Total	186%
	1	0.733
	2	1.000
	3	1.364
	4	-
	5	-
	6	-
	7	-
	8	-
	9	-
	10	-
11	-	
Shifting structure		Low Normal
Silent clutch		✓
Gear change support mechanism		✓
Shifting POWER MODULATOR		✓
Driving efficiency		Standard
w/ Left hand dust cap		-
O.L.D. (mm)		135
Spoke size		#13/#14
Spoke hole	28H	-
	32H	✓
	36H	✓
	Others	-
Axle length (mm)	182	-
	184	-
	187	-
	193	✓
	Others	-
Flange distance (mm)		53.5
Flange diameter (mm)		77.6
Flange width (mm)	Right	3.2
	Left	3.2
Offset (mm)		1.7
P.C.D Left/Right. (mm)		65
Hub shell	material	Aluminum
	finish	Painted
Average Weight		945 g
Note		-

Chain Tensioner

Series		SHIMANO ALFINE	SHIMANO ALFINE
Model no.		CT-S500	CT-S510
Color	1	Silver	-
	2	Black	-
	3	-	Silver&Black
Speeds		Single	Single
Compatible chain		CN-HG93 CN-HG71 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			

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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-X 10-speed	-	-	-
	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		METREA	METREA	SHIMANO ALFINE	SHIMANO ALFINE	SHIMANO ALFINE	SHIMANO NEXUS
Model no.		SL-U5000-R	SL-U5000-L	SL-S700	SL-S7000-8	SL-S503	SL-C6000-8
Color	1	Series color	Series color	Silver	Silver	Silver	Silver
	2	-	-	Black	Black	Black	Black
	3	-	-	-	-	-	-
Shifter type		RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	RAPIDFIRE PLUS	REVOSHIFT
Top-Normal		-	-	✓	✓	-	-
Front speeds		-	2	-	-	-	-
Rear speeds		11	-	11	8	8	8
Compatible rear derailleur/internal geared hub type		Road 11-speed rear derailleur	-	SG-S7001-11	SG-S7000-8 SG-S7001-8	SG-S501 NEXUS INTER-8	NEXUS INTER-8
Compatible front derailleur type		-	FD-U5000-F FD-6800	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Max. multiple shifts (Main lever/rear)		4	-	2	1	1	7
Release function	MULTI RELEASE	✓**	✓	✓	-	-	-
	INSTANT RELEASE	✓	✓	-	-	-	-
	2-WAY RELEASE	✓	✓	✓	✓	✓	-
OPTICAL GEAR DISPLAY	with	-	-	Above handlebar	Above handlebar	Above handlebar	Window
	with (removable)	-	-	-	-	-	-
	without	✓	✓	-	-	-	-
Multi-Bearing construction		2	2	-	-	-	-
Shifting lever bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Resin
	Finish	Painted	Painted	Painted	Painted	Painted	Resin
Main lever body	Material	Aluminum	Aluminum	Steel & Resin	Steel & Resin	Steel & Resin	-
	Finish	Painted	Painted	-	-	-	-
Release lever body	Material	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	Steel & Resin	-
	Finish	-	-	-	-	-	-
Base cover	Material	-	-	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Finish	OPTISLICK	OPTISLICK	-	-	-	-
Recommended shifting lever outer casing		OT-SP41	OT-SP41	OT-SP41	OT-SP40	OT-SP40	OT-SP40
Clamping Diameter (mm)		-	-	22.2	22.2	22.2	22.2
Average Weight		220 g/pair	220 g/pair	-	-	-	-
Note		* I-SPEC II ** Pull:single, Push:double	* I-SPEC II	-	-	-	-

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Shifting Lever

Series		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Model no.		SL-7550	SL-C3000-7	SL-C7000-5	SL-5550	SL-5530	SL-5530-A
Color	1	Silver	Silver	Silver	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	-	White	White
Shifter type		RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT	RAPIDFIRE PLUS	REVOSHIFT	REVOSHIFT
Top-Normal		-	-	✓	-	-	-
Front speeds		-	-	-	-	-	-
Rear speeds		7	7	5	5	5	5
Compatible rear derailleur/internal geared hub type		NEXUS INTER-7	NEXUS INTER-7	NEXUS INTER-5E	NEXUS INTER-5	NEXUS INTER-5	NEXUS INTER-5
Compatible front derailleur type		-	-	-	-	-	-
Shifting lever position adjust		-	-	-	-	-	-
Shifting lever cable adjust		✓	✓	✓	✓	✓	✓
Max. multiple shifts (Main lever/rear)		1	6	4	1	4	4
Release function	MULTI RELEASE	-	-	-	-	-	-
	INSTANT RELEASE	-	-	-	-	-	-
	2-WAY RELEASE	✓	-	-	-	-	-
OPTICAL GEAR DISPLAY	with	Window	Window	Window	Window	Window	Window
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Aluminum	Resin	Resin	Aluminum	Resin	Resin
	Finish	Painted	Resin	Resin	Painted	Resin	Resin
Main lever body	Material	Resin & Steel	-	-	-	-	-
	Finish	-	-	-	-	-	-
Release lever body	Material	Resin & Steel	-	-	-	-	-
	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-SP40	OT-SP40	OT-SP41	OT-SP40	OT-SP40	OT-SP40
Clamping Diameter (mm)		22.2	22.2	22.2	22.2	22.2	22.2
Average Weight		-	-	-	-	-	-
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-3S42E	SL-3S41E	SL-3S35E	SL-3S58	SL-3S42	SL-3S43
Color	1	-	-	-	Silver	Silver	Silver
	2	Black	Black	Black	Black	Black	Black
	3	-	-	-	White	-	White
Shifter type		REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Top-Normal		-	-	-	-	-	-
Front speeds		-	-	-	-	-	-
Rear speeds		3	3	3	3	3	3
Compatible rear derailleur/internal geared hub type		NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3	NEXUS INTER-3
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	Window	Dial	Window	Window	Window
	with (removable)	-	-	-	-	-	-
	without	-	-	-	-	-	-
Multi-Bearing construction		-	-	-	-	-	-
Shifting lever bracket	Material	Resin	Resin	Aluminum	Resin	Resin	Resin
	Finish	Resin	Resin	Painted	Resin	Resin	Resin
Main lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Release lever body	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Base cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	-	-	-	-
Shifting lever cable	Material	Stainless steel	Stainless steel	Stainless steel	Steel	Steel	Steel
	Finish	-	-	-	Standard	Standard	Standard
Recommended shifting lever outer casing		OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40	Normal
Clamping Diameter (mm)		22.2	22.2	22.2	22.2	22.2	22.2
Average Weight		-	-	-	-	-	-
Note							

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Shifting Lever

Series		SHIMANO NEXUS	SHIMANO NEXUS
Model no.		SL-3S90	SL-3S91J
Color	1	Gray	-
	2	Black	-
	3	-	White
Shifter type		Piano-touch	Piano-touch
Top-Normal		-	-
Front speeds		-	-
Rear speeds		3	3
Compatible rear derailleur/internal geared hub type		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
Release function	MULTI RELEASE	-	-
	INSTANT RELEASE	-	-
	2-WAY RELEASE	-	-
OPTICAL GEAR DISPLAY	with	Dial	Dial
	with (removable)	-	-
	without	-	-
Multi-Bearing construction		-	-
Shifting lever bracket	Material	Steel	Steel
	Finish	Painted	Painted
Main lever body	Material	Resin & Steel	Resin & Steel
	Finish	-	-
Release lever body	Material	Resin & Steel	Resin & Steel
	Finish	-	-
Base cover	Material	Resin	Resin
	Finish	-	-
Shifting lever cable	Material	Steel	Steel
	Finish	Standard	Standard
Recommended shifting lever outer casing		Normal	Normal
Clamping Diameter (mm)		22.2	22.2
Average Weight		-	-
Note			

Brake Lever (Hydraulic disc brake)

Series		METREA	METREA	METREA	SHIMANO ALFINE
Model no.		BL-U5010-L	BL-U5000-R	BL-U5000-L	BL-S7000
Brake type		Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake	Hydraulic disc brake
Lever size (Finger)		-	2.5	2.5	3
Color	1	Series color	Series color	Series color	Series Black
	2	-	-	-	Series Silver
	3	-	-	-	-
Brake hose (Kit)		SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS	SM-BH59-JK-SS
Hose joint		Straight	Straight	Straight	Straight
Brake hose color (kit)	1	Black	Black	Black	Black
	2	-	-	-	-
Recommended brake caliper		BR-U5000	BR-U5000	BR-U5000	BR-S7000
Oil		SHIMANO Mineral	SHIMANO Mineral	SHIMANO Mineral	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	Steel	Steel	Steel	Stainless steel
	Finish	Plated	Plated	Plated	-
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Anodized
Master cylinder	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Average Weight		333 g/pc	133 g/pc	133 g/pc	-
Note		Use with ST-U5060-R Need 10 mm spanner to fix the clamp bolt			J-Kit spec available

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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		METREA	SHIMANO ALFINE
Model no.		BR-U5000	BR-S7000
Brake type		Hydraulic disc brake	Hydraulic disc brake
Color	1	Series color	Series Black
	2	-	Series Silver
	3	-	-
Brake hose (kit)		SM-BH59-JK-SS	SM-BH59-JK-SS
Hose joint		Straight	Straight
Brake hose color (kit)	1	Black	Black
	2	-	-
ICE TECHNOLOGIES pad compatible caliper		-	-
Brake Pad	Standard 1	K02S Resin K03S Resin	G03S Resin
	Standard 2	-	-
	Option 1	K04S Resin	-
	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		ST-U5060 BL-U5010 BL-U5000	BL-S7000
Recommended disc brake rotor		SM-RT500	SM-RT64 SM-RT66
Oil		SHIMANO Mineral	SHIMANO Mineral
ONE WAY BLEEDING		✓	✓
Mount type (available for IS mount with mount adapter)		Flat mount	Post-type
Piston		2	2
Piston material		Ceramic	Resin
Caliper	MONO-BODY	-	-
	Material	Aluminum	Aluminum
		Finish	Painted
Caliper fixing bolt	Material	Steel	Steel
	Tool size	4 mm	5 mm
	Anti loosen method	Spring washer	Snap ring
Pad mount		Pad axle	Split pin (stainless steel)
Average Weight		161 g/pc	-
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 / Outer diameter of tire (mm)	26-28 inch	-	✓	✓	✓	✓	✓
	660-712 mm	✓	-	-	-	-	-
	20-28 inch	-	-	-	-	-	-
	16-28 inch	-	-	-	-	-	-
	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
Roller brake modulator grade	16-20 inch	-	-	-	-	-	-
	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		✓	✓	✓	✓	✓	✓
Disc brake mount compatible		-	-	-	-	-	-
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	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Model no.		BR-C3010-R	BR-C3000-F	BR-C3000-F-DX	BR-C3000-R	BR-C3000-R-DX	BR-IM31-F
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		-	-	-	-	-	-
With POWER MODULATOR function		-	-	-	-	-	-
Wheel size / Outer diameter of tire (mm)	26-28 inch	✓	✓	✓	✓	✓	✓
	660-712 mm	-	-	-	-	-	-
	20-28 inch	-	-	-	-	-	-
	16-28 inch	-	-	-	-	-	-
	24-28 inch	-	-	-	-	-	-
	20-24 inch	-	-	-	-	-	-
Roller brake modulator grade	16-20 inch	-	-	-	-	-	-
	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		✓	✓	✓	✓	✓	-
Disc brake mount compatible		-	-	-	-	-	-
Note *1 Performance index rating uses BR-C3000-R brake unit as a reference value of 1. Testing condition.							

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Brake (Roller Brake)

Series	SHIMANO NEXUS	
Model no.	BR-IM31-R	
Front	-	
Rear	✓	
Structure type	Normal	
Braking power (*1)	0.9	
Cooling fin diameter (mm)	90	
Heat dissipation (*1)	Less than 1	
Without cooling fin	Available	
With POWER MODULATOR function	-	
Wheel size / 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	-	
Disc brake mount compatible	-	
Note *1 Performance index rating uses BR-C3000-R brake unit as a reference value of 1. Testing condition.		

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Shifting/Brake Lever (Hydraulic disc brake)

Series		METREA	METREA	
Model no.		ST-U5060-R	ST-U5060-L	
Color	1	Series color	Series color	
	2	-	-	
Bracket cover color	1	Black	Black	
	2	-	-	
Shifter type		DUAL CONTROL LEVER	DUAL CONTROL LEVER	
Shifting lever	Front speeds		-	2
	Rear speeds		11	-
	2/3 mode converter		-	-
	Max. multiple shifts (Main lever / rear)		2	-
	Compatible rear derailleur type		Road 11-speed	-
	Compatible front derailleur type		-	FD-6800 FD-5800
	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		OT-SP41	OT-SP41
	Shifting lever cable	Polymer-coated cable	-	-
		OPTISLICK	✓	✓
		SIL-TECH	-	-
		Stainless	-	-
Steel		-	-	
Included		-	-	
Pre assembled		✓	✓	
Brake lever	Lever size (Finger)		-	-
	Brake hose (Kit)		SM-BH59-JK-SS	SM-BH59-JK-SS
	Hose joint		Straight	Straight
	Brake hose color (kit)	1	Black	Black
		2	-	-
	Recommended brake caliper		BR-U5000	BR-U5000
	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		-	-
Diameter (mm)		29.8-30.2	29.8-30.2	
Bracket	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Brake lever	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Shifter lever body	Main		Aluminum	Aluminum
	Release		Steel & Resin	Steel & Resin
Master cylinder	Material		Aluminum	Aluminum
	Finish		Painted	Painted
Clamp band		✓	✓	
Average Weight		743 g/pair	743 g/pair	
Note		Need 10 mm spanner to fix the clamp bolt	Need 10 mm spanner to fix the clamp bolt	



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- ST**
- FC
- RD
- FD
- HB
- FH
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- WH
- HP

Front Chainwheel

Series		METREA	METREA	SHIMANO ALFINE	SHIMANO NEXUS
Model no.		FC-U5000-2	FC-U5000-1	FC-S501	FC-C6000
Color	1	Series color	Series color	Silver	Silver
	2	-	-	Black	Black
Rear speeds		11	11	(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)	✓ (CN-HG71)
	1/2 inch x 1/8 inch	-	-	-	✓ (CN-NX10)
Chainline (mm)		43.5	46.6	49.2 (double chain guard) 42.7 (single chain guard)	44
P.C.D. left/right (mm)		96	96	130	-
Gear arms (pcs)		4	4	5	-
Chaining combination		46-32T	42T	45T/42T/39T	38T/33T
Q-factor		158	158	-	-
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)	SM-BBR60	SM-BBR60	-	-
	Threaded (chain case)	-	-	-	✓
	Pressfit	SM-BB72-41B	SM-BB72-41B	-	-
Axle length of BB-UN/ES (mm)	Threaded (normal)	-	-	-	-
	Threaded (chain case)	-	-	-	BB-UN26-K
Threaded bottom bracket shell width (mm)	68	✓	✓	✓	✓
	70	✓	✓	-	-
Chain case compatible		-	-	-	✓
Crank arm	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized/Painted	Painted
Crank axle	Material	Steel	Steel	-	-
	Finish	Plated	Plated	-	-
Spider arm	Material	Aluminum	Aluminum	-	-
	Finish	Anodized	Anodized	-	-
Spider arm cover	Material	-	-	-	-
	Finish	-	-	-	-
Outer ring	Material	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Black
Middle ring	Material	-	-	-	-
	Finish	-	-	-	-
Inner ring	Material	Aluminum	-	-	-
	Finish	Anodized	-	-	-
Outer/middle ring fixing bolt	Material	SUS	SUS	-	-
	Finish	-	-	-	-
Inner ring fixing bolt	Material	-	-	-	-
	Finish	-	-	-	-
Chain guard 1	Material	Aluminum	Aluminum	Aluminum	Resin
	Finish	Anodized	Anodized	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 (170 mm, w/o bottom bracket)		1,036 g	912 g	-	-
Note		-	Chain guard material: Aluminum Finish: Anodized	-	t : Chain case thickness * Both of spec with bolt and spec w/o bolt are available.

Rear Derailleur

Series		METREA
Model no.		RD-U5000-SS
Pulley cage		SS
Color	1	Series color
	2	-
Rear speeds		11
Compatible chain		HG-X11
Mount	Direct attachment (Conventional)	-
	Riveted adapter (Road type)	-
	Riveted adapter (BMX-Track type)	-
Cable adjuster		✓
Max. front difference		14T
Total capacity		35T
Low sprocket	Max.	32T
	Min.	28T
Top sprocket	Max.	11T
	Min.	11T
Fluoric coated link bushings		2
Pulley	G pulley bearing	-
	T pulley bearing	-
	Teeth	11T
	Bolts material	Steel
	Sunken type pulley bolt	✓
Bracket	Material	-
	Finish	-
B-axle	Hollow axle	-
	Material	SUS
	Finish	-
B-axle 2	Hollow axle	-
	Material	-
	Finish	-
Bracket body	Material	Aluminum
	Finish	Painted
P-axle	Material	Steel
	Finish	Plated
Plate body	Material	Aluminum
	Finish	Painted
Outer link	Material	Aluminum
	Finish	Painted
Inner link	Material	Steel
	Finish	Painted
Outer plate	Material	Steel
	Finish	Painted
Inner plate	Material	Steel
	Finish	Painted
Average Weight		280.5 g
Note		

Front Derailleur

Series		METREA	
Model no.		FD-U5000-F	
Color	1	Series color	
	2	-	
Speeds	Front	2	
	Rear	11	
Compatible chain		Super Narrow HG for 11-speed	
Action	TOP SWING	-	
	Down Swing	✓	
Mount	Clamp Band (mm)	28.6	-
		31.8	-
		34.9	-
	Brazed-On	✓	
Top-Pull exclusive option		-	
Chainline (mm)		43.5	
Chain stay angle		63-66	
Top gear teeth		46T	
Total capacity		14T	
Applicable Top-Mid tooth difference		-	
Angled clamp band design		-	
Multi-Bearing construction		-	
Link bushings		-	
Front clamp band	Material	-	
	Finish	-	
Rear clamp band, base bracket	Material	Aluminum	
	Finish	Painted	
Outer link	Material	Aluminum	
	Finish	Painted	
Inner link	Material	Aluminum	
	Finish	Painted	
Chain guide	Material	Steel	
	Finish	Chrome plated	
Cable fixing bolt	Material	Stainless steel	
	Finish	-	
Stroke Adjusting Screw	Material	Steel	
	Finish	Chrome plated	
Average Weight (Band type: L size, Direct type, w/o Bolt)		94 g	
Note			

- SG
- CT
- CS
- SL
- BL
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- BR
- RB
- ST
- FC
- RD
- FD
- HB
- FH
- FH
- WH
- HP

Front Hub (Roller Brake)

Series		SHIMANO NEXAVE	SHIMANO NEXUS
Model no.		HB-IM70	HB-IM40
Color	1 Hub Shell	Silver	Silver
	1 Quick release	Silver	-
	2 Hub Shell	-	-
	2 Quick release	-	-
Type		For hub roller brake	For hub roller brake
Spoke holes	28H	-	-
	32H	-	-
	36H	✓	✓
	Others	-	-
P.C.D. (mm)		70	52
O.L.D. (mm)	100	✓	✓
	105	✓	-
Flange distance (mm)		56.8	61.5
Offset (mm)		4.2 (quick release) 3.7/6 (nut)	4.3
Wheel size (inch) / Outer diameter of tire (mm)	26-28 inch	✓	✓
	660-712 mm	-	-
	20-28 inch	-	-
	16-28 inch	-	-
	24-28 inch	-	-
	20-24 inch	✓	-
	16-20 inch	-	-
Roller brake modulator grade	More than 26 inch High	✓	-
	More than 26 inch Standard	-	✓
	20-24 inch	-	-
Axle (Nut type)	Axle length 140 mm	✓ (M9)	✓ (M9)
	Axle length 145 mm	✓ (M9)	-
	Material	Steel	Steel
Seal		✓	✓
Hub shell	Material	Aluminum	Aluminum
	Finish	Clear Painted	Machined
Structure (Braking power)		Hyper	Normal
Note			

FREEHUB (Roller Brake)

Series		SHIMANO NEXAVE	SHIMANO	SHIMANO	SHIMANO
Model no.		FH-IM70	FH-IM20	RH-IM10	RH-IM11
Color	Hub shell	Silver	Silver	Silver	Silver
	Quick release lever	-	-	-	-
Spoke holes	28H	-	✓	✓	✓
	32H	✓	-	✓	✓
	36H	✓	✓	✓	✓
	Others	-	-	-	-
	P.C.D. (mm)	45	45	74	74
FREEHUB body	Speeds	8/9-speed	7-speed	-	-
	11T compatible	✓	✓	-	-
	Roller clutch	Roller Clutch	-	-	-
	Material	Steel	Steel	-	-
O.L.D. (mm)		135	134.7	132.7 (6-speed) 134.7 (7-speed)	132.7 (6-speed) 134.7 (7-speed)
Flange diameter (mm)		53.8	54	84	84
Flange distance (mm)		60	61.2	57.1	57.1
Dish (mm)		6.8	5.85	6.9 (6-speed) 7.9 (7-speed)	6.9 (6-speed) 7.9 (7-speed)
Axle (quick release type)	Quick release Skewer Length	-	-	-	-
	Length (mm)	-	-	-	-
	Material	-	-	-	-
Axle (nut type)	Length left/right (mm)	185 (M10)	194/202	180 (M10)	180 (M10)
	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

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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 (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

Wheel (Disc Brake)

Series	METREA	METREA	METREA	METREA
Model no.	WH-U5000-CL-F	WH-U5000-CL-R	WH-U5000-CL-F12	WH-U5000-CL-R12
Model name	WH-U5000-CL	WH-U5000-CL	WH-U5000-CL	WH-U5000-CL
SPEC	F	R	F12	R12
Color	1 Hub Shell	Series color	Series color	Series color
	1 Quick release	Series color	Series color	-
	2 Hub Shell	-	-	-
	2 Quick release	-	-	-
Front/Rear	Front	Rear	Front	Rear
Brake Type	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake	CENTER LOCK disc brake
Speeds	-	11	-	11
O.L.D. (mm) (Front/Rear)	100	135	100	142
Wheel Size	622 x 17C	622 x 17C	622 x 17C	622 x 17C
Rim	Height (mm) (Front/Rear)	40	40	40
	Width (mm) (Front/Rear)	23	23	23
	Rim joint	Sleeved	Sleeved	Sleeved
	Brazed reinforcement	-	-	-
Spokes	Number (Front/Rear)	24	24	24
	Bladed	✓	✓	✓
	Butted	✓	✓	✓
Axle Fixing method	Quick release	Quick release	E-THRU	E-THRU
Quick release skewer length	129 mm	-	-	-
	133 mm	✓	-	✓
	161 mm	-	-	-
	163 mm	-	-	-
	166 mm	-	-	-
	168 mm	-	✓	-
	170 mm	-	-	-
Thru Axle (Length x inner diameter)	100 x 8 mm	-	-	-
	100 x 12 mm	-	-	✓
	100 x 15 mm	-	-	-
	110 x 20 mm	-	-	-
	135 x 10 mm	-	-	-
	135 x 12 mm	-	-	-
	142 x 12 mm	-	-	✓
	150 x 12 mm	-	-	-
Bearing	Stainless ball	-	-	-
	Cup	Polish	Polish	Polish
	Cone	CBN finish	CBN finish	CBN finish
Disc mount	CENTER LOCK	✓	✓	✓
	CENTER LOCK mount cover option	-	-	-
	140mm disc brake rotor compatible	✓	-	✓
OPTBAL	-	-	-	
D2 rim	-	-	-	
OFFSET RIM	-	-	-	
Digital adjustment system	-	-	-	
SCYLENCE FREEHUB	-	-	-	
Seal	Hub	Contact	Contact	Contact
	FREEHUB body	-	Contact	Contact
Grease holding function	✓	✓	✓	
Requires rim tape	✓	✓	✓	
Tire	Type	Clincher	Clincher	Clincher
	Recommended size	25-622 38-622	25-622 38-622	25-622 38-622
Rim	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Spoke	Material	Stainless steel	Stainless steel	Stainless steel
	Finish	Polished	Polished	Polished
Nipple	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
FREEHUB body	Material	-	Steel	-
	Finish	-	-	-
Hub shell	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Axle	Material	Steel	Steel	Steel
	Finish	-	-	-
Quick release lever	Material	Aluminum	Aluminum	-
	Finish	Anodized	Anodized	-
Quick release housing	Material	Aluminum	Aluminum	-
	Finish	Anodized	Anodized	-
Quick release nut	Material	Resin	Resin	-
	Color	Black	Black	-
Compatible spoke protector	-	-	-	
Reflector	JIS/CPSC	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
	DIN	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW	CATEYE RR-317-WUA SW
Average Weight (w/o quick release, rim tape, tubeless tape, valve stem, lock ring)	1,093 g	1,287 g	1,071 g	1,261 g
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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>	
Chain	208	CN
Chain QUICK-LINK	208	SMCN
Disc Brake Rotor	209	RT
Disc Brake Hose	211	BH
Disc Brake Rotor Adapter	212	RTAD
Outer Casing	212	OT
Cable adjuster	213	SMCB SMCA
POWER MODULATOR	213	RM
Hub Dynamo	214	DH
Light	219	LP
E-THRU axle (AX)	222	SMAX
Cycle Computer	224	SC
Pedal (SPD)	225	PD
Pedal (CLICK'R)	227	PD
Pedal (Flat Pedal)	227	PD
Pedal (SPD-SL)	228	PD

Chain

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	CN-M9100	CN-HG901-11	CN-M8100	CN-M7100	CN-E8000-11	CN-HG701-11
Type	HG	HG-X11	HG	HG	HG-X11	HG-X11
E-BIKE rear derailleur system compatible	✓	✓	✓	✓	✓	✓
Pin link plate	SIL-TEC	SIL-TEC	-	-	SIL-TEC	SIL-TEC
Roller link plate	Chromizing	SIL-TEC	Chromizing	SIL-TEC	Chromizing	SIL-TEC
Roller	SIL-TEC	SIL-TEC	-	-	-	-
Chromizing treatment roller link plate	✓	-	✓	-	✓	-
Hollow pin	✓	✓	-	-	-	-
Average Weight (114 links)	242 g	247 g	252 g	252 g	257 g	257 g
Note	QUICK-LINK		QUICK-LINK	QUICK-LINK		

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO ULTEGRA	SHIMANO ULTEGRA
Model no.	CN-HG601-11	CN-E6090-10	CN-HG95	CN-HG54	CN-6701	CN-6600
Type	HG-X11	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 10-speed	HG 10-speed
E-BIKE rear derailleur system compatible	✓	✓	-	-	-	-
Pin link plate	-	SIL-TEC	SIL-TEC	Gray	Zinc-Alloy Plated	Zinc-Alloy Plated
Roller link plate	SIL-TEC	SIL-TEC	SIL-TEC	Brown	Gray	Gray
Roller	-	-	-	-	-	-
Chromizing treatment roller link plate	-	-	-	-	-	-
Hollow pin	-	-	-	-	-	-
Average Weight (114 links)	257 g	276 g	273 g	273 g	267 g	273 g
Note						For triple

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO NEXUS
Model no.	CN-HG93	CN-E6070-9	CN-HG53	CN-HG71	CN-HG40	CN-NX10
Type	HG 9-speed	HG 9-speed	HG 9-speed	HG	HG	Single speed 1/2 inch x 1/8 inch
E-BIKE rear derailleur system compatible	-	✓	-	-	-	-
Pin link plate	Zinc-Alloy Plated	Gray	Gray	Silver	Gray	-
Roller link plate	Gray	Gray	Brown	Gray	Brown	-
Roller	-	-	-	-	-	-
Chromizing treatment roller link plate	-	-	-	-	-	-
Hollow pin	-	-	-	-	-	-
Average Weight (114 links)	299 g	276 g	299 g	324 g	324 g	-
Note						

Chain QUICK-LINK

Series	SHIMANO	SHIMANO
Model no.	SM-CN910-12	SM-CN900-11
E-BIKE rear derailleur system compatible	✓	✓
Type	HG	HG 11-speed
Pin link plate	Ni-plating	Ni-plating
Roller link plate	-	-
Roller	-	-
Chromizing treatment link pin	✓	✓
Hollow pin	-	-
Note	QUICK-LINK for CN-M9100, CN-M8100, CN-M7100	QUICK-LINK for SHIMANO 11-speed chain

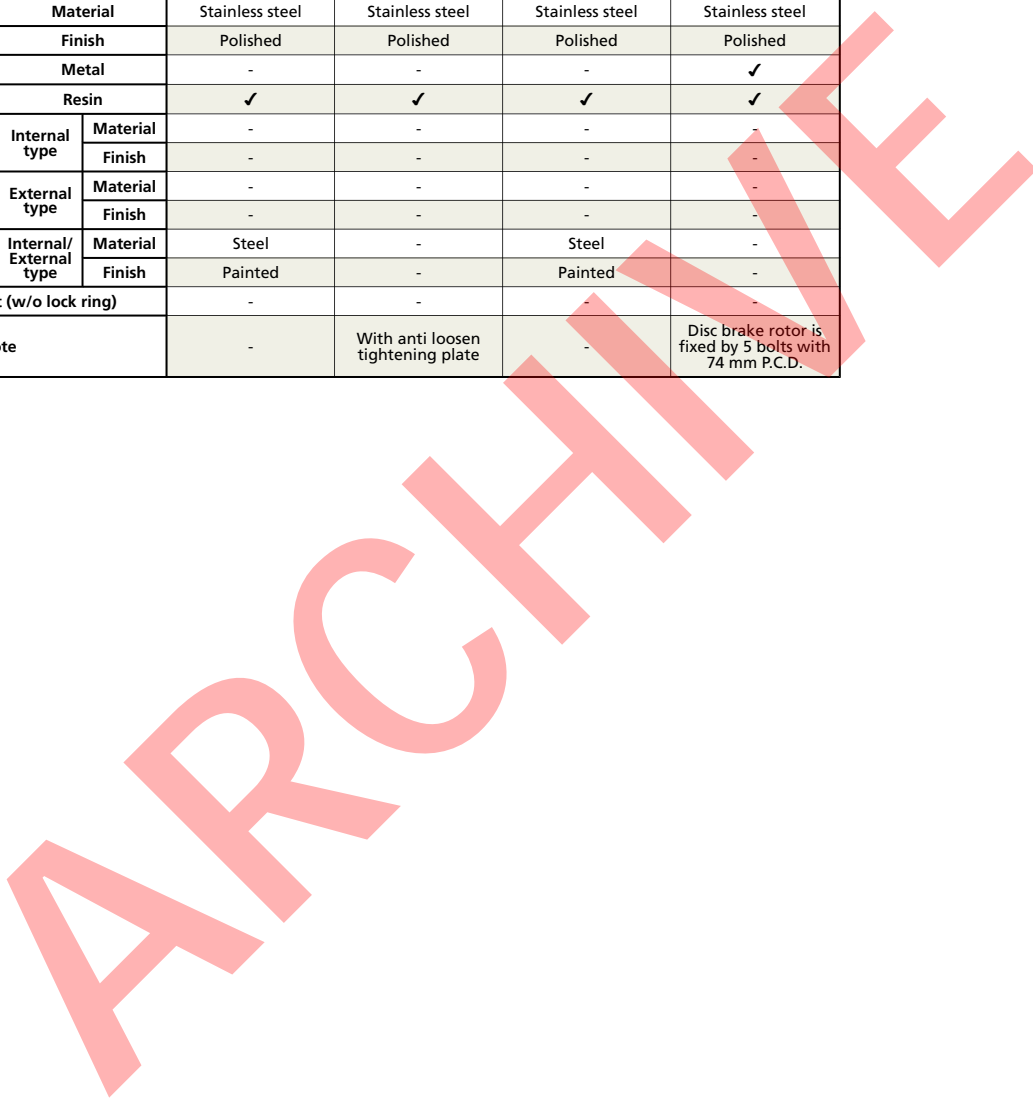
Disc Brake Rotor

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SAINT/ SHIMANO DEORE XT	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 compatibility	Metal	✓	✓	✓	✓	✓	✓
	Resin	✓	✓	✓	✓	✓	✓
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 (w/o lock ring)		147 g (203 mm) 131 g (180 mm) 108 g (160 mm) 89 g (140 mm)	164 g (203 mm) 132 g (180 mm) 109 g (160 mm) 88 g (140 mm)	118 g (160 mm) 100 g (140 mm)	128 g (160 mm) 108 g (140 mm)	187.0 g (203 mm) 154.0 g (180 mm) 135.0 g (160 mm)	193 g (203 mm) 159 g (180 mm) 133 g (160 mm) 121 g (140 mm)
Note		-	No paint on fin.	-	-	With anti loosen tightening plate	-

Series		SHIMANO DEORE XT	SLX/ SHIMANO DEORE	SHIMANO DEORE	METREA	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	Allminium	-	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 compatibility	Metal	✓	✓	✓	✓	-	-
	Resin	✓	✓	✓	✓	✓	✓
Lock ring	Internal type	Material	-	-	Steel	Allminium	Steel
		Finish	-	-	Plated	Anodized	Plated
	External type	Material	-	-	Steel	-	Steel
		Finish	-	-	Plated	-	Plated
	Internal/External type	Material	-	-	-	-	-
		Finish	-	-	-	-	-
Average Weight (w/o lock ring)		209 g (203 mm) 169 g (180 mm) 141 g (160 mm)	-	-	102.9 g	-	-
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	✓ (NEW)	-	-	-	
	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 compatibility	Metal	-	-	-	✓	
	Resin	✓	✓	✓	✓	
Lock ring	Internal type	Material	-	-	-	
		Finish	-	-	-	
	External type	Material	-	-	-	-
		Finish	-	-	-	-
	Internal/External type	Material	Steel	-	Steel	-
		Finish	Painted	-	Painted	-
Average Weight (w/o lock ring)		-	-	-	-	
Note		-	With anti loosen tightening plate	-	Disc brake rotor is fixed by 5 bolts with 74 mm P.C.D.	



Disc Brake Hose

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-BH90-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	Long	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
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	Long	-
	Banjo bolt material		-
Connecting bolt	Material		Steel
Note			

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Disc Brake Rotor Adapter

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

Outer Casing

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		OT-RS900	OT-SP41	OT-SP40	OT-SIS40
Color	Black	✓	✓	✓	✓
	White	✓	✓	✓	✓
	Yellow	-	✓	-	-
	Red	✓	✓	-	-
	Blue	-	✓	-	-
	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	-	-	-	-
	Roller brake	-	-	-	-
Compatible Brake Lever	V-BRAKE 4-finger	✓***	✓***	✓***	✓***
	V-BRAKE 3-finger	✓***	✓***	✓***	✓***
	V-BRAKE 2-finger	✓	✓	✓	✓
	Road	-	-	-	-
Body	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized + Laser Marking	Barrel and Sticker	Barrel and Printed	Barrel and Sticker
Lead pipe	Material	Stainless steel	-	-	Stainless steel
Note		** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	* City use for Japan market ** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake	** Except brake integrated POWER MODULATOR *** POWER MODULATOR should be used for front brake

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Hub Dynamo

Series		SHIMANO	SHIMANO	SHIMANO ALIVIO	SHIMANO ALIVIO	SHIMANO	SHIMANO	
Model no.		DH-UR705-3D	DH-UR700-3D	DH-T4050-1D	DH-T4000-1N	DH-F703-S	DH-3D72	
Regulation	StVZO	✓	✓	✓	✓	✓	✓	
	TPGBi	-	-	-	-	-	✓	
	JIS	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	
Color	1	Hub shell	Silver	Silver	Silver	Silver	Silver	
		Quick release lever	-	Silver	Black	-	Black	Silver
	2	Hub shell	Black	Black	Black	Black	-	Black
		Quick release lever	-	Black	Black	-	Black	Black
Type		Disc brake	Disc brake	Disc brake	Regular	Regular	Disc brake	
CENTER LOCK mount type		✓	✓	✓	-	-	✓	
Voltage (V)		6	6	6	6	6	6	
Output (W)		3	3	1.5	1.5	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)	(646 - 716)	(448 - 716)	(448 - 716)	(400 - 536)	(646 - 716)	
Quick release type		-	✓	✓	✓	✓	✓	
Nut type		-	-	-	-	-	-	
E-THRU type		✓*	-	-	-	-	-	
O.L.D. (mm)		100	100	100	100	74	100	
Flange Distance (mm)		52	52	51	56.0	44.6	52.1	
Offset (mm)		3.5	3.5	1.9	0	0	3.8	
P.C.D. Left/Right (mm)		62	62	67	67	74	70	
Axle length (mm)		100	108	108	108	82	108	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	✓	-	
	28H	-	-	-	-	✓	-	
	32H	✓	✓	✓	✓	-	✓	
	36H	✓	✓	✓	✓	-	✓	
Seal		Single contact	Single contact	Single contact	Single contact	Single contact	Single contact	
Roller brake modulator grade	More than 26 inch	High	-	-	-	-	-	
		Standard	-	-	-	-	-	
20-24 inch		-	-	-	-	-	-	
Electric power output connector	J1 type	-	-	-	-	-	-	
	J2 type	-	-	-	-	-	-	
	E2 type	✓	✓	✓	✓	✓	✓	
	Others	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Painted	Painted	Painted	Anodized & Painted/ Anodized	
Quick release	Axle	Material	-	Aluminum	Steel	Steel	Steel	
		Finish	-	Chromated	Zinc plated	Zinc plated	Zinc plated	Zinc plated
	Quick release lever	Material	-	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
		Finish	-	Anodized	E-Coating	E-Coating	Anodized	Anodized
	Quick release housing	Material	-	Aluminum	Steel	Steel	Aluminum	Aluminum
		Finish	-	Anodized	E-Coating	E-Coating	Anodized	Anodized
	Quick release nut	Material	-	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
	Quick release Skewer Length (mm)	129	-	-	-	-	-	-
		133	-	✓	✓	✓	✓	✓
Average Weight		450 g	476 g (w/o QR)	565 g	580 g	590 g	559 g	
Note		* Recommended E-THRU axle: SM-AX720		* For LED light use only	* For LED light use only			

Hub Dynamo

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO ALFINE	
Model no.		DH-3D37-QR	DH-3D37-NT	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
	2	Hub shell	Black	Black	Black	Black	Black	Piano Black
		Quick release lever	-	-	-	-	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)	(400 - 716)	(400 - 716)	(400 - 716)	(400 - 716)	(646 - 716)	(646 - 716)	
Quick release type		✓	-	✓	-	✓	✓	
Nut type		-	✓	-	✓	-	-	
E-THRU type		-	-	-	-	-	-	
O.L.D. (mm)		100	100	100	100	100	100	
Flange Distance (mm)		51	51	51.1	51.1	60.0	52.1	
Offset (mm)		4	3.6	4	3.6	0	3.8	
P.C.D. Left/Right (mm)		74	74	74	74	70	70	
Axle length (mm)		108	140	108	140	108	108	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	-	-	-	
	32H	✓	✓	✓	✓	✓	✓	
	36H	✓	✓	✓	✓	✓	✓	
Seal		Single contact	Single contact	Single contact	Single contact	Single contact	Single contact	
Roller brake modulator grade	More than 26 inch	High	-	-	-	-	-	
		Standard	-	-	-	-	-	
20-24 inch		-	-	-	-	-	-	
Electric power output connector	J1 type	-	-	-	-	-	-	
	J2 type	-	-	-	-	-	-	
	E2 type	✓	✓	✓	✓	✓	✓	
	Others	-	-	-	-	-	-	
Hub shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted	Painted	Painted	Anodized & Painted	Anodized	
Quick release	Axle	Material	Steel	Steel	Steel	Steel	Steel	
		Finish	Zinc plated	Phosphate coated	Zinc plated	Phosphate coated	Zinc plated	Zinc plated
	Quick release lever	Material	Steel	-	Steel	-	Aluminum	Aluminum
		Finish	Nickel plated	-	Nickel plated	-	Anodized	Anodized
	Quick release housing	Material	Steel	-	Steel	-	Aluminum	Aluminum
		Finish	Nickel plated	-	Nickel plated	-	Anodized	Anodized
	Quick release nut	Material	Resin & Steel	-	Resin & Steel	-	Resin & Steel	Resin & Steel
		Finish	-	-	-	-	-	-
Quick release Skewer Length (mm)	129	-	-	-	-	-	-	
	133	✓	-	✓	-	✓	✓	
Average Weight		650 g	680 g	685 g	705 g	560 g	564 g	
Note								

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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)	
Quick release type		-	-	-	✓	-	✓	
Nut type		✓	✓	✓	-	✓	-	
E-THRU type		-	-	-	-	-	-	
O.L.D. (mm)		100	100	100	100	100	100	
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	
Axle length (mm)		140	140	140	108	140	108	
Spoke size		#14	#14	#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	-	-	
	28H	-	-	-	-	✓	-	
	32H	✓	✓	✓	✓	✓	✓	
	36H	✓	✓	✓	✓	✓	✓	
Seal		Single Contact	Single contact	Single contact	Single contact	Single contact	Single contact	
Roller brake modulator grade	More than 26 inch	High	✓	✓	✓	-	-	
		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	
Quick release	Axle	Material	Manganese Phosphate Coated	Steel	Steel	Steel	Steel	
		Finish	-	Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated	Phosphate coated
	Quick release lever	Material	-	-	-	Steel	-	Steel
		Finish	-	-	-	Nickel plated	-	Nickel plated
	Quick release housing	Material	-	-	-	Steel	-	Steel
		Finish	-	-	-	Nickel plated	-	Nickel plated
	Quick release nut	Material	-	-	-	Resin & Steel	-	Resin & Steel
		Finish	-	-	-	-	-	-
	Quick release Skewer Length (mm)	129	-	-	-	✓	-	✓
		133	-	-	-	✓	-	✓
Average Weight		960g	960 g	960 g	700 g	712 g	700 g	
Note				* For LED light use only				

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)	-	-	-	-	
Quick release type		-	-	-	-	✓	✓	
Nut type		✓	✓	✓	✓	-	-	
E-THRU type		-	-	-	-	-	-	
O.L.D. (mm)		100	100	93	93	100	100	
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	
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	✓	✓	✓	-	✓	✓	
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)	
Quick release	Axle	Material	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	-	-	-	-	-	-
Quick release Skewer Length (mm)	129	-	-	-	-	✓	✓	
	133	-	-	-	-	✓	✓	
Average Weight		705 g	600 g	491 g	491 g	474 g	474 g	
Note			* For LED light use only	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	

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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)	-	-	-	-	
Quick release type		-	-	-	-	
Nut type		✓	✓	✓	✓	
E-THRU type		-	-	-	-	
O.L.D. (mm)		93	93	100	100	
Flange Distance (mm)		60	60	60	60	
Offset (mm)		0	0	3	3	
P.C.D. Left/Right (mm)		69	69	69	69	
Axle length (mm)		155 / 150	150	140	140	
Spoke size		#13/#14	#14	#14	#14	
Spoke hole	24H	-	-	-	-	
	28H	-	✓	-	-	
	32H	-	-	-	-	
	36H	✓	-	✓	✓	
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	
Quick release	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	-	-	-	-
	Quick release Skewer Length (mm)	129	-	-	-	-
		133	-	-	-	-
Average Weight		630 g	630 g	630 g	630 g	
Note		* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	

Light

Series		SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	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	0.9 W	0.9 W	0.9 W	0.9 W	0.9 W
Main light		High Power LED	High Power LED	High Power LED	High Power LED	High Power LED	High Power LED
Brightness (At 5 m distance, JIS standard = 16 lx)		40 lx	40 lx	40 lx	40 lx	40 lx	40 lx
Lighting pattern		WIDE	Wide	Wide	Wide	Wide	Wide
Sub light		-	-	-	-	-	-
Stand light (LED flashing) function		-	-	-	-	-	-
Reflector integration		✓	✓	✓	✓	-	-
Electric power input	Tab-on type	-	-	-	-	-	-
	Connector type	J2-A	J2-A	J2-A	J2-A	J2-A	J2-A
Light body material		Resin	Resin	Resin	Resin	Resin	Resin
Color	1	CP	CP	CP	CP	Silver/Black/Black	CP/Silver/Black
	2	Silver (Painted)	Silver (Painted)	Silver (Painted)	Silver (Painted)	Black/Gray/Black	CP/Silver/White
	3	White	White	White	White	-	-
	4	Black	Black	Black	Black	-	-
	5	Gray	Gray	Gray	Gray	-	-
	6	-	-	-	-	-	-
Attachment position	Light stay	-	✓	-	✓	-	-
	Below basket	✓	-	✓	-	✓	-
	Fork center	-	-	-	-	-	✓
	Handle bar	-	-	-	-	-	-
	On mud guard	-	-	-	-	-	-
	Mud guard style stay	-	-	-	-	-	-
	Seat stay	-	-	-	-	-	-
Compatible seat stay diameter (mm)	13	-	-	-	-	-	-
	16	-	-	-	-	-	-
	19	-	-	-	-	-	-
Compatible handle bar diameter (mm)	22.2	-	-	-	-	-	-
	25.4	-	-	-	-	-	-
	31.8	-	-	-	-	-	-
Switch	Auto	-	-	-	-	-	-
	Manual (on)	-	-	-	-	-	-
	Manual (off)	-	-	-	-	-	-
	Permanent	✓	✓	✓	✓	✓	✓
Electric wire color	Black	-	-	-	-	-	✓
	Gray	✓	✓	✓	✓	✓	-
Electric wire length(mm)	Tab-on type	-	-	-	-	-	-
	Connector type	715	405	715	405	710	500
EZ cable clamp		-	-	-	-	-	-
Cord length adjuster		-	-	-	-	-	-
Compatible wheel size		-	-	-	-	-	-
Note		* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market

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Light

Series		SHIMANO	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS	SHIMANO NEXUS
Model no.		LP-C2250-H	LP-C2111-B	LP-C2111-S	LP-X100	LP-X101	LP-X101-H
Function name		HILMO	HILMO FLASH	HILMO FLASH	-	-	-
Auto light		-	-	-	✓	✓	✓
Type of light	Front	✓	✓	✓	✓	✓	✓
	Tail (Rear)	-	-	-	-	-	-
Hub dynamo output		0.9 W	6 V-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	High Power LED	High Power LED
Brightness (At 5 m distance, JIS standard = 16 lx)		40 lx	40 lx	40 lx	80 lx	80 lx	80 lx
Lighting pattern		Wide	Normal	Normal	Normal	Normal	Normal
Sub light		-	-	-	-	-	-
Stand light (LED flashing) function		-	✓	✓	-	-	-
Reflector integration		-	✓	✓	-	-	✓
Electric power input	Tab-on type	-	-	-	✓	✓	✓
	Connector type	J2-A	J2A	J2A	✓	✓	✓
Light body material		Resin	Resin	Resin	Resin	Resin	Resin
Color	1	Silver/Black	CP	CP	Silver (Painted)	Silver (Painted)	Silver (Painted)
	2	-	Silver (Painted)	Silver (Painted)	White (Painted)	White (Painted)	White (Painted)
	3	-	White	White	Black	Black	Black
	4	-	Black	Black	Gray	Gray	Gray
	5	-	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	-	-	-	675	400	410
	Connector type	800	715	405	125	120	160
EZ cable clamp		✓	-	-	-	-	-
Cord length adjuster		-	-	-	-	-	-
Compatible wheel size		-	-	-	-	-	-
Note		* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market	* Specification for Japan market

Light

Series		SHIMANO NEXUS
Model no.		LP-NX60-R
Function name		-
Auto light		-
Type of light	Front	✓
	Tail (Rear)	-
Hub dynamo output		6 V-2.4 W
Main light		Super Bright Red LED
Brightness (At 5 m distance, JIS standard = 16 lx)		-
Lighting pattern		-
Sub light		-
Stand light (LED flashing) function		✓ (if used with LP-X103)
Reflector integration		-
Electric power input	Tab-on type	-
	Connector type	✓
Light body material		Resin
Color	1	Silver (Painted)
	2	White (Painted)
	3	Black (Painted)
	4	-
	5	-
	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	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)	

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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	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5	M12 x 1.5
	Length (mm)	121	163	166	172	181	166
	Hollow axle	✓	✓	✓	✓	✓	✓
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Silver Anodized
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Painted (Black)
Housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Black Anodized	Painted (Black)
Fixing nut	Material	-	-	-	-	-	-
	Finish	-	-	-	-	-	-
Average Weight		65 g	74 g	75 g	76 g	79 g	79 g
Note							

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		AX-MT500-148x12	AX-MT500-157x12	SM-AX78	SM-AX78-B	SM-AX76	SM-AX76-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	M12 x 1.5
	Length (mm)	172	181	166	172	171	177
	Hollow axle	✓	✓	✓	✓	✓	✓
	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Silver Anodized	Silver Anodized	Black Anodized	Black Anodized	Black Anodized	Black Anodized
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted (Black)	Painted (Black)	Black Anodized	Black Anodized	Black Anodized	Black Anodized
Housing	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted (Black)	Painted (Black)	Black Anodized	Black Anodized	Black Anodized	Black Anodized
Fixing nut	Material	-	-	-	-	Aluminum	Aluminum
	Finish	-	-	-	-	Black Anodized	Black Anodized
Average Weight		80 g	83 g	77 g	78 g	69 g	71 g
Note							

E-THRU axle (AX)

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		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
	Length (mm)	166	172	171	177
	Hollow axle	✓	✓	✓	✓
	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Silver Anodized	Silver Anodized	Silver Anodized	Silver Anodized
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted (Black)	Painted (Black)	Painted (Black)	Painted (Black)
Housing	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black Anodized	Black Anodized	Painted (Black)	Painted (Black)
Fixing nut	Material	-	-	Aluminum	Aluminum
	Finish	-	-	Black Anodized	Black Anodized
Average Weight		81 g	82 g	75 g	77 g
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- SMCA
- RM
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- SMAX**
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Cycle Computer

Series	SHIMANO CI-DECK	
Model no.	SC-CI300	
Compatible system	Mechanical	
Attachement position	Handle Bar	
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-M530
Color 1	Black	Black	Series color	Series color	Silver	Black
Color 2	-	-	-	-	Black	White
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-PD60
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized (Silver) /Painted (Bronze)	Anodized (Black) /Painted (White)
Cage	Material	-	-	-	-	-
Average Weight (pair)	310 g (Short axle type) 314 g (Normal axle type)	398 g	342 g	438 g	352 g	455 g
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	SHIMANO	SAINT	SHIMANO DXR	SHIMANO	SHIMANO
Model no.	PD-M520	PD-M505	PD-M820	PD-MX70	PD-M647	PD-M424
Color 1	Silver	Silver	Black	Black	Black	Black
Color 2	Black	Black	-	-	-	-
Color 3	-	-	-	-	-	-
Type	Off-Road (SPD)	Off-Road (SPD)	Off-Road/DH (SPD)	Off-Road (SPD)	Off-Road/BMX (SPD)	Off-Road/BMX (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-PD22	SM-PD22	SM-PD60	SM-PD60	SM-PD60	SM-PD40
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Polished (Silver) /Painted (Black) /Painted (White)	Polished (Silver) /Painted (Black)	Painted	Anodized	Painted
Cage	Material	-	-	-	Resin	Resin
Average Weight (pair)	380 g	443 g	546 g (w/o pins & washers)	414 g	568 g	472 g
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	SHIMANO DEORE XT	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-M324	PD-T8000	PD-ES600	PD-EH500	PD-ED500
Color 1	Silver	Black	Dark Gray	Dark Gray	Dark Gray
Color 2	-	-	-	-	-
Color 3	-	-	-	-	-
Type	Multi-purpose (SPD/Flat)	Trekking (SPD/Flat)	Road (SPD)	Multi-purpose (SPD/Flat)	Road (SPD)
Binding	Single Sided	Single Sided	Single Sided	Single Sided	Dual Sided
Pedal axle material	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel	Chromoly Steel
Cartridge axle	-	✓	✓	✓	✓
Sealed mechanism	✓	✓	✓	✓	✓
Cleat retention adjuster	✓	✓	✓	✓	✓
Pop-up cage	-	-	-	-	-
Integrated cage	-	-	-	-	✓
Offset binding	-	-	-	-	-
Oval shape axle body housing	-	-	-	-	-
Cleat included	SM-SH56	SM-SH56	SM-SH51	SM-SH56	SM-SH56
Optional cleat	SM-SH51	SM-SH51	SM-SH56	SM-SH51	SM-SH51
Reflector	Y41B98010	Integrated	SM-PD62	SM-PD68	SM-PD60
Pedal body	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Painted	Painted (Dark Gray)
Cage	Material	Steel	-	-	-
Average Weight (pair)	533 g	392 g	279 g	383 g	442 g
Note			1.0 mm cleat spacer included	Light action	Light action



Pedal (CLICK'R)

Series	SHIMANO	SHIMANO	SHIMANO
Model no.	PD-T400	PD-T421	PD-MT50
Color 1	Black	Black	Black
Color 2	White	-	-
Color 3	-	-	-
Type	Trekking (CLICK'R)	Trekking (CLICK'R)	Recreational use (CLICK'R)
Binding	Dual Sided	Single Sided	Dual Sided
Pedal axle material	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-SH56	SM-SH56
Optional cleat	SM-SH51	SM-SH51	SM-SH51
Reflector	Integrated	Integrated	SM-PD60
Pedal body	Material	Aluminum	Aluminum
	Finish	Painted	Painted
Cage	Material	Resin	Resin
Average Weight (pair)	507 g	418 g	498 g
Note			

Pedal (Flat Pedal)

Series	SAINT	SHIMANO DEORE XT	SHIMANO
Model no.	PD-M828	PD-M8140	PD-GR500
Color 1	Black	Black	Black
Color 2	-	-	Silver
Color 3	-	-	-
Type	Off-Road (Flat Pedal)	Off-Road (Flat Pedal)	Off-Road (Flat Pedal)
Binding	-	-	-
Pedal axle material	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
Pedal body	Material	Aluminum	Aluminum
	Finish	Anodized	Painted
Cage	Material	-	-
Average Weight (pair)	553 g	461 g (SM) 505 g (ML)	533 g
Note	12 pins per platform	10 pins per platform 2 platform size available (SM/ML)	9 pins per platform

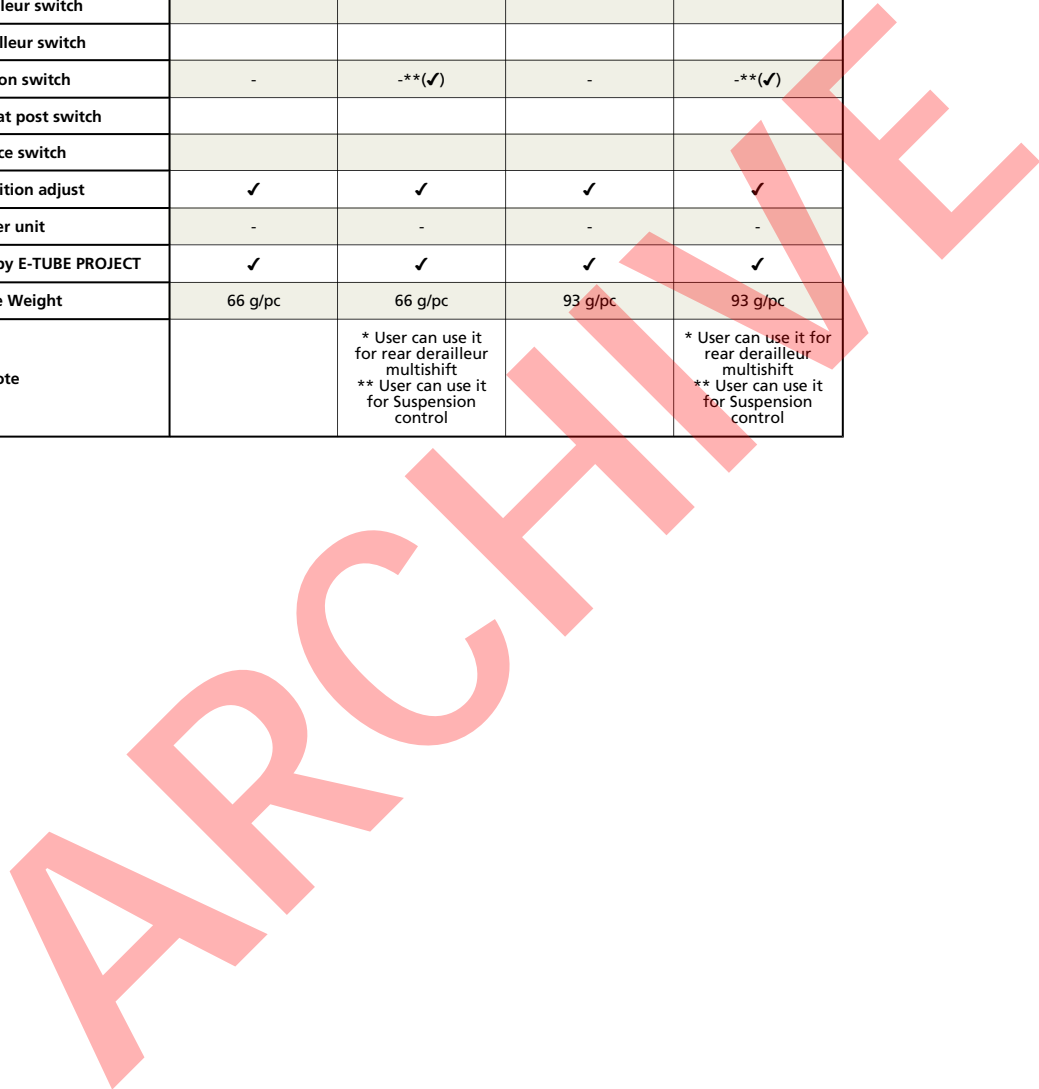
Pedal (SPD-SL)

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-PD58
Pedal body	Material	Carbon	Carbon	Carbon	Resin
	Finish	-	-	-	Painted
Body cover material	Special Stainless	Special Stainless	Stainless	Stainless	Stainless
Wide platform	✓	✓	✓	✓	-
Road clearance (deg.)	35	33	31	32	30
Average Weight (pair)	228 g	248 g	265 g	310 g	320 g
Note	4 mm longer axle available, Hollow cleat bolts	4 mm longer axle available	-	Wider spring tension range	-

		Page	
<MTB>	Shifting Switch	230	SW
	Rear Derailleur	231	RD
	Front Derailleur	232	FD
	Mount Adapter for Front Derailleur	233	SMAD
	System Information Display	234	SC
<GRAVEL/ ADVENTURE>	Shifting/Brake Lever (Hydraulic disc brake)	235	SL
	Rear Derailleur	236	RD
	Front Derailleur	236	FD
<ROAD>	Shifting/Brake Lever	237	ST
	Shifting/Brake Lever (Hydraulic disc brake)	238	ST
	Shifting Switch	239	SW
	Rear Derailleur	240	RD
	Front Derailleur	241	FD
	Front Derailleur (Adapter)	241	SMAD
	Internal Geared Hub	242	SG
<URBAN>	Motor Unit	244	MU
	Shifting Switch	244	SS
	Electric Wire	245	EW
<GENERAL>	Cord Cover	245	EWC
	Grommet	245	GM
	Wireless Unit	245	WU
	Junction [A]	246	JC
	Junction [B]	246	JC
	Battery	247	BT
	Battery Mount	247	BM
	Battery Case	247	SMBT
	Battery Charger	248	SMBC
	Charger Cord	248	BCC
	PC Linkage Device	248	SMPCE

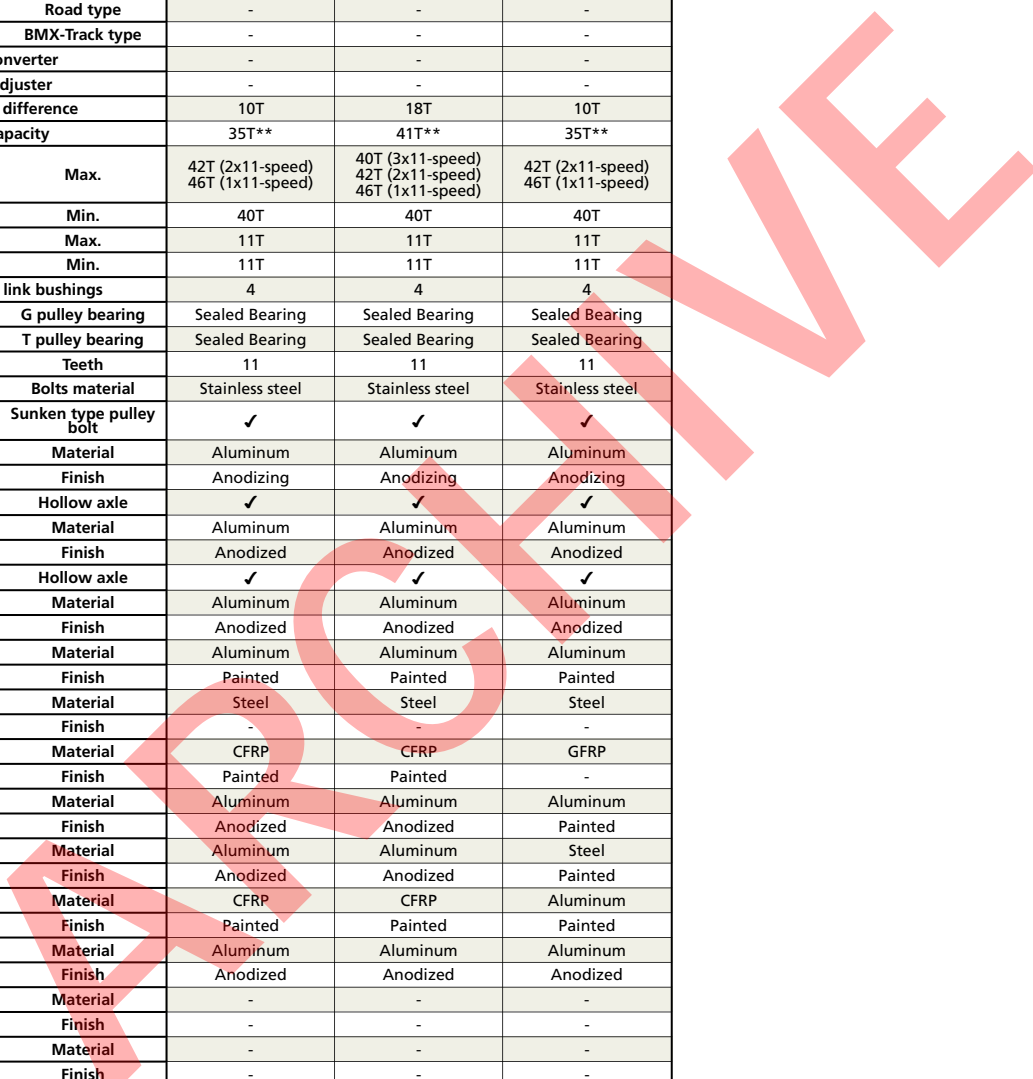
Shifting Switch

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 EW		EW-SD50	EW-SD50	EW-SD50	EW-SD50
Switch QTY		2	2	2	2
E-TUBE connector (QTY)		0	0	0	0
E-TUBE port (QTY)		1	1	1	1
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		66 g/pc	66 g/pc	93 g/pc	93 g/pc
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
Fluoroc 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
Bracket	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodizing	Anodizing	Anodizing
B-axle	Hollow axle	✓	✓	✓
	Material	Aluminum	Aluminum	Aluminum
B-axle 2	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Bracket body	Material	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted
P-axle	Material	Steel	Steel	Steel
	Finish	-	-	-
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	-	-	-
E-TUBE port (QTY)		1	1	1
Average Weight		290 g	295 g	319 g
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
- SS
- EW
- EWC
- GM
- WU
- JC
- JC
- BT
- BM
- SMBT
- SMBC
- BCC
- SMPCE

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	28.6 mm	w/ SM-FD905-L, SM-FD905-H	w/ SM-FD905-L, SM-FD905-H	w/ SM-AD905-L, SM-AD905-H
		31.8 mm	w/ SM-FD905-L, SM-FD905-H	w/ SM-FD905-L, SM-FD905-H	w/ SM-AD905-L, SM-AD905-H
		34.9 mm	w/ SM-FD905-L, SM-FD905-H	w/ SM-FD905-L, SM-FD905-H	w/ SM-AD905-L, SM-AD905-H
	With bottom bracket plate	-	-	-	
	Without bottom bracket plate	w/ SM-FD905-E	w/ SM-FD905-E*	w/ SM-AD905-E**	
	Direct mount	w/ SM-FD905-D	w/ SM-FD905-D*	w/ SM-AD905-D**	
	ISCG05 mount				
Cable route type	Dual-Pull				
	Top-Pull exclusive				
	Down-Pull exclusive				
	Front-Pull				
Chainline (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		✓	✓	✓	
E-TUBE port (pcs)		1	1	1	
E-TUBE connector (pcs)		-	-	-	
Average Weight (pc) (Band type: L size, direct type w/ bolt)		125 g	112 g	134 g	
Note			* Compatible with the special crankset which chainline is 3 mm outboard.	* For FC 3 mm outboard spec, 51.8 mm ** Compatible with the special crankset which chainline 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	28.6 mm	-	-	*✓	*✓
	31.8 mm	-	-	*✓	*✓
	34.9 mm	-	-	✓	✓
Direct mount bracket	Material	Aluminum	Aluminum	-	-
	Finish	Painted	Painted	-	-
Crankset Top gear teeth		40T-34T	40T-34T	40T-34T	40T-34T
Average Weight		21.1 g	27.1 g	33 g	42.1 g
Note		Compatible with the special crankset which chainline is 3 mm outboard.	Compatible with the special crankset which chainline 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

SS

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

SMPCE

System Information Display

Series		SHIMANO	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		✓	✓
E-TUBE port (QTY)		3	3
Average Weight		30 g	30 g
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	TBD	TBD	
	Finish	-	-	
E-TUBE connector (pcs)		0	0	
E-TUBE port (pcs)		2	2	
Port for remote sprinter shifter (pcs)		0	0	
Average Weight		373 g/pair	373 g/pair	
Note				



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

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		✓	✓
E-TUBE port (pcs)		1	1
E-TUBE connector (pcs)		0	0
Average Weight		287 g	318 g
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 Band1	-
	Clamp Band2	-
	Clamp Band3	-
	Brazed-On	✓
Chain line (mm)		46
Chain stay angle (deg.)		61-66
Top gear teeth		46-50T
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		✓
E-TUBE port (pcs)		1
E-TUBE connector (pcs)		0
Average Weight (pc) (Band type: L size, direct type w/ bolt)		135 g
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	Aluminum
	Finish	Painted	Painted	Painted	Painted	Anodized	Anodized
Master unit		-	-	-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
E-TUBE port (pcs)		2	2	1	1	2	2
E-TUBE connector (pcs)		0	0	0	0	0	0
Port for remote sprinter shifter (pcs)		1	1	0	0	1	1
Average Weight		230 g/pair	230 g/pair	127 g/pair	127 g/pair	295 g/pair	295 g/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		✓	✓	✓	✓
E-TUBE port (pcs)		1	1	4	0
E-TUBE connector (pcs)		0	0	0	2
Port for remote sprinter shifter (pcs)		0	0	2	0
Average Weight		138 g/pair	138 g/pair	303.2 g/pair	148 g/pair
Note		-	-	-	-

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

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	-	-	-	-	-	-	
E-TUBE connector (pcs)		0	0	0	0	0	0	
E-TUBE port (pcs)		2	2	1	1	2	2	
Port for remote sprinter shifter (pcs)		0	0	0	0	0	0	
Average Weight		160 g	160 g	99 g	99 g	180 g	180 g	
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	✓	✓	✓	-	✓
E-TUBE port (pcs)	0	2	0	0	0
E-TUBE connector (pcs)	2	0	2	0	1
Connector for remote sprinter shifter (pcs)	0	0	0	2	0
Port for remote sprinter shifter (pcs)	0	0	0	0	0
Average Weight	12 g/pair	40 g/pair	100 g/pair	5.8 g/pair	19 g/pc
Note					

ARCHIVE

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

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		✓	✓	✓	✓	✓	✓
E-TUBE port (pcs)		1	1	1	1	1	1
E-TUBE connector (pcs)		0	0	0	0	0	0
Average Weight		197 g	240 g	247 g	257 g	268 g	280 g
Note		w/o Bracket spec. available	* w/o Bracket spec. available	* w/o Bracket spec. available			* w/o Bracket spec. available

Front Derailleur

Series		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 1	-	-	-
	Clamp Band 2	-	-	-
	Clamp Band 3	-	-	-
	Brazed-On	✓	✓	✓
Chainline (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		✓	✓	✓
E-TUBE port (pcs)		1	1	1
E-TUBE connector (pcs)		0	0	0
Average Weight (pc) (Band type: L size, direct type w/ bolt)		104 g	132 g	138.5 g
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 diameter	28.6 mm	-	✓*
	31.8 mm	-	✓
	34.9 mm	✓	-
Note			* w/ Multi Clamp Band

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

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		1,665 g	1,670 g	1,685 g	1,660 g	2,040 g	1,680 g
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		2,080 g	1,670 g	1,670 g	1,970 g	1,670 g
Note						

SW

RD

FD

SMAD

SC

SL

RD

FD

ST

ST

SW

RD

FD

SMAD

SG

MU

SS

EW

EWC

GM

WU

JC

JC

BT

BM

SMBT

SMBC

BCC

SMPCE

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		✓
E-TUBE port (pcs)		1
E-TUBE connector (pcs)		0
Note		-

Shifting Switch

Series		SHIMANO ALFINE
Model no.		SW-S705
Lever type		Shifting switch
Right switch		✓
Left switch		-
Manual shifting switch		✓
Display mode change		-
Shift mode (Auto/Manual) change		-
Auto mode select switch		-
SC integration		-
Electric power connector		E-TUBE
Compatible internal geared hub		SG-S7051 SG-C6060 SG-C6061
Compatible brake lever		BL-S700
Average Weight		44 g
Note		-

Electric Wire

Series	SHIMANO	SHIMANO
Model no.	EW-SD50	EW-SD50-I
Type	For external routing	For built-in routing
Compatible system	E-TUBE system	E-TUBE system
E-TUBE port (QTY)	0	0
E-TUBE connector (QTY)	2	2
Note	Cable length: 150 - 1,600 mm* * 1,600 mm is for E-BIKE usage only	Cable length: 150 - 1,600 mm* * 1,600 mm is for E-BIKE usage only

Cord Cover

Series	SHIMANO
Model no.	SM-EWC2
Specification	Long/Short
Color 1	Black
Color 2	White
Compatible electric wire	EW-SD50
Note	

Grommet

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

Wireless Unit

Series	SHIMANO	SHIMANO	
Model no.	EW-WU111	EW-WU101	
Wireless system	ANT private* Bluetooth®LE	ANT private* Bluetooth®LE	
Master unit	-	-	
Firmware update by E-TUBE PROJECT	✓	✓	
E-TUBE port (pcs)	2	2	
E-TUBE connector (pcs)	0	0	
Compatible system	Bluetooth®LE corresponding master unit	Bluetooth®LE corresponding master unit	
Function**	Gear position	✓	✓
	D12 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	* ANT private has compatibility with ANT+ cycle computer but not freely open profile ** Display function depends on the specification of cycle computer	

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

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	✓	✓	✓
E-TUBE port (QTY)	2	3	5
E-TUBE connector (QTY)	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	11 g	10 g	13 g
Note			

Junction [B]

Series	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.	EW-JC200	EW-JC130-SS	EW-JC130-SM	EW-JC130-MM	SM-JC41	SM-JC40
Type	2 ports junction	Y-split routing-SS	Y-split routing-SM	Y-split routing-MM	Junction [B]	Junction [B]
Master unit	-	-	-	-	-	-
Firmware update by E-TUBE PROJECT	-	-	-	-	-	-
E-TUBE port (pcs)	2	0	0	0	4	4
E-TUBE connector (pcs)	0	3	3	3	0	0
Average Weight	-	-	-	-	4.1 g	8.6 g
Note		Cable length 250 mm 350 mm 50 mm	Cable length 450 mm 350 mm 50 mm	Cable length 550 mm 550 mm 50 mm	For built-in type	For external spec (fixed on frame with screw)

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	✓	✓	-
E-TUBE port (pcs)	1	1	-
E-TUBE connector (pcs)	0	0	0
Average Weight	50 g	50 g	70 g
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	✓	✓	✓
E-TUBE port (pcs)	1	1	1
E-TUBE 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	E-TUBE port (pcs)	6*
	E-TUBE connector (pcs)	0*
	Compatible battery	BT-DN110 BT-DN110-A
	Compatible EW	EW-SD50
	Battery charging port	-
Note	* w/ Junction spec include one special cable for connecting battery and junction	

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

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						

PC Linkage Device

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

	<i>Page</i>	
Cycle Computer	250	SC
Switch Unit	251	SW
Drive Unit	252	DU
Drive Unit Cover	254	SMDU
Speed Sensor Unit	254	SMDU
Disc Brake Rotor	255	RT
Crankarm	256	FC
Chainring	257	SMCR
Chain Device	259	SMCD
Battery	260	BT
Battery Mount	262	BM
Satellite System ON/OFF Switch	263	EWSW
Satellite Charging Port	263	EWCP
Battery Charger	264	EC
DI2 Adapter	267	EWEX
Chain Case Fixing Bolt	267	SMDU

Cycle Computer

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SC-E8000	SC-E7000	SC-E6100	SC-E6010	SC-E6000	EW-EN100
Color	1	Standard	Standard	Standard	Black	Gray	Standard
	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		✓	✓	✓	✓	✓	✓
E-TUBE port (pcs)		4	4	3	3	3	2
E-TUBE connector (pcs)		0	0	0	0	0	0
Back Light		✓	✓	✓	✓	✓	-
LCD size (inch)		1.6	1.39	2.7	2.7	1.85	-
Beep		✓	✓	✓	✓	✓	-
Display Detachable		-	-	✓	✓	✓	-
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	✓	✓	✓	✓	* ✓ (8/11-speed)	* ✓ (8/11-speed)
	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)	✓	** ✓	** ✓	** ✓	-	-
	Shifting advice	-	-	-	-	-	-
	Maintenance alert	-	✓	✓	-	-	-
Bluetooth®LE connection status	-	✓	✓	-	-	-	
Setting menu	Trip Distance reset	✓	✓	✓	✓	✓	-
	Odometer reset	-	-	-	-	-	-
	Setting clear	-	-	✓	✓	✓	-
	Clock adjustment	✓	✓	✓	✓	✓	-
	Start mode	-	✓	✓	✓	✓	-
	Shifting advise	-	-	✓	✓	✓	-
	Back light on/off	-	-	✓	✓	✓	-
	Light on/off	✓	✓	-	-	-	-
	Back light brightness	✓	-	✓	✓	-	-
	Beep on/off	✓	✓	✓	✓	✓	-
	Unit (km/mile)	✓	✓	✓	✓	✓	-
	Font color	-	✓	✓	✓	-	-
	Adjusting for shift	* ✓	* ✓	* ✓	* ✓	* ✓	* ✓
	Adjusting for auto shift timing	-	* ✓	* ✓	* ✓	* ✓	-
	RD Protection Reset	* ✓	* ✓	* ✓	* ✓	-	* ✓
	Bluetooth®LE pairing	✓	✓	✓	-	-	✓
Bluetooth®LE/ANT connection status	✓	-	-	-	-	-	
Language	English	✓	✓	✓	✓	✓	-
	German	✓	✓	✓	✓	✓	-
	Dutch	✓	✓	✓	✓	✓	-
	French	✓	✓	✓	✓	✓	-
	Spanish	✓	✓	✓	✓	✓	-
	Italian	✓	✓	✓	✓	✓	-
Average Weight		40.2 g	32.0 g	110 g	110.6 g	102.6 g	5.7 g
Note		2 Spec of clamp band diameter: ø31.8 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	* In case of SEIS ** Option by E-TUBE PROJECT *** In case of using with DU-E8000	* In case of SEIS ** Option by E-TUBE PROJECT	* Set by switch operation in case of SEIS

Switch Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SW-E8000-L	SW-E7000-L	SW-E7000-R	SW-E6010-L	SW-E6010-R	SW-E6000
Switch Type		FIREBOLT	-	-	-	-	-
Color	1	Standard	Standard	Standard	Standard	Standard	Gray
	2	-	-	-	-	-	Black
	3	-	-	-	-	-	-
Usage		For assist	For assist	For SEIS shift	For assist	For SEIS shift	* For assist or SEIS shift
Right SW		-	-	✓	-	✓	✓
Left SW		✓	✓	-	✓	-	✓
Button numbers (pcs)		2	2	2	3	3	3
Master unit		-	-	-	-	-	-
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓	✓	✓
E-TUBE port (pcs)		1	0	0	0	0	0
E-TUBE connector (pcs)		0	1	1	1	1	1
System On-Off		-	-	-	-	-	-
Assist Mode Change		✓	✓	-	✓	-	✓
Display change		-	-	-	✓	✓	* ✓
Automatic/Manual Change		-	-	✓	✓	✓	* ✓
Light On-Off		* -	* -	-	* -	-	* ✓
Multiple input	2 step	-	-	-	-	-	-
	Hold	-	* ✓	** ✓	-	** ✓	-
Average Weight		93.2 g	** 23.9 g	** 23.9 g	31.3 g	31.3 g	25.5 g
Note		* 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	* Set by E-TUBE PROJECT

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-E8000	DU-E8080	DU-E7000	DU-E6100	DU-E6110	DU-E6180
Color	1	Black	Black	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Compatible Brake type		Disc brake, V-BRAKE	Disc brake	Disc brake, V-BRAKE	V-BRAKE, Roller brake, Disc brake	Coaster brake	V-BRAKE, Roller brake, Disc brake
Motor type		Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Position		Mid ship	Mid ship	Mid ship	Mid ship	Mid ship	Mid ship
Compatible Wheel Size (mm)		*1,300 - 3,000	*1,300 - 3,000	1,300 - 3,000	1,300 - 3,000	1,300 - 3,000	1,300 - 3,000
Maximum Rated Power (Watt)		250	250	250	250	250	250
Maximum torque (Nm)		70	70	60	60	60	60
Rated Voltage		DC 36 V	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	*✓	-	*✓	-	-	-
	Explorer	*✓	-	*✓	-	-	-
	Customize	*✓	-	*✓	-	-	-
	Sportive/Light off-road	-	-	-	*✓	*✓	*✓
Assist mode	Comfort	-	✓	-	*✓	*✓	*✓
	BOOST	✓	-	✓	-	-	-
	HIGH	-	✓	-	✓	✓	✓
	TRAIL	✓	-	✓	-	-	-
	NORMAL	-	✓	-	✓	✓	✓
Assist mode	ECO	✓	✓	✓	✓	✓	✓
	Power supply for front light	DC 6 V	DC 6 V	DC 12 V	DC 12 V	DC 12 V	DC 12 V
	Power supply for rear light	DC 6 V	DC 6 V	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	2	2
	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		✓	✓	✓	✓	✓	✓
E-TUBE port (pcs)		2	2	2	2	2	2
E-TUBE connector (pcs)		0	0	0	0	0	0
Port for Light (pcs)		0	0	0	0	0	0
Terminal for Light (pcs)		1	1	1	1	1	1
Port for Speed Sensor (pcs)		1	1	1	1	1	1
Chain case compatible		-	-	-	✓	✓	✓
Chain device compatible		✓	✓	✓	-	-	-
Torque sensor		✓	✓	✓	✓	✓	✓
Crank arm position sensor		✓	✓	✓	✓	✓	✓
Bike speed sensor		**✓	**✓	**✓	**✓	**✓	**✓
Cadence sensor		✓	✓	✓	✓	✓	✓
Walk assist function	On/Off	✓	-	*✓	*✓	*✓	-
	Standard	✓	-	-	-	-	-
	Intelligent	***✓	-	**✓	***✓	***✓	-
	Quick	✓	-	✓	✓	✓	-
Automatic shift	Internal geared hub 11-speed	-	-	-	-	-	-
	Internal geared hub 8-speed	-	-	-	✓	✓	✓
	Internal geared hub 7-speed	-	-	-	-	-	-
	Internal geared hub 5-speed (INTER-5E)	-	-	-	✓	✓	✓
	Rear derailleur	-	-	-	-	-	-
SYMPHOMATIC	Internal geared hub	-	-	-	✓	✓	✓
	Rear derailleur	-	-	-	-	-	-
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)		-	-	-	-	-	-
Average Weight		2.88 kg	2.89 kg	2.88 kg	2.76 kg	2.7 kg	2.81 kg
Note		* 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	* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11

Drive Unit

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		DU-E6002	DU-E6012	DU-E5000	DU-E5080
Color	1	Black	Black	Standard	Standard
	2	Gray	-	-	-
	3	-	-	-	-
Compatible Brake type		V-BRAKE, Roller brake, Disc brake	Coaster brake	V-BRAKE, Roller brake, Disc brake, Coaster brake	V-BRAKE, Roller brake, Disc 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 - 2,400	*1,300 - 2,400	1,300 - 3,000	1,300 - 3,000
Maximum Rated Power (Watt)		250	250	250	250
Maximum torque (Nm)		50	50	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	-	-	-	-
	Explorer	-	-	-	-
	Customize	-	-	-	-
	Sportive/Light off-road	*✓	*✓	-	-
	Comfort	*✓	*✓	✓	✓
Assist mode	BOOST	-	-	-	-
	HIGH	✓	✓	✓	✓
	TRAIL	-	-	-	-
	NORMAL	✓	✓	✓	✓
	ECO	✓	✓	✓	✓
Power supply for front light		DC 6 V	DC 6 V	DC 12 V	DC 12 V
Power supply for rear light		DC 6 V	DC 6 V	DC 12 V	DC 12 V
Maximum current supply front and rear light total (A)		2	2	2	2
Safe way home function		✓	✓	✓	✓
Communication		E-TUBE	E-TUBE	E-TUBE	E-TUBE
Master unit		✓	✓	✓	✓
Firmware update by E-TUBE PROJECT		✓	✓	✓	✓
E-TUBE port (pcs)		2	2	1	1
E-TUBE connector (pcs)		0	0	0	0
Port for Light (pcs)		0	0	0	0
Terminal for Light (pcs)		1	1	1	1
Port for Speed Sensor (pcs)		1	1	1	1
Chain case compatible		✓	✓	✓	✓
Chain device compatible		-	-	-	-
Torque sensor		✓	✓	✓	✓
Crank arm position sensor		✓	✓	-	-
Bike speed sensor		**✓	**✓	**✓	**✓
Cadence sensor		✓	✓	-	-
Walk assist function	On/Off	*✓	*✓	*✓	-
	Standard	✓	✓	-	-
	Intelligent	-	-	***✓	-
	Quick	✓	✓	✓	-
Automatic shift	Internal geared hub 11-speed	-	-	-	-
	Internal geared hub 8-speed	✓	✓	✓	✓
	Internal geared hub 7-speed	-	-	-	-
	Internal geared hub 5-speed (INTER-5E)	-	-	✓	✓
	Rear derailleur	-	-	-	-
SYMPHOMATIC	Internal geared hub	✓	✓	✓	✓
	Rear derailleur	-	-	-	-
Electronic shift by drive unit control		-	-	✓	✓
Compatible bottom bracket type		Square type	Square type	Square type	Square type
Drive unit fixing bolt (pcs)		-	-	-	-
Average Weight		3.1 kg	3.05 kg	2.38 kg	2.38 kg
Note		* Set by E-TUBE PROJECT ** By using SM-DUE10/SM-DUE11	* Set by E-TUBE PROJECT ** By using SM-DUE10	* 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

- 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.		SM-DUE80-A	SM-DUE80-B	SM-DUE70-A	SM-DUE70-B	SM-DUE70-C	SM-DUE61-T
Color	1	Gray	Gray	Standard	Standard	Standard	Standard
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-
Cover	Right	✓	✓	✓	✓	-	✓
	Left	✓	✓	✓	✓	✓	✓
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-DUE61-TC	SM-DUE61-C	SM-DUE61-CC	SM-DUE60	SM-DUE60-45	SM-DUE60-A
Color	1	Standard	Black	Black	Gray	Gray	Gray
	2	-	-	-	Black	Black	Black
	3	-	-	-	-	-	-
Cover	Right	✓	✓	✓	✓	✓	✓
	Left	✓	✓	✓	-	-	-
Available DU angle (deg.)		0 - 60	0 - 60	0 - 60	0	45	0
Note		-	-	-	-	-	For internal cable routing

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

Speed Sensor Unit

Series		SHIMANO	SHIMANO
Model no.		SM-DUE11	SM-DUE10
Brake Spec	Disc	✓	✓
	Rim	-	✓
Color	1	Standard	Standard
	2	-	-
	3	-	-
Cable Length(mm)	340	-	✓
	540	-	✓
	760	✓	✓
	1400	-	✓
Note		-	-

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 (w/o lock ring)		144 g (180 mm) 116 g (160 mm)	144 g (180 mm) 116 g (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	

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Crankarm

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		FC-E8050	FC-E8000	FC-E6100	FC-E6010	FC-E5000	FC-E5010
Color	1	Standard	Standard	Silver	Black	Silver	Standard
	2	-	-	Black	Gray	-	-
	3	-	-	-	-	-	-
Crankarm type	HOLLOWTECH	✓	-	-	-	-	-
	Solid	-	✓	✓	✓	✓	✓
Q factor (mm)		177 180 *	177 180 *	180	213	185	185
Chain case compatible		✓ *	✓ *	✓	✓	✓	✓
Crankarm length (mm)	175	✓	✓	✓	✓	✓	✓
	170	✓ *	✓	✓	✓	✓	✓
	165	-	✓	-	-	✓	✓
	Others	-	160 mm (NEW)	-	-	-	-
Crankarm	Material	Aluminum	Aluminum	Aluminium	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Anodized	Painted	Painted	Painted
BB Type		24 mm axle serration	24 mm axle serration	24 mm axle serration	Square type	Square type	Square type
Average Weight		-	-	-	-	-	-
Note		* In case with DU-E6100/E6110/E7000	* In case with DU-E6100/E6110/E7000	-	-	-	-

Series		DEORE XT
Model no.		FC-M8050
Color	1	Series color
	2	-
	3	-
Crankarm type	HOLLOWTECH	✓
	Solid	-
Q factor (mm)		177 180 *
Chain case compatible		✓ *
Crankarm length (mm)	175	✓
	170	✓
	165	✓
	Others	-
Crankarm	Material	Aluminum
	Finish	Anodized
BB Type		24 mm axle serration
Average Weight		-
Note		* In case with DU-E6100/E6110/E7000

Chainring

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-CRE80-12-B	SM-CRE80-B	SM-CRE80	SM-CRE80-R	SM-CRE70-12-B	SM-CRE70-12
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	✓ (NEW)	✓	✓	-	-	-
	36T	✓ (NEW)	-	-	-	✓	-
	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		-	-	-	-	-	-
Chainline (mm)	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	Painted	Painted
Spider arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted	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
Gear arms		4 arm	4 arm	4 arm	4 arm	4 arm	4 arm
Average Weight		-	-	-	-	-	-
Note		Compatible chain CN-M9100 CN-M8100 CN-M7100	* E-BIKE rear derailleur system compatible chain	* E-BIKE rear derailleur system compatible chain ** 44T only	Compatible Chain CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11 CN-E6090-10	Compatible chain CN-M9100 CN-M8100 CN-M7100	Compatible chain CN-M9100 CN-M8100 CN-M7100

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Chainring

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		SM-CRE70-B	SM-CRE70	SM-CRE61	SM-CRE60	SM-CRE50
Color	1	Black	Black	Dark Gray	Black / Silver	Dark Gray
	2	-	-	Silver (w/o CG only) *	Black / Gray	-
	3	-	-	Black (w/o CG only) *	Black / Gray (double, single chain guard type 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)	95.5 (w/o CG only)	95 (w/o CG only)
Chain device compatible		✓	*✓	-	-	-
Chain case compatible		-	-	✓	✓ (single, w/o CG only)	✓
Chainline (mm)	53	✓	-	-	-	-
	50	-	✓	-	-	-
	48	-	-	-	-	-
	46.5	-	-	✓	✓	✓
Belt line (mm)		43	-	-	-	-
P.C.D. (mm)		104	104	-	-	-
Chainring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
Spider arm	Material	Steel	Aluminum	-	-	-
	Finish	Painted	Anodized	-	-	-
Chainring fixing bolt	Material	Stainless steel	Stainless steel	Stainless steel	-	Stainless steel
	Finish	SP Black	SP Black	-	-	-
Gear arms		4 arm	4 arm	4 arm	-	4 arm
Average Weight		-	-	-	-	-
Note		Compatible Chain CN-HG901-11 CN-HG701-11 CN-HG601-11 CN-E8000-11 CN-E8000-11 CN-E6090-10 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
Model no.		SM-CDE80	SM-CDE70
Color	1	Standard	Standard
	2	-	-
	3	-	-
Chainline (mm)	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	✓	✓
	34T	✓	✓
Assumed Rear Sprocket Teeth	11-36T	✓	✓
	11-40T	✓	✓
	11-42T	✓	✓
	11-46T	✓	✓
Direct Mount to Drive Unit		✓ (w/ Plate type) - (w/o Plate type)	✓
Compatible Drive Unit		DU-E8000	DU-E7000 DU-E8000
Rear suspension stroke (mm)		0 - 170	0 - 170
Back plate	Material	Aluminum (w/ Plate type) - (w/o Plate type)	Steel
	Finish	Anodized (w/ Plate type) - (w/o Plate type)	Painted
Chain guide	Material	Resin	Resin
	Finish	-	-
Note		w/ Plate, w/o Plate type are available	w/ plate

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Battery

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BT-E8010	BT-E8014	BT-E8020	BT-E8035	BT-E6000	BT-E6001
Color	1	Black	Standard	Black	Standard	Black	Black
	2	-	-	-	-	Gray	Gray
	3	-	-	-	-	-	-
Chemistry		Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Position		Down tube	Down tube	Integrated	Integrated	Rear carrier	Rear carrier
Rated voltage (V)		36	36	36	36	36	36
Rated capacity (Ah)		14	** 11.6	14	*** 14	11.6	14
Rated capacity (Wh)		504	418	504	504	418	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	* 5	* 5	* 4	* 5
	SOC = 80%	* 2.5	* 2	* 2.5	* 2.5	* 2	* 2.5
	SOC = 50%	* 2	* 1.5	* 2	* 2	* 1.5	* 2
Charge level display		✓	✓	✓	✓	✓	✓
Error signal		✓	✓	✓	✓	✓	✓
Charging port		✓	✓	✓	** -	-	-
Tail light/Reflector integration		-	-	-	-	-	-
System on/off switch		✓	✓	✓	✓	✓	✓
Compatible battery mount		BM-E8010	BM-E8010	BM-E8020	BM-E8030-A BM-E8030-B BM-E8031-A BM-E8031-B	BM-E6000	BM-E6000
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-E6002 EC-E8004	EC-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004	EC-E6000 EC-E6002 EC-E8004	EC-E6000 EC-E6002 EC-E8004
Compatible adaptor for charge		-	-	-	SM-BTE80	SM-BTE60	SM-BTE60
Average Weight		2.6 kg	2.55 kg	3.05 kg	2.9 kg	2.58 kg	2.65 kg
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	* By EC-E6000 EC-E6000-3 for Japan ** with SM-BTE80 or EW-CP100 *** BT-E8035 for Japan (13 Ah, 468 Wh)	*By EC-E6000	*By EC-E6000

Battery

Series		SHIMANO
Model no.		BT-E6010
Color	1	Black
	2	Gray
	3	-
Chemistry		Li-Ion
Position		Down tube
Rated voltage (V)		36
Rated capacity (Ah)		11.6
Rated capacity (Wh)		418
Cyclife span for charge (times)		1,000 (more than 60%)
Time to charge (hour)	SOC = 100%	* 4
	SOC = 80%	* 2
	SOC = 50%	* 1.5
Charge level display		✓
Error signal		✓
Charging port		-
Tail light/Reflector integration		-
System on/off switch		✓
Compatible battery mount		BM-E6010
Compatible charger		EC-E6000 EC-E6000-3 (for Japan) EC-E6002 EC-E8004
Compatible adaptor for charge		SM-BTE60
Average Weight		2.65 kg
Note		*By EC-E6000 EC-E6000-3 for Japan BT-E6010 for Japan (10.9 Ah, 393 Wh, Black only)

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Battery Mount

Series		SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO	SHIMANO
Model no.		BM-E8010	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	Integrated	Integrated	Integrated	Integrated	Integrated
Charging port		-	-	-	-	-	-
Key hole		✓	✓	✓	✓	-	-
Connect to EW-CP100		-	-	✓	-	✓	-
System on/off switch		-	-	-	-	-	-
Power cord		✓	✓	✓	✓	✓	✓
Power cord length (mm)	250	✓	✓	✓	✓	✓	✓
	300	✓	-	-	-	-	-
	400	-	✓	✓	✓	✓	✓
	600	✓	-	-	-	-	-
	900	-	-	-	-	-	-
	920	-	-	-	-	-	-
	1,000	-	-	-	-	-	-
	1,020	-	-	-	-	-	-
Cable length to EW-CP100 (mm)		-	-	200	-	200	-
Compatible battery		BT-E8010	BT-E8020	BT-E8035	BT-E8035	BT-E8035	BT-E8035
Compatible tool		TL-BME02	TL-BME03	TL-BME04	TL-BME04	TL-BME04	TL-BME04
Average Weight		-	-	* 0.31 kg (Power cord: 250 mm) * 0.32 kg (Power cord: 400 mm)	* 0.29 kg (Power cord: 250 mm) * 0.30 kg (Power cord: 400 mm)	0.33 kg (Power cord: 250 mm) 0.34 kg (Power cord: 400 mm)	0.31 kg (Power cord: 250 mm) 0.32 kg (Power cord: 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		* ✓	* ✓	* ✓
Key hole		✓	✓	✓
Connect to EW-CP100		-	-	-
System on/off switch		-	-	-
Power cord		✓	✓	✓
Power cord length (mm)	250	-	-	✓
	300	-	-	✓
	400	-	-	-
	600	-	-	✓
	900	-	-	-
	920	✓	✓	-
	1,000	-	-	-
	1,020	✓	✓	-
Cable length to EW-CP100 (mm)		-	-	-
Compatible battery		BT-E6000 BT-E6001	BT-E6000 BT-E6001	BT-E6010
Compatible tool		-	-	TL-BME01
Average Weight		-	-	-
Note		*By EC-E6000	*By EC-E6000	*By EC-E6000

Satellite System ON/OFF Switch

Series	SHIMANO
Model no.	EW-SW100
Position	Integrated
Master unit	-
Switch QTY (pcs)	1
E-TUBE port (pcs)	0
E-TUBE connector (pcs)	1
Firmware update by E-TUBE PROJECT	✓
E-tube cable length (mm)	1100
Average Weight	
Note	

Satellite Charging Port

Series	SHIMANO
Model no.	EW-CP100
Position	Integrated
Compatible battery	BT-E8035
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	
Note	

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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
	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-E8020 BT-E8035	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8020 BT-E8035	BT-E6010 BT-E8010 BT-E8014 BT-E8035	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8020 BT-E8035	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8020 BT-E8035	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8020 BT-E8035
Compatible voltage	AC 100 V - 240 V, 50 - 60 Hz	AC 120 V, 50 - 60 Hz	AC 100 V, 50 - 60 Hz	AC 100 V - 240 V, 50 - 60 Hz	AC 100 V - 240 V, 50 - 60 Hz	AC 100 V - 240 V, 50 - 60 Hz
CE standard	✓	✓	✓	✓	✓	✓
UL standard	✓	✓	✓	✓	✓	✓
Korea standard	-	-	-	-	-	✓
Japan standard	-	-	✓	-	-	-
Time to full charge (hour)	* 3.5 / ** 4.5	* 3.5 / ** 4.5	* 3.5 / ** 4.5	* 3.5 / ** 4.5	* 3.5 / ** 4.5	* 3.5 / ** 4.5
Time to 80% charge (hour)	* 2.0 / ** 2.5	* 2.0 / ** 2.5	* 2.0 / ** 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						
Note	* In case of 418 Wh battery ** In case of 504 Wh battery *** Check latest line-up chart	* In case of 418 Wh battery ** In case of 504 Wh battery *** Check latest line-up chart	* In case of 418 Wh battery ** In case of 504 Wh battery *** Check latest line-up chart	* In case of 418 Wh battery ** In case of 504 Wh battery *** Check latest line-up chart	* In case of 418 Wh battery ** In case of 504 Wh battery *** Check latest line-up chart	* In case of 418 Wh battery ** In case of 504 Wh battery *** 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
	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-E8020 BT-E8035	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8020 BT-E8035	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8020 BT-E8035	BT-E6010 BT-E8010 BT-E8014 BT-E8035	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8020 BT-E8035	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8020 BT-E8035
Compatible voltage	AC 100 V - 240 V, 50 - 60 Hz	AC 100 V - 240 V, 50 - 60 Hz	AC 100 V - 240 V, 50 - 60 Hz	AC 100 V, 50 - 60 Hz	AC 100 V - 240 V, 50 - 60 Hz	AC 100 V - 240 V, 50 - 60 Hz
CE standard	✓	✓	✓	✓	✓	✓
UL standard	✓	✓	✓	✓	✓	✓
Korea standard	✓	-	-	-	-	-
Japan standard	-	-	-	✓	-	-
Time to full charge (hour)	* 3.5 / ** 4.5	* 4 / ** 5	* 4 / ** 5	* 4 / ** 5	* 4 / ** 5	* 4 / ** 5
Time to 80% charge (hour)	* 2.0 / ** 2.5	* 2 / ** 2.5	* 2 / ** 2.5	* 2 / ** 2.5	* 2 / ** 2.5	* 2 / ** 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)	1	2	2	1	1	1
Average weight	-	930 g	985 g	-	955 g	960 g
Note	* In case of 418 Wh battery ** In case of 504 Wh battery *** Check latest line-up chart	* In case of 418 Wh battery ** In case of 504 Wh battery *** Check latest line-up chart	* In case of 418 Wh battery ** In case of 504 Wh battery *** Check latest line-up chart	* In case of 418 Wh battery ** In case of 504 Wh battery *** Check latest line-up chart	* In case of 418 Wh battery ** In case of 504 Wh battery *** Check latest line-up chart	* In case of 418 Wh battery ** In case of 504 Wh battery *** 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
	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-E8020 BT-E8035	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8020 BT-E8035	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8020 BT-E8035	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8020 BT-E8035	BT-E6000 BT-E6001 BT-E6010 BT-E8010 BT-E8014 BT-E8020 BT-E8035
Compatible voltage	AC 100 V - 240 V, 50 - 60 Hz	AC 100 V - 240 V, 50 - 60 Hz	AC 100 V - 240 V, 50 - 60 Hz	AC 100 V - 240 V, 50 - 60 Hz	AC 100 V - 240 V, 50 - 60 Hz
CE standard	✓	✓	✓	✓	✓
UL standard	✓	✓	✓	✓	✓
Korea standard	✓	✓	✓	✓	✓
Japan standard	-	-	-	-	✓
Time to full charge (hour)	* 4 / ** 5	* 4 / ** 5	* 4 / ** 5	* 4 / ** 5	* 6.5 / ** 7.5
Time to 80% charge (hour)	* 2 / ** 2.5	* 2 / ** 2.5	* 2 / ** 2.5	* 2 / ** 2.5	* 5.5 / ** 6.5
Charging Level Display	-	-	-	-	-
Plug in charging type	✓	✓	✓	✓	✓
Charging temperature	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C
Storage temperature	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Error signal	✓	✓	✓	✓	✓
Adapter for battery connector	*** -	*** -	*** -	*** -	*** -
Compatible AC power cable	-	-	-	-	SM-BCC1
Built in AC cable	✓	✓	✓	✓	-
Built in AC cable length (m)	1	1	1	1	-
Average weight	930 g	-	950 g	950 g	523 g
Note	* In case of 418 Wh battery ** In case of 504 Wh battery *** Check latest line-up chart	* In case of 418 Wh battery ** In case of 504 Wh battery *** Check latest line-up chart	* In case of 418 Wh battery ** In case of 504 Wh battery *** Check latest line-up chart	* In case of 418 Wh battery ** In case of 504 Wh battery *** Check latest line-up chart	* In case of 418 Wh battery ** In case of 504 Wh battery *** Check latest line-up chart

DI2 Adapter

Series	SHIMANO	SHIMANO
Model no.	EW-EX010	EW-EX020
Type of DI2 component	Master unit	Master unit
E-TUBE connector QTY	-	-
E-TUBE port QTY	2	2
Compatible EW	EW-SD50	EW-SD50
Note	DI2 adapter B (for BOSCH ebike system)	DI2 adapter A (for Panasonic 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

EWSW

EWCP

EC

EWEX

SMDU

ARCHIVE

SHIMANO