

SHIMANO SPEC. HANDBOOK 2012-2013

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

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This information should not be photo copied.

Issued on Nov. 29, 2012
SHIMANO INC.

Rear Derailleur (MTB) Specifications

Series		XTR	XTR	XTR	XTR	SAINT
Model No.		RD-M986	RD-M986	RD-M981	RD-M981	RD-M820
Pulley Cage		GS	SGS	GS	SGS	SS
Rear Speeds		10	10	10	10	10
Low-Normal Spring Type		-	-	-	-	-
Top-Normal Spring Type		X	X	X	X	X
Max. Front Difference		18T	18T	18T	18T	Single
Total Capacity		35T	41T	35T	41T	25T
Low Sprocket	Max.	36T	36T	36T	36T	28/36T*
	Min.	32T	32T	32T	32T	23T
Top Sprocket	Min.	11T	11T	11T	11T	11T
Cable Adjuster		-	-	-	-	-
Average Weight		-	-	-	-	-

ARCHIVE

Rear Derailleur (MTB) Specifications

Series		SAINT	SAINT	Deore XT	Deore XT	Deore XT
Model No.		RD-M810-A	RD-M810-A	RD-M781	RD-M781	RD-M786
Pulley Cage		SS	GS	GS	SGS	GS
Rear Speeds		9	9	10	10	10
Low-Normal Spring Type		-	-	-	-	-
Top-Normal Spring Type		X	X	X	X	X
Max. Front Difference		Front single use	14T	18T	18T	18T
Total Capacity		17/23T*	31/37T*	35T	43T	35T
Low Sprocket	Max.	28/36T*	28/36T*	36T	36T	36T
	Min.	23/32T*	23/32T*	32T	32T	32T
Top Sprocket	Min.	11T	11T	11T	11T	11T
Cable Adjuster		-	-	-	-	-
Average Weight		240g	250g	-	-	-

ARCHIVE

Rear Derailleur (MTB) Specifications

Series		Deore XT	Deore XT	Deore XT	Deore XT	Deore XT
Model No.		RD-M786	RD-T780	RD-M772	RD-M772	RD-M771
Pulley Cage		SGS	SGS	GS	SGS	GS
Rear Speeds		10	10	9	9	9
Low-Normal Spring Type		-	-	-	-	-
Top-Normal Spring Type		X	X	X	X	X
Max. Front Difference		18T	22T	22T	22T	22T
Total Capacity		43T	45T	35T	45T	35T
Low Sprocket	Max.	36T	34T	36T	36T	34T
	Min.	32T	28T	32T	32T	32T
Top Sprocket	Min.	11T	11T	11T	11T	11T
Cable Adjuster		-	-	-	-	-
Average Weight		-	236g	227g	-	228g

ARCHIVED

Rear Derailleur (MTB) Specifications

Series		Deore XT	Deore XT	Deore XT	SLX	SLX
Model No.		RD-M771	RD-M770	RD-M770	RD-M670	RD-M670
Pulley Cage		SGS	GS	SGS	GS	SGS
Rear Speeds		9	9	9	10	10
Low-Normal Spring Type		-	X	X	-	-
Top-Normal Spring Type		X	-	-	X	X
Max. Front Difference		22T	22T	22T	22T	22T
Total Capacity		45T	35T	45T	35T	43T
Low Sprocket	Max.	34T	34T	34T	36T	36T
	Min.	32T	32T	32T	32T	32T
Top Sprocket	Min.	11T	11T	11T	11T	11T
Cable Adjuster		-	-	-	-	-
Average Weight		-	225g	-	-	-

Rear Derailleur (MTB) Specifications

Series		SLX	SLX	SLX	SLX	Deore LX
Model No.		RD-M675	RD-M675	RD-M662	RD-M662	RD-T670
Pulley Cage		GS	SGS	GS	SGS	SGS
Rear Speeds		10	10	9	9	10
Low-Normal Spring Type		-	-	-	-	-
Top-Normal Spring Type		X	X	X	X	X
Max. Front Difference		22T	22T	22T	22T	22T
Total Capacity		35T	43T	35T	45T	45T
Low Sprocket	Max.	36T	36T	36T	36T	34T
	Min.	32T	32T	32T	32T	28T
Top Sprocket	Min.	11T	11T	11T	11T	11T
Cable Adjuster		-	-	-	-	-
Average Weight		-	-	253g	258g	-

ARCHIVED

Rear Derailleur (MTB) Specifications

Series		Deore LX	Zee	Deore	Deore
Model No.		RD-T661	RD-M640	RD-M593	RD-M592
Pulley Cage		SGS	SS	SGS	SGS
Rear Speeds		9	10	10	9
Low-Normal Spring Type		-	-	-	-
Top-Normal Spring Type		X	X	X	X
Max. Front Difference		22T	Single	18T	22T
Total Capacity		43T	25T	43T	45T
Low Sprocket	Max.	32T	36T(Freeride spec) 28T(DH spec)	36T	36T
	Min.	28T	23T	32T	32T
Top Sprocket	Min.	11T	11T	11T	11T
Cable Adjuster		X	-	-	-
Average Weight		266g	-	286g	-

Rear Derailleur (MTB) Specifications

Series		Deore	Alivio	Alivio	Acera	Acera
Model No.		RD-M591	RD-M430	RD-M410	RD-M390	RD-M360
Pulley Cage		SGS	SGS	SGS	SGS	SGS
Rear Speeds		9	9	8/7	9	8/7
Low-Normal Spring Type		-	-	-	-	-
Top-Normal Spring Type		X	X	X	X	X
Max. Front Difference		22T	22T	20T	22T	20T
Total Capacity		45T	45T	43T	45T	43T
Low Sprocket	Max.	34T	34T	34T	34T	34T
	Min.	28T	28T	28T	28T	28T
Top Sprocket	Min.	11T	11T	11T	11T	11T
Cable Adjuster		X	X	X	X	X
Average Weight		-	-	-	-	-

ARCHIVE

Rear Derailleur (MTB) Specifications

Series		Acera	Altus	Altus	Tourney	Tourney
Model No.		RD-M360	RD-M310	RD-M280	RD-TX75	RD-TX55
Pulley Cage		SGS	Smart	SGS	SGS	SGS
Rear Speeds		8/7	8/7	8/7	7/6	7/6
Low-Normal Spring Type		-	-	-	-	-
Top-Normal Spring Type		X	X	X	X	X
Max. Front Difference		20T	20T	20T	20T	20T
Total Capacity		43T	43T	43T	43T	43T
Low Sprocket	Max.	34T	34T	34T	34T	34T
	Min.	28T	28T	28T	28T	28T
Top Sprocket	Min.	11T	11T	11T	11T	11T
Cable Adjuster		X	X	X	X	X
Average Weight		-	-	-	-	-

ARCHIVE

Rear Derailleur (MTB) Specifications

Series		Tourney	Tourney	Tourney	Tourney	Tourney
Model No.		RD-TX35	RD-FT30	RD-TZ50	RD-TY21	RD-TY21
Pulley Cage		SGS	SS	GS	SS	GS
Rear Speeds		7/6	7/6	6	6	6
Low-Normal Spring Type		-	-	-	-	-
Top-Normal Spring Type		X	X	X	X	X
Max. Front Difference		20T	Front single use	20T	13T	20T
Total Capacity		43T	17T	34T	28T	34T
Low Sprocket	Max.	34T	28T	28T	28T	28T
	Min.	28T	28T	28T	28T	28T
Top Sprocket	Min.	11T	11T	14T	14T	14T
Cable Adjuster		X	X	X	X	X
Average Weight		-	-	-	-	-

ARCHIVE

Rear Derailleur (MTB) Specifications

Series		Tourney	Tourney
Model No.		RD-TY18	RD-TY18
Pulley Cage		SS	GS
Rear Speeds		6	6
Low-Normal Spring Type			
Top-Normal Spring Type		X	X
Max. Front Difference		13T	20T
Total Capacity		28T	34T
Low Sprocket	Max.	28T	28T
	Min.	28T	28T
Top Sprocket	Min.	14T	14T
Cable Adjuster		X	X
Average Weight		-	-

ARCHIVE

Front Derailleur (MTB) Specifications

Series		XTR	XTR	XTR	XTR	XTR	
Model No.		FD-M980	FD-M980-E	FD-M981	FD-M981-D	FD-M985	
Rear Speeds		10	10	10	10	10	
Top Swing Link		X	X	-	-	X	
Direct Mount		-	-	-	X	-	
E-type BB Mount		-	X (w/o BB Plate option)	-	-	-	
Chainline (mm)		50	50	50	50	46.8 for 38T 48.8 for 40-44T	
Top Gear Teeth		42T	42T	42T	42T	38-44T	
Capacity		18T	18T	18T	18T	14T	
Applicable Top-middle Tooth Difference		10T	10T	10T	10T	-	
Chainstay Angle (deg.)		66-69	66-69	66-69	66-69	66-69	
Dual Pull		X	X	X	X	X	
28.6mm	Cable route	Top	X (w/AdapterS)	-	X (w/AdapterS)	-	X (w/AdapterS)
		Down	X (w/AdapterS)	-	X (w/AdapterS)	-	X (w/AdapterS)
31.8mm		Top	X (w/AdapterM)	-	X (w/AdapterM)	-	X (w/AdapterM)
		Down	X (w/AdapterM)	-	X (w/AdapterM)	-	X (w/AdapterM)
34.9mm		Top	X	-	X	-	X
		Down	X	-	X	-	X
Average Weight		125g	142g (w / o BB plate)	148g	143g	135g	
Note					*Outer cable stopper integrated design		

Front Derailleur (MTB) Specifications

Series		XTR	XTR	XTR	XTR	Deore XT	
Model No.		FD-M985-E	FD-M985-E2	FD-M986	FD-M986-D	FD-M780	
Rear Speeds		10	10	10	10	10	
Top Swing Link		X	X	-	-	X	
Direct Mount		-	X	-	X	-	
E-type BB Mount		X (w/o BB Plate option)	w/o BB Plate only	-	-	-	
Chainline (mm)		48.8 for 40-44T	46.8 for 38T 48.8 for 40T	46.8 for 38T 48.8 for 40-44T	46.8 for 38T 48.8 for 40-44T	50	
Top Gear Teeth		40-44T	38-40T	38-44T	38-44T*	42T	
Capacity		14T	12T	14T	14T	18T	
Applicable Top-middle Tooth Difference		-	-	-	-	10T	
Chainstay Angle (deg.)		66-69	66-69	66-69	66-69	66-69	
Dual Pull		X	X	X	X	X	
28.6mm	Cable route	Top	-	-	X (w/AdapterS)	-	X (w/AdapterS)
		Down	-	-	X (w/AdapterS)	-	X (w/AdapterS)
31.8mm		Top	-	-	X (w/AdapterM)	-	X (w/AdapterM)
		Down	-	-	X (w/AdapterM)	-	X (w/AdapterM)
34.9mm		Top	-	-	X	-	X
		Down	-	-	X	-	X
Average Weight		155g	125g	127g	122g	153g	
Note					*Outer cable stopper integrated design *new FD mount position is required when used for 44T		

Front Derailleur (MTB) Specifications

Series		Deore XT	Deore XT	Deore XT	Deore XT	Deore XT
Model No.		FD-M780-E	FD-M781	FD-M781-D	FD-M785	FD-M785-E2
Rear Speeds		10	10	10	10	10
Top Swing Link		X	-	-	X	X
Direct Mount		-	-	X	-	X
E-type BB Mount		X (w/o BB Plate option)	-	-	-	w/o BB Plate only
Chainline (mm)		50	50	50	48.8	48.8
Top Gear Teeth		42T	42T	42T	44-38T	40-38T
Capacity		18T	18T	18T	14T	12T
Applicable Top-middle Tooth Difference		10T	10T	10T	-	-
Chainstay Angle (deg.)		66-69	66-69	66-69	66-69	66-69
Dual Pull		X	X	X	X	X
28.6mm	Cable route	Top	-	X (w/AdapterS)	-	X (w/AdapterS)
		Down	-	X (w/AdapterS)	-	X (w/AdapterS)
31.8mm		Top	-	X (w/AdapterM)	-	X (w/AdapterM)
		Down	-	X (w/AdapterM)	-	X (w/AdapterM)
34.9mm		Top	-	X	-	X
		Down	-	X	-	X
Average Weight		160g	153g	148g	136g	131g
Note				*Outer cable stopper integrated design		

Front Derailleur (MTB) Specifications

Series		Deore XT	Deore XT	Deore XT	Deore XT	Deore XT	
Model No.		FD-M786	FD-M786-D	FD-T780-3	FD-T780-6	FD-T781-3	
Rear Speeds		10	10	10	10	10	
Top Swing Link		-	-	-	-	-	
Direct Mount		-	X	-	-	-	
E-type BB Mount		-	-	-	-	-	
Chainline (mm)		48.8	48.8	50	50	50	
Top Gear Teeth		44-38T	44-38T	48/44T	48/44T	48/44T	
Capacity		14T	14T	22T	22T	22T	
Applicable Top-middle Tooth Difference		-	-	12T	12T	12T	
Chainstay Angle (deg.)		66-69	66-69	63-66	66-69	63-66	
Dual Pull		X	X	X	X	X	
28.6mm	Cable route	Top	X (w/AdapterS)	-	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
		Down	X (w/AdapterS)	-	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
31.8mm		Top	X (w/AdapterM)	-	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
		Down	X (w/AdapterM)	-	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
34.9mm		Top	X	-	X	X	X
		Down	X	-	X	X	X
Average Weight		154g	142g	155g	155g	167.7g	
Note		*Outer cable stopper integrated design	*Outer cable stopper integrated design *new FD mount position is required when used for 44T				

Front Derailleur (MTB) Specifications

Series		Deore XT	Deore XT	Deore XT	Deore XT	Deore XT	
Model No.		FD-M770	FD-M770-E	FD-M771	FD-M771-D	FD-M772A	
Rear Speeds		9	9	9	9	9	
Top Swing Link		X	X	-	-	X	
Direct Mount		-	-	-	X	-	
E-type BB Mount		-	X	-	-	-	
Chainline (mm)		50	50	50	50	50	
Top Gear Teeth		44/48T	44T	44T	44T	44/48T	
Capacity		22T	22T	22T	22T	22T	
Applicable Top-middle Tooth Difference		12T	12T	12T	12T	12T	
Chainstay Angle (deg.)		66-69	66-69	66-69	66-69	63-66	
Dual Pull		X	X	X	X	X	
28.6mm	Cable route	Top	X (w/AdapterS)	X	X (w/AdapterS)	-	X (w/AdapterS)
		Down	X (w/AdapterS)	X	X (w/AdapterS)	-	X (w/AdapterS)
31.8mm		Top	X (w/AdapterM)	X	X (w/AdapterM)	-	X (w/AdapterM)
		Down	X (w/AdapterM)	X	X (w/AdapterM)	-	X (w/AdapterM)
34.9mm		Top	X	X	X	-	X
		Down	X	X	X	-	X
Average Weight		152g	166g	155g	147g	160g	
Note			Without BB Plate option is available		*Outer cable stopper integrated design		

Front Derailleur (MTB) Specifications

Series		Deore XT	SLX	SLX	SLX	SLX
Model No.		FD-M773	FD-M670-B	FD-M670-E	FD-M671-B	FD-M671-D
Rear Speeds		9	10	10	10	10
Top Swing Link		-	X	X	-	-
Direct Mount		-	-	-	-	X
E-type BB Mount		-	-	X	-	-
Chainline (mm)		50	50	50	50	50
Top Gear Teeth		44/48T	42T	42T	42T	42T
Capacity		22T	18T	18T	18T	18T
Applicable Top-middle Tooth Difference		12T	10T	10T	10T	10T
Chainstay Angle (deg.)		63-66	66-69	66-69	66-69	66-69
Dual Pull		X	X	X	X	X
28.6mm	Cable route	Top	X (w/AdapterS)	X (w/AdapterS)	-	X (w/AdapterS)
		Down	X (w/AdapterS)	X (w/AdapterS)	-	X (w/AdapterS)
31.8mm		Top	X (w/AdapterM)	X (w/AdapterM)	-	X (w/AdapterM)
		Down	X (w/AdapterM)	X (w/AdapterM)	-	X (w/AdapterM)
34.9mm		Top	X	X	-	X
		Down	X	X	-	X
Average Weight		174g	-	-	-	-
Note						

Front Derailleur (MTB) Specifications

Series		SLX	SLX	SLX	SLX	SLX
Model No.		FD-M675-B	FD-M675-E2	FD-M676-B	FD-M676-D	FD-M660-E
Rear Speeds		10	10	10	10	9
Top Swing Link		X	X	-	-	X
Direct Mount		-	-	-	X	-
E-type BB Mount		-	w/o BB Plate only	-	-	X
Chainline (mm)		48.8	48.8	48.8	48.8	50
Top Gear Teeth		44-38T	40-38T	44-38T	44-38T	44T
Capacity		14T	14T	14T	14T	22T
Applicable Top-middle Tooth Difference		-	-	-	-	12T
Chainstay Angle (deg.)		66-69	66-69	66-69	66-69	66-69
Dual Pull		X	X	X	X	X
28.6mm	Cable route	Top	X (w/AdapterS)	-	X (w/AdapterS)	-
		Down	X (w/AdapterS)	-	X (w/AdapterS)	-
31.8mm	Cable route	Top	X (w/AdapterM)	-	X (w/AdapterM)	-
		Down	X (w/AdapterM)	-	X (w/AdapterM)	-
34.9mm	Cable route	Top	X	-	X	-
		Down	X	-	X	-
Average Weight		-	-	-	-	170g
Note						Without BB Plate option is available

Front Derailleur (MTB) Specifications

Series		SLX	SLX	SLX	SLX	Deore LX
Model No.		FD-M661-D	FD-M665	FD-M665-E	FD-M667	FD-T670-3
Rear Speeds		9	9	9	9	10
Top Swing Link		-	X	X	-	-
Direct Mount		X	-	-	-	-
E-type BB Mount		-	-	X	-	-
Chainline (mm)		50	46.8	46.8	46.8	50
Top Gear Teeth		44T	36T	36T	36T	44/48T
Capacity		22T	14T	14T	14T	22T
Applicable Top-middle Tooth Difference		12T	-	-	-	12T
Chainstay Angle (deg.)		66-69	65-71	65-71	65-71	63-66
Dual Pull		X	X	X	X	X
28.6mm	Cable route	Top	-	X (w/AdapterS)	X	X (w/AdapterS)
		Down	-	X (w/AdapterS)	X	X (w/AdapterS)
31.8mm	Cable route	Top	-	X (w/AdapterM)	X	X (w/AdapterM)
		Down	-	X (w/AdapterM)	X	X (w/AdapterM)
34.9mm	Cable route	Top	-	X	X	X
		Down	-	X	X	X
Average Weight		150g	142g	-	163g	-
Note		*Outer cable stopper integrated design	*Designed for 165mm O/D Bash guard	*Designed for 165mm O/D Bash guard. Without BB Plate option is available	*Designed for 165mm O/D Bash guard	Angled clamp band

Front Derailleur (MTB) Specifications

Series		Deore LX	Deore LX	Deore	Deore	Deore
Model No.		FD-T670-6	FD-T671-3	FD-M590-10	FD-M591-10	FD-M590-6
Rear Speeds		10	10	10	10	9
Top Swing Link		-	-	X	-	X
Direct Mount		-	-	-	-	-
E-type BB Mount		-	-	-	-	-
Chainline (mm)		50	50	50	50	50
Top Gear Teeth		44/48T	44/48T	42T	42T	44/48T
Capacity		22T	22T	18T	18T	22T
Applicable Top-middle Tooth Difference		12T	12T	10T	10T	12T
Chainstay Angle (deg.)		66-69	63-66	66-69	66-69	66-69
Dual Pull		X	X	X	X	X
28.6mm	Cable route	Top	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
		Down	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
31.8mm	Cable route	Top	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
		Down	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
34.9mm	Cable route	Top	X	X	X	X
		Down	X	X	X	X
Average Weight		-	-	-	-	-
Note		Angled clamp band	Angled clamp band			Angled clamp band, black clamp band

Front Derailleur (MTB) Specifications

Series		Deore	Deore	Deore	Alivio	Alivio
Model No.		FD-M590-3	FD-M591-6	FD-M591-3	FD-M430-3	FD-M430-6
Rear Speeds		9	9	9	9	9
Top Swing Link		X	-	-	X	X
Direct Mount		-	-	-	-	-
E-type BB Mount		-	-	-	-	-
Chainline (mm)		50	50	50	50	50
Top Gear Teeth		44/48T	44/48T	44/48T	44/48T	44/48T
Capacity		22T	22T	22T	22T	22T
Applicable Top-middle Tooth Difference		12T	12T	12T	12T	12T
Chainstay Angle (deg.)		63-66	66-69	63-66	63-66	66-69
Dual Pull		X	X	X	X	X
28.6mm	Cable route	Top	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
		Down	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
31.8mm		Top	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
		Down	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
34.9mm		Top	X	X	X	X
		Down	X	X	X	X
Average Weight		-	-	-	-	-
Note		Angled clamp band, silver clamp band	Angled clamp band, black clamp band	Angled clamp band, silver clamp band	Angled clamp band, silver clamp band	Angled clamp band, black clamp band

Front Derailleur (MTB) Specifications

Series		Alivio	Alivio	Alivio	Alivio	Alivio
Model No.		FD-M431-3	FD-M431-6	FD-M412-3	FD-M412-6	FD-M410-E
Rear Speeds		9	9	8/7	8/7	8/7
Top Swing Link		-	-	X	X	X
Direct Mount		-	-	-	-	-
E-type BB Mount		-	-	-	-	X
Chainline (mm)		50	50	47.5 / 50	47.5 / 50	50
Top Gear Teeth		44/48T	44/48T	42/48T	42/48T	42T
Capacity		22T	22T	20T	20T	20T
Applicable Top-middle Tooth Difference		12T	12T	10T	10T	10T
Chainstay Angle (deg.)		63-66	66-69	63-66	66-69	New Slotted E-type Chainstay Angle: 63 to 69 degrees
Dual Pull		X	X	X	X	X
28.6mm	Cable route	Top	X(w/AdapterS)	X(w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
		Down	X(w/AdapterS)	X(w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
31.8mm		Top	X(w/AdapterM)	X(w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
		Down	X(w/AdapterM)	X(w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
34.9mm		Top	X	X	X	X
		Down	X	X	X	X
Average Weight		-	-	-	-	-
Note		Angled clamp band, silver clamp band	Angled clamp band, black clamp band			New slotted E-type

Front Derailleur (MTB) Specifications

Series		Acera	Acera	Acera	Acera	Altus
Model No.		FD-M390-3	FD-M390-6	FD-M360-3	FD-M360-6	FD-M311-3
Rear Speeds		9	9	8/7	8/7	8/7
Top Swing Link		X	X	X	X	-
Direct Mount		-	-	-	-	-
E-type BB Mount		-	-	-	-	-
Chainline (mm)		50	50	47.5 / 50	47.5 / 50	47.5 / 50
Top Gear Teeth		44/48T	44/48T	42/48T	42/48T	42/48T
Capacity		22T	22T	20T	20T	20T
Applicable Top-middle Tooth Difference		12T	12T	10T	10T	10T
Chainstay Angle (deg.)		63-66	66-69	63-66	66-69	63-66
Dual Pull		X	X	X	X	X
28.6mm	Cable route	Top	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
		Down	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
31.8mm		Top	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
		Down	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
34.9mm		Top	X	X	X	X
		Down	X	X	X	X
Average Weight		-	-	-	-	-
Note						

Front Derailleur (MTB) Specifications

Series		Altus	Altus	Altus	Non-Series	Non-Series
Model No.		FD-M311-6	FD-M310-3	FD-M310-6	FD-M190-3	FD-M190A-6
Rear Speeds		8/7	8/7	8/7	8/7	8/7
Top Swing Link		-	X	X	X	X
Direct Mount		-	-	-	-	-
E-type BB Mount		-	-	-	-	-
Chainline (mm)		47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50
Top Gear Teeth		42/48T	42/48T	42/48T	42T	42T
Capacity		20T	20T	20T	18T	18T
Applicable Top-middle Tooth Difference		10T	10T	10T	8T	8T
Chainstay Angle (deg.)		66-69	63-66	66-69	63-66	66-69
Dual Pull		X	X	X	X	X
28.6mm	Cable route	Top	X(w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
		Down	X(w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
31.8mm		Top	X(w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
		Down	X(w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
34.9mm		Top	X	X	X	X
		Down	X	X	X	X
Average Weight		-	-	-	-	-
Note						

Front Derailleur (MTB) Specifications

Series		Non-Series	Non-Series	Tourney	Tourney	Tourney
Model No.		FD-M191-3	FD-M191-6	FD-TX50-3	FD-TX50-6	FD-TX51-3
Rear Speeds		8/7	8/7	7/6	7/6	7/6
Top Swing Link		X	X	X	X	X
Direct Mount		-	-	-	-	-
E-type BB Mount		-	-	-	-	-
Chainline (mm)		47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50	47.5 / 50
Top Gear Teeth		48T	48T	42T	42T	48T
Capacity		20T	20T	18T	18T	20T
Applicable Top-middle Tooth Difference		10T	10T	8T	8T	10T
Chainstay Angle (deg.)		63-66	66-69	63-66	66-69	63-66
Dual Pull		X	X	X	X	X
28.6mm	Cable route	Top	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
		Down	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)	X (w/AdapterS)
31.8mm		Top	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
		Down	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)	X (w/AdapterM)
34.9mm		Top	X	X	X	X
		Down	X	X	X	X
Average Weight		-	-	-	-	-
Note						

Front Derailleur (MTB) Specifications

Series		Tourney	Tourney	Tourney	Tourney
Model No.		FD-TX51-6	FD-TY10	FD-TZ30	FD-TZ31
Rear Speeds		7/6	7/6	7/6	7/6
Top Swing Link		X	-	-	-
Direct Mount		-	-	-	-
E-type BB Mount		-	-	-	-
Chainline (mm)		47.5 / 50	47.5	47.5	47.5
Top Gear Teeth		48T	42T	42T	48T
Capacity		20T	18T	18T	20T
Applicable Top-middle Tooth Difference		10T	8T	8T	10T
Chainstay Angle (deg.)		66-69	66-69	66-69	66-69
Dual Pull		X	-	-	-
28.6mm	Cable route	Top	X (w/AdapterS)	X	X
		Down	X (w/AdapterS)	X	X
31.8mm	Cable route	Top	X (w/AdapterM)	X	X
		Down	X (w/AdapterM)	X	X
34.9mm	Cable route	Top	X	X*	-
		Down	X	-	-
Average Weight		-	-	-	-
Note		*Designed for 50mm chainline			

Shift Lever (MTB) Specifications

Series	XTR	XTR	SAINT	SAINT	Deore XT
Model No.	SL-M980-A	SL-M980-A-I	SL-M820	SL-M820-I	SL-M780
Lever Type	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus
Front speeds	2/3	2/3	-	-	2/3
Rear speeds	10	10	10	10	10
I-spec*1	-	X	-	X	-
Multi Release	X	X	X	X	X
Instant Release	X	X	X	X	X
2-Way Release	X	X	X	X	X
SL Cable Adjust	X (Carbon Reinforced Plastic)	X (Carbon Reinforced Plastic)	X	X	X
Optical Gear Display	-	-	-	-	X (removable)
SL Outer Casing	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed
Stainless SL Cable	X (PTFE)	X (PTFE)	X	X	X
Average Weight (pair)	-	-	-	-	255g

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Deore XT	Deore XT	Deore XT	SLX	SLX
Model No.	SL-M780-I	SL-M770-A	SL-T780	SL-M670	SL-M670-I
Lever Type	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus
Front speeds	2/3	3	3	2/3	2/3
Rear speeds	10	9	10	10	10
I-spec*1	X	-	-	-	X
Multi Release	X	-	×	-	-
Instant Release	X	X	×	-	-
2-Way Release	X	X	×	X	X
SL Cable Adjust	X	X	×	X	X
Optical Gear Display	-	X (removable)	×	X (removable)	-
SL Outer Casing	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed
Stainless SL Cable	X	X	×	X	X
Average Weight (pair)	227g	255g	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Deore LX	Zee	Deore	Deore	Deore
Model No.	SL-T670	SL-M640	ST-M590	SL-M591	SL-M590
Lever Type	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus
Front speeds	3	-	3	3	3
Rear speeds	10	10	9	10	9
I-spec*1	-	-	-	-	-
Multi Release	-	-	-	-	-
Instant Release	-	-	-	-	-
2-Way Release	X	X	X	X	X
SL Cable Adjust	X	X	X	X	X
Optical Gear Display	X	-	X	X	X
SL Outer Casing	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed	OT-SP41 sealed
Stainless SL Cable	X	X	X	X	X
Average Weight (pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Alivio	Alivio	Alivio	Alivio	Acera
Model No.	ST-M430 (L)	SL-M430	ST-M410	SL-M410	ST-M390
Lever Type	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus
Front speeds	3	3	3	3	3
Rear speeds	9	9	8	8	9
I-spec*1	-	-	-	-	-
Multi Release	-	-	-	-	-
Instant Release	-	-	-	-	-
2-Way Release	X	X	-	-	-
SL Cable Adjust	X	X	X	X	X
Optical Gear Display	X	X	Slide type/Above handlebar	Slide type/Above handlebar	X
SL Outer Casing	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Stainless SL Cable	Option	Option	Option	Option	Option
Average Weight (pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Acera	Acera	Acera	Acera	Non-Series
Model No.	SL-M390	ST-M360-2A	ST-M360-4A	SL-M360	ST-M310-8R2
Lever Type	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus
Front speeds	3	3	3	3	-
Rear speeds	9	8	8	8	8
I-spec*1	-	-	-	-	-
Multi Release	-	-	-	-	-
Instant Release	-	-	-	-	-
2-Way Release	-	-	-	-	-
SL Cable Adjust	X	X	X	X	X
Optical Gear Display	X	X	X	X	X
SL Outer Casing	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Stainless SL Cable	Option	Option	Option	Option	Option
Average Weight (pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-M310-8R4	ST-M310-L2	ST-M310-L4	SL-M310-L	SL-M310-8R
Lever Type	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus
Front speeds	-	3	3	3	-
Rear speeds	8	-	-	-	8
I-spec*1	-	-	-	-	-
Multi Release	-	-	-	-	-
Instant Release	-	-	-	-	-
2-Way Release	-	-	-	-	-
SL Cable Adjust	X	X	X	X	X
Optical Gear Display	X	X	X	X	X
SL Outer Casing	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Stainless SL Cable	Option	Option	Option	Option	Option
Average Weight (pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Non-Series	NEXAVE	Non-Series	Non-Series	Non-Series
Model No.	SL-M310-7R	ST-T300-S	ST-EF65-9R2	ST-EF65-9R4	ST-EF65-8R2
Lever Type	Rapidfire Plus	Tap-Fire	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus
Front speeds	-	3	-	-	-
Rear speeds	7	7	9	9	8
I-spec*1	-	-	-	-	-
Multi Release	-	-	-	-	-
Instant Release	-	-	-	-	-
2-Way Release	-	-	-	-	-
SL Cable Adjust	X	X	X	X	X
Optical Gear Display	X	Dial Type	X	X	X
SL Outer Casing	OT-SP40	OT-SP41	OT-SP40	OT-SP40	OT-SP40
Stainless SL Cable	Option	Option	Option	Option	Option
Average Weight (pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-EF65-8R4	ST-EF65-7R2	ST-EF65-7R4	ST-EF65-L2	ST-EF65-L4
Lever Type	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus
Front speeds	-	-	-	3	3
Rear speeds	8	7	7	-	-
I-spec*1	-	-	-	-	-
Multi Release	-	-	-	-	-
Instant Release	-	-	-	-	-
2-Way Release	-	-	-	-	-
SL Cable Adjust	X	X	X	X	X
Optical Gear Display	X	X	X	X	X
SL Outer Casing	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Stainless SL Cable	Option	Option	Option	Option	Option
Average Weight (pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-EF51-9R (4A)	ST-EF51-8R (4A)	ST-EF51-7R (4A)	ST-EF51-L (4A)	ST-EF51-9R(2A)
Lever Type	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus
Front speeds	-	-	-	3	-
Rear speeds	9	8	7	-	9
I-spec*1	-	-	-	-	-
Multi Release	-	-	-	-	-
Instant Release	-	-	-	-	-
2-Way Release	-	-	-	-	-
SL Cable Adjust	-	-	-	X	-
Optical Gear Display	Dial type	Dial type	Dial type	Dial type	Dial type
SL Outer Casing	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Stainless SL Cable	-	-	-	-	-
Average Weight (pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-EF51-8R (2A)	ST-EF51-7R (2A)	ST-EF51-L (2A)	ST-EF51-A9R (4A)	ST-EF51-A8R (4A)
Lever Type	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus
Front speeds	-	-	3	-	-
Rear speeds	8	7	-	9	8
I-spec*1	-	-	-	-	-
Multi Release	-	-	-	-	-
Instant Release	-	-	-	-	-
2-Way Release	-	-	-	-	-
SL Cable Adjust	-	-	X	-	-
Optical Gear Display	Dial type	Dial type	Dial type	Dial type	Dial type
SL Outer Casing	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Stainless SL Cable	-	-	-	-	-
Average Weight (pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-EF51-A7R (4A)	ST-EF51-AL(4A)	ST-EF51-A9R(2A)	ST-EF51-A8R(2A)	ST-EF51-A7R(2A)
Lever Type	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus
Front speeds	-	3	-	-	-
Rear speeds	7	-	9	8	7
I-spec*1	-	-	-	-	-
Multi Release	-	-	-	-	-
Instant Release	-	-	-	-	-
2-Way Release	-	-	-	-	-
SL Cable Adjust	-	X	-	-	-
Optical Gear Display	Dial type	Dial type	Dial type	Dial type	Dial type
SL Outer Casing	OT-SP40	OT-SP40	OT-SP40	OT-SP40	OT-SP40
Stainless SL Cable	-	-	-	-	-
Average Weight (pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Non-Series	Non-Series	Tourney	Tourney	Tourney
Model No.	ST-EF51-AL(2A)	ST-EF40-8R (2S)	ST-EF40-7R (2S)	ST-EF40-6R (2S)	ST-EF40-L (2S)
Lever Type	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus
Front speeds	3	-	-	-	3
Rear speeds	-	8	7	6	-
I-spec*1	-	-	-	-	-
Multi Release	-	-	-	-	-
Instant Release	-	-	-	-	-
2-Way Release	-	-	-	-	-
SL Cable Adjust	X	-	-	-	X
Optical Gear Display	Dial type	Dial type	Dial type	Dial type	Dial type
SL Outer Casing	OT-SP40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Stainless SL Cable	-	-	-	-	-
Average Weight (pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Tourney	Tourney	Tourney	Tourney	Tourney
Model No.	SL-RS47-8R	SL-RS47-7R	SL-RS47-L	SL-RS45-8R	SL-RS45-7R
Lever Type	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front speeds	-	-	3	-	-
Rear speeds	8	7	-	8	7
I-spec*1	-	-	-	-	-
Multi Release	-	-	-	-	-
Instant Release	-	-	-	-	-
2-Way Release	-	-	-	-	-
SL Cable Adjust	X	X	X	X	X
Optical Gear Display	X	X	X	X	X
SL Outer Casing	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Stainless SL Cable	-	-	-	-	-
Average Weight (pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Tourney	Tourney	Tourney	Tourney	Tourney
Model No.	SL-RS45-6R	SL-RS45-L	SL-RS44-7R	SL-RS44-6R	SL-RS44-L
Lever Type	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front speeds	-	3	-	-	3
Rear speeds	6	-	7	6	-
I-spec*1	-	-	-	-	-
Multi Release	-	-	-	-	-
Instant Release	-	-	-	-	-
2-Way Release	-	-	-	-	-
SL Cable Adjust	X	X	X	X	X
Optical Gear Display	X	X	Window type with O.G.D light	Window type with O.G.D light	Window type with O.G.D light
SL Outer Casing	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Stainless SL Cable	-	-	-	-	-
Average Weight (pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Tourney	Tourney	Tourney	Tourney	Tourney
Model No.	SL-RS44-LN	SM-RS44-L	SL-RS36-7R	SL-RS36-6R	SL-RS36-L
Lever Type	REVOSHIFT	-	REVOSHIFT	REVOSHIFT	REVOSHIFT
Front speeds	3	-	-	-	3
Rear speeds	-	-	7	6	-
I-spec*1	-	-	-	-	-
Multi Release	-	-	-	-	-
Instant Release	-	-	-	-	-
2-Way Release	-	-	-	-	-
SL Cable Adjust	X	-	-	-	X
Optical Gear Display	Window type with O.G.D light	-	Revolving type	Revolving type	Revolving type
SL Outer Casing	OT-SIS40	-	OT-SIS40	OT-SIS40	OT-SIS40
Stainless SL Cable	-	-	-	-	-
Average Weight (pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Tourney	Tourney	Tourney	Tourney	Tourney
Model No.	SL-RS36-LN	SL-RS35-7R	SL-RS35-6R	SL-RS35-L	SL-TX50-7R
Lever Type	REVOSHIFT	Revo Shift	Revo Shift	Revo Shift	Thumb Shifter Plus
Front speeds	3 (Ratchet)	-	-	3	-
Rear speeds	-	7	6	-	7
I-spec*1	-	-	-	-	-
Multi Release	-	-	-	-	-
Instant Release	-	-	-	-	-
2-Way Release	-	-	-	-	-
SL Cable Adjust	X	-	-	X	-
Optical Gear Display	Revolving type	Revolving type	Revolving type	Revolving type	Window type
SL Outer Casing	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Stainless SL Cable	-	-	-	-	-
Average Weight (pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Tourney	Tourney	Tourney	Tourney	Tourney
Model No.	SL-TX50-6R	SL-TX50-L	SL-TX50-LN	SL-TX30-7R	SL-TX30-6R
Lever Type	Thumb Shifter Plus	Thumb Shifter	Thumb Shifter	Thumb Shifter Plus	Thumb Shifter Plus
Front speeds	-	3	3 (Ratchet)	-	-
Rear speeds	6	-	-	7	6
I-spec*1	-	-	-	-	-
Multi Release	-	-	-	-	-
Instant Release	-	-	-	-	-
2-Way Release	-	-	-	-	-
SL Cable Adjust	-	X	X	-	-
Optical Gear Display	Window type	Window type	Window type	Dial type	Dial type
SL Outer Casing	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Stainless SL Cable	-	-	-	-	-
Average Weight (pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

Shift Lever (MTB) Specifications

Series	Tourney	Tourney	Tourney	Tourney
Model No.	SL-TX30-LN	SL-TZ20-7R	SL-TZ20-6R	SL-TZ20-LN
Lever Type	Thumb Shifter Plus	Thumb Shifter	Thumb Shifter	Thumb Shifter
Front speeds	3 (Ratchet)	-	-	3 (Friction)
Rear speeds	-	7	6	-
I-spec*1	-	-	-	-
Multi Release	-	-	-	-
Instant Release	-	-	-	-
2-Way Release	-	-	-	-
SL Cable Adjust	X	-	-	-
Optical Gear Display	Dial type	Dial type	Dial type	Dial type
SL Outer Casing	OT-SIS40	OT-SIS40	OT-SIS40	OT-SIS40
Stainless SL Cable	-	-	-	-
Average Weight (pair)	-	-	-	-

*1 Integration mounting system of BL and SL

Brake Lever (MTB) Specifications

Series	DXR	Deore XT	Deore LX	Deore	Deore	Deore
Model No.	BL-MX70	BL-T780	BL-T670	BL-M591	ST-M590	BL-M590
Brake Type	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE
Lever Size (Finger)	2	3	3	3	3	2
Brake Cable Type	T-type	T-type	T-type	T-type	T-type	T-type
Reach Adjust	X	X	X	X	X	X
Cable Adjust	X	X	X	X	X	X
Average Weight	175g	120.2g	-	-	-	-
Note	For BMX	Ispec Compatible Use w/Power Modulator	Ispec Compatible Use w/Power Modulator	Use w/Power Modulator	Use w/ Power Modulator	

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Brake Lever (MTB) Specifications

Series	Alivio	Alivio	Alivio	Alivio	Non-Series	Acera
Model No.	ST-M430	ST-M430	ST-M410	ST-M410	BL-M421	ST-M390
Brake Type	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE
Lever Size (Finger)	2	2	2	2	2	2
Brake Cable Type	T-type	T-type	T-type	T-type	T-type	T-type
Reach Adjust	X	X	X	X	X	X
Cable Adjust	X	X	X	X	X	X
Average Weight	-	-	-	-	-	-
Note						

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Brake Lever (MTB) Specifications

Series	Acera	Acera	Acera	Acera	Acera	Non-Series
Model No.	ST-M390	ST-M360-2A	ST-M360-2A	ST-M360-4A	ST-M360-4A	ST-M310-8R2
Brake Type	V-BRAKE	V-BRAKE	V-BRAKE	HRB/Canti brake V-BRAKE*	HRB/Canti brake V-BRAKE*	V-BRAKE
Lever Size (Finger)	2	2	2	4	4	2
Brake Cable Type	T-type	T-type	T-type	T-type	T-type	T-type
Reach Adjust	X	X	X	X	X	X
Cable Adjust	X	X	X	X	X	X
Average Weight	-	-	-	-	-	-
Note				*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	

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Brake Lever (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-M310-8R2	ST-M310-8R4	ST-M310-8R4	ST-M310-L2	ST-M310-L2	ST-M310-L4
Brake Type	V-BRAKE	HRB/Canti brake V-BRAKE*	HRB/Canti brake V-BRAKE*	V-BRAKE	V-BRAKE	HRB/Canti brake V-BRAKE*
Lever Size (Finger)	2	4	4	2	2	4
Brake Cable Type	T-type	T-type	T-type	T-type	T-type	T-type
Reach Adjust	X	X	X	X	X	X
Cable Adjust	X	X	X	X	X	X
Average Weight	-	-	-	-	-	-
Note		*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible			*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible

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Brake Lever (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-M310-L4	ST-EF65-9R2	ST-EF65-9R2	ST-EF65-9R4	ST-EF65-9R4	ST-EF65-8R2
Brake Type	HRB/Canti brake V-BRAKE*	V-BRAKE	V-BRAKE	HRB/V-BRAKE*	HRB/V-BRAKE*	V-BRAKE
Lever Size (Finger)	4	2	2	4	4	2
Brake Cable Type	T-type	T-type	T-type	T-type	T-type	T-type
Reach Adjust	X	X	X	X	X	X
Cable Adjust	X	X	X	X	X	X
Average Weight	-	-	-	-	-	-
Note	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible			*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	

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Brake Lever (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-EF65-8R2	ST-EF65-8R4	ST-EF65-8R4	ST-EF65-7R2	ST-EF65-7R2	ST-EF65-7R4
Brake Type	HRB/V-BRAKE*	HRB/V-BRAKE*	HRB/V-BRAKE*	V-BRAKE	V-BRAKE	HRB/V-BRAKE*
Lever Size (Finger)	2	4	4	2	2	4
Brake Cable Type	T-type	T-type	T-type	T-type	T-type	T-type
Reach Adjust	X	X	X	X	X	X
Cable Adjust	X	X	X	X	X	X
Average Weight	-	-	-	-	-	-
Note		*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible			*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible

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Brake Lever (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-EF65-7R4	ST-EF65-L2	ST-EF65-L2	ST-EF65-L4	ST-EF65-L4	ST-EF51-9R(4A)
Brake Type	HRB/V-BRAKE*	V-BRAKE	V-BRAKE	HRB/V-BRAKE*	HRB/V-BRAKE*	HRB/Canti brake V-BRAKE*
Lever Size (Finger)	4	2	2	4	4	4
Brake Cable Type	T-type	T-type	T-type	T-type	T-type	T-type
Reach Adjust	X	X	X	X	X	X
Cable Adjust	X	X	X	X	X	X
Average Weight	-	-	-	-	-	-
Note	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible			*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible

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Brake Lever (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-EF51-8R (4A)	ST-EF51-8R (4A)	ST-EF51-7R (4A)	ST-EF51-7R (4A)	ST-EF51-L (4A)	ST-EF51-L (4A)
Brake Type	HRB/Canti brake V-BRAKE*	HRB/Canti brake V-BRAKE*	HRB/Canti brake V-BRAKE*	HRB/Canti brake V-BRAKE*	HRB/Canti brake V-BRAKE*	HRB/Canti brake V-BRAKE*
Lever Size (Finger)	4	4	4	4	4	4
Brake Cable Type	T-type	T-type	T-type	T-type	T-type	T-type
Reach Adjust	X	X	X	X	X	X
Cable Adjust	X	X	X	X	X	X
Average Weight	-	-	-	-	-	-
Note	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible	*V-BRAKE and Mechanical Disc Brake must be used with power modulator. *INTER-M Compatible

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Brake Lever (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-EF51-9R(2A)	ST-EF51-8R (2A)	ST-EF51-8R (2A)	ST-EF51-7R (2A)	ST-EF51-7R (2A)	ST-EF51-L (2A)
Brake Type	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE
Lever Size (Finger)	2	2	2	2	2	2
Brake Cable Type	T-type	T-type	T-type	T-type	T-type	T-type
Reach Adjust	X	X	X	X	X	X
Cable Adjust	X	X	X	X	X	X
Average Weight	-	-	-	-	-	-
Note						

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Brake Lever (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-EF51-L (2A)	ST-EF51-A9R (4A)	ST-EF51-A8R (4A)	ST-EF51-A7R (4A)	ST-EF51-AL (4A)	ST-EF51-A9R (2A)
Brake Type	V-BRAKE	HRB/Canti brake V-BRAKE*	HRB/Canti brake V-BRAKE*	HRB/Canti brake V-BRAKE*	HRB/Canti brake V-BRAKE*	V-BRAKE
Lever Size (Finger)	2	4	4	4	4	2
Brake Cable Type	T-type	T-type	T-type	T-type	T-type	T-type
Reach Adjust	X	X	X	X	X	X
Cable Adjust	X	X	X	X	X	X
Average Weight	-	-	-	-	-	-
Note		*V-BRAKE and Mechanical Disc Brake must be used with power modulator *INTER-M Compatible	*V-BRAKE and Mechanical Disc Brake must be used with power modulator *INTER-M Compatible	*V-BRAKE and Mechanical Disc Brake must be used with power modulator *INTER-M Compatible	*V-BRAKE and Mechanical Disc Brake must be used with power modulator *INTER-M Compatible	

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Brake Lever (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Tourney	Tourney
Model No.	ST-EF51-A8R (2A)	ST-EF51-A7R (2A)	ST-EF51-AL (2A)	ST-EF40-8R (2S)	ST-EF40-7R (2S)	ST-EF40-6R (2S)
Brake Type	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE
Lever Size (Finger)	2	2	2	2	2	2
Brake Cable Type	T-type	T-type	T-type	T-type	T-type	T-type
Reach Adjust	X	X	X	X	X	X
Cable Adjust	X	X	X	X	-	-
Average Weight	-	-	-	-	-	-
Note						

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Brake Lever (MTB) Specifications

Series	Tourney
Model No.	ST-EF40-L (2S)
Brake Type	V-BRAKE
Lever Size (Finger)	2
Brake Cable Type	T-type
Reach Adjust	X
Cable Adjust	X
Average Weight	-
Note	

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Brake (MTB) Specifications

Series		DXR	Deore XT	Deore LX	Deore	Non-Series
Model No.		BR-MX70	BR-T780	BR-T670	BR-M590	BR-M432
Brake Type		V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE	V-BRAKE
Linear Spring		X	X	X	X	X
Brake Shoe Type	Standard	S70C	M70CT4	M70CT4	S70C	S70C
	Option	M70T3 M70T4	S70C	S70C M70T3	M70T3 M70T4 S70T	M70R2
Arch Size (mm)		103	103	107	107	107
Fixing Bolt Length (mm)		16	16/25	16/25	16/25	16/25
Lead Pipe Angle (deg.)		45/90/135	45/90/135	45/90/135	45/90/135	45/90/135
Cartridge Shoe Holder		X	X	X	X	X
Average Weight		184g	174g	-	-	-

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Brake (MTB) Specifications

Series	Non-Series	
Model No.	BR-M422	
Brake Type	V-BRAKE	
Linear Spring	X	
Brake Shoe Type	Standard	S65T
	Option	M65T3 M65T4
Arch Size (mm)	107	
Fixing Bolt Length (mm)	16/25	
Lead Pipe Angle (deg.)	45/90/135	
Cartridge Shoe Holder	-	
Average Weight	-	

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Disc Brake (MTB) Specifications

Brake Lever

Series	XTR	XTR	SAINT	Deore XT	Deore XT
Model No.	BL-M985	BL-M988	BL-M820	BL-M785	BL-T785
Brake Type	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake
I-spec*1	X	X	X	X	X
SERVO-WAVE Action	-	X	X	X	-
Recommended Brake Caliper	BR-M985	BR-M985	BR-M820	BR-M785	BR-M785
Bleeding Tool	Funnel	Funnel	Funnel	Funnel	Funnel
Lever Size (Finger)	1.5	1.5	1.5	2	3
Reach Adjust	X	X (Tool Free)	X (Tool Free)	X (Tool Free)	X (Tool Free)
Free Stroke Adjust	-	X	X	X	-
Open Clamp Band	X (1 bolt type)	X (1 bolt type)	X (1 bolt type)	X (1 bolt type)	X (1 bolt type)
Brake Hose	SM-BH90-SB	SM-BH90-SB	SM-BH90-SBLS	SM-BH90-SB	SM-BH90-SB
Average Weight (Pair)	162g	195g	-	231g	240g

*1 Integration mounting system of BL and SL

Disc Brake (MTB) Specifications

Brake Lever

Series	SLX	Deore LX	Zee	Deore	Non-Series
Model No.	BL-M675	BL-T675	BL-M640	BL-M596	BL-M575
Brake Type	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake
I-spec*1	X	X	X	X	-
SERVO-WAVE Action	X	-	X	X	-
Recommended Brake Caliper	BR-M675	BR-T675	BR-M640	BR-M596	BR-M575
Bleeding Tool	Funnel	Funnel	Funnel	Funnel	Funnel
Lever Size (Finger)	1.5	3	1.5	1.5	1.5
Reach Adjust	X (Tool Free)	X (Tool Free)	X	X	X
Free Stroke Adjust	-	-	-	-	-
Open Clamp Band	X (1 bolt type)	X (1 bolt type)	X (1 bolt type)	X (1 bolt type)	X (2 bolts type)
Brake Hose	SM-BH90-SB	SM-BH90-SS	SM-BH90-SBS	SM-BH90-SS	SM-BH59
Average Weight (Pair)	-	-	-	-	-

*1 Integration mounting system of BL and SL

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Disc Brake (MTB) Specifications

Brake Lever

Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	BL-M505	BL-M445	BL-T445	BL-M395
Brake Type	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake
I-spec*1	-	-	-	-
SERVO-WAVE Action	-	-	-	-
Recommended Brake Caliper	BR-M446	BR-M446	BR-M446	BR-M395
Bleeding Tool	-	Funnel	Funnel	Funnel
Lever Size (Finger)	1.5	2	3	2
Reach Adjust	X	X	X	X
Free Stroke Adjust	-	-	-	-
Open Clamp Band	X (1 bolt type)	-	-	-
Brake Hose	SM-BH59	SM-BH59	SM-BH59	SM-BH59-A
Average Weight (Pair)	-	-	-	-

*1 Integration mounting system of BL and SL

Disc Brake (MTB) Specifications

Brake Caliper

Series		XTR	SAINT	Deore XT	SLX	Deore LX
Model No.		BR-M985	BR-M820	BR-M785	BR-M675	BR-T675
Brake Type		Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake
Recommended Brake Lever		BL-M988 BL-M985	BL-M820	BL-M785/BL-T785	BL-M675	BL-T675
Recommended Brake Rotor		*SM-RT98	SM-RT99 SM-RT81 SM-RT86	SM-RT81 SM-RT67A SM-RT86 SM-RT76	SM-RT67 SM-RT66	SM-RT54
One Way Bleeding		X	X	X	X	X
Mount Type (available for IS mount with mount adapter)		Post-type	Post-type	Post-type	Post-type	Post-type
PAD	Standard	G01A Resin, F03C Metal	H01A Resin, H03C Metal	G01A Resin, F03C Metal	G01S Resin, F03C Metal	B01S Resin
	Option	G03Ti Metal, F01A Resin ¹	-	G03S Metal, F01A Resin ¹	G03S Metal, F01A Resin	-
Average Weight		190g (F&R, resin pad) 220g (F&R, resin pad w / radiator fin)	-	262g (F&R, resin pad w / radiator fin)	-	-
Note		*140mm for rear only				

Disc Brake (MTB) Specifications

Brake Caliper

Series		Zee	Deore	Non-Series	Non-Series	Non-Series
Model No.		BR-M640	BR-M596	BR-M575	BR-R515	BR-R505
Brake Type		Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake	Mechanical Disc-brake	Mechanical Disc-brake
Recommended Brake Lever		BL-M640	BL-M596	BL-M575	ST-5700/ 4600 BL-R780/ 4600	For BL-TT78 ST-3400/ST-2300 ST-R221
Recommended Brake Rotor		SM-RT67 SM-RT66	SM-RT64 SM-RT66	*SM-RT54 SM-RT64	SM-RT64	SM-RT64
One Way Bleeding		X	X	-	-	-
Mount Type (available for IS mount with mount adapter)		Post-type	Post-type	Post-type	Post-type	Post-type
PAD	Standard	D01S Resin D02S Metal	A01S Resin	B01S Resin	G01S Resin	M06 Metal
	Option	H03C Metal, H01A Resin	M06 Metal	E01S Metal	-	-
Average Weight		-	-	-	-	-
Note			Shimano log spec available	*For resin pad only SHIMANO Logo		

Disc Brake (MTB) Specifications

Brake Caliper

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	BR-M495	BR-M446	BR-M416A	BR-M395	BR-M375
Brake Type	Mechanical Disc-brake	Hydraulic Disc-brake	Mechanical Disc-brake	Hydraulic Disc-brake	Mechanical Disc-brake
Recommended Brake Lever	V-BRAKE BL (1.5-2.5 finger)	BL-M445 / BL-M505 / BL-T445	V-BRAKE BL (1.5-2.5 finger)	BL-M395	V-BRAKE BL (1.5-2.5 finger)
Recommended Brake Rotor	SM-RT54 SM-RT56	SM-RT54 SM-RT56	SM-RT54 SM-RT56	SM-RT30 SM-RT54 SM-RT56	SM-RT30 SM-RT54 SM-RT56
One Way Bleeding	-	X	-	X	-
Mount Type (available for IS mount with mount adapter)	Post-type	Post-type	Post-type	Post-type	Post-type
PAD	Standard	B01S Resin	B01S Resin	B01S Resin	B01S Resin
	Option	-	-	-	-
Average Weight	-	-	-	151g	-
Note		SHIMANO Logo	SHIMANO Logo	SHIMANO Logo	SHIMANO Logo

Disc Brake (MTB) Specifications

Brake Rotor

Series		XTR	XTR	XTR	XTR	SAINT
Model No.		SM-RT98-L	SM-RT98-M	SM-RT98-S	SM-RT98-SS	SM-RT99
Brake Type		Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Outside Diameter	203mm	X	-	-	-	X
	180mm	-	X	-	-	-
	160mm	-	-	X	-	-
	140mm	-	-	-	X	-
Center Lock (Standard Size)		X	X	X	X	X
6bolt (PCD 44mm)		-	-	-	-	-
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
Note		Ice technologies	Ice technologies	Ice technologies	Ice technologies For Rear Only	Ice technologies w/Radiator fin

Disc Brake (MTB) Specifications

Brake Rotor

Series		SAINT/Deore XT	SAINT/Deore XT	SAINT/Deore XT	SAINT/Deore XT	SAINT/Deore XT
Model No.		SM-RT86-L	SM-RT86-M	SM-RT86-S	SM-RT81-L	SM-RT81-M
Brake Type		Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Outside Diameter	203mm	X	-	-	X	-
	180mm	-	X	-	-	X
	160mm	-	-	X	-	-
	140mm	-	-	-	-	-
Center Lock (Standard Size)		-	-	-	X	X
6bolt (PCD 44mm)		X	X	X	-	-
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
Note		Ice technologies	Ice technologies	Ice technologies	Ice technologies	Ice technologies

Disc Brake (MTB) Specifications

Brake Rotor

Series		SAINT/Deore XT	Deore XT	Deore XT	Deore XT	Deore XT
Model No.		SM-RT81-S	SM-RT76L	SM-RT76M	SM-RT76	SM-RT67-AL
Brake Type		Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Outside Diameter	203mm	-	X	-	-	X
	180mm	-	-	X	-	-
	160mm	X	-	-	X	-
	140mm	-	-	-	-	-
Center Lock (Standard Size)		X	-	-	-	X
6bolt (PCD 44mm)		-	X	X	X	-
Rotor	Material	Stainless Steel+Aluminum+ Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Note		Ice technologies				

Disc Brake (MTB) Specifications

Brake Rotor

Series		Deore XT	Deore XT	SLX	SLX	SLX
Model No.		SM-RT67-AM	SM-RT67-AS	SM-RT67-L	SM-RT67-M	SM-RT67-S
Brake Type		Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Outside Diameter	203mm	-	-	X	-	-
	180mm	X	-	-	X	-
	160mm	-	X	-	-	X
	140mm	-	-	-	-	-
Center Lock (Standard Size)		X	X	X	X	X
6bolt (PCD 44mm)		-	-	-	-	-
Rotor	Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Note						

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Disc Brake (MTB) Specifications

Brake Rotor

Series		SLX/Deore	SLX/Deore	SLX/Deore	Deore	Deore
Model No.		SM-RT66-L	SM-RT66-M	SM-RT66-S	SM-RT64-L	SM-RT64-M
Brake Type		Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Outside Diameter	203mm	X	-	-	X	-
	180mm	-	X	-	-	X
	160mm	-	-	X	-	-
	140mm	-	-	-	-	-
Center Lock (Standard Size)		-	-	-	X	X
6bolt (PCD 44mm)		X	X	X	-	-
Rotor	Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Note						

Disc Brake (MTB) Specifications

Brake Rotor

Series		Deore	Non-Series	Non-Series	Non-Series	Non-Series
Model No.		SM-RT64	SM-RT56-M	SM-RT56-S	SM-RT54-M	SM-RT54-S
Brake Type		Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Outside Diameter	203mm	-	-	-	-	-
	180mm	-	X	-	X	-
	160mm	X	-	X	-	X
	140mm	-	-	-	-	-
Center Lock (Standard Size)		X	-	-	X	X
6bolt (PCD 44mm)		-	X	X	-	-
Rotor	Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Note			For Resin Pad Only	For Resin Pad Only	For Resin Pad Only	For Resin Pad Only

Disc Brake (MTB) Specifications

Brake Rotor

Series		Non-Series	Non-Series
Model No.		SM-RT30-M	SM-RT30
Brake Type		Disc-brake	Disc-brake
Outside Diameter	203mm	-	-
	180mm	X	-
	160mm	-	X
	140mm	-	-
Center Lock (Standard Size)		X	X
6bolt (PCD 44mm)		-	-
Rotor	Material	Stainless Steel	Stainless Steel
Note		For Resin Pad Only	For Resin Pad Only

Disc Brake (MTB) Specifications

Brake Rotor adapter

Series		Non-series	Non-series
Model No.		SM-RTAD10	SM-RTAD05
Color	1	Black	Black
	2	-	-
	3	-	-
Lock ring	type	Inner/Outer serration	Outer serration (Special)
	Material	Aluminum	Steel
Rotor mount method		Pins with C ring	Torx bolts
Compatibility (Rotor)	SM-RT86	-	-
	SM-RT76	-	-
	SM-RT75	×	×
	SM-RT51	×	×
Compatibility (Axle)	F20 Thru	×	×
	F15 E-Thru	×	×
	F9 QR	×	×
	R12 E-Thru	×	×
	R12 Thru	×	×
	R10 Thru	×	×
	R10 QR	×	×
Note	Use this disc rotor adapter to attach the 6-bolt mount type rotor to CENTER LOCK mount type hub. Cannot be used with the 6-bolt rotor that is installed with an aluminum adapter. (SM-RT86/76)		

Hub Roller Brake Specifications

Series	NEXUS	NEXUS	NEXUS		NEXUS		NEXAVE	NEXAVE	
Model No.	BR-IM86	BR-IM85	BR-IM81		BR-IM80		BR-IM75	BR-IM70	
	Front	Front	Front	Rear	Front	Rear	Front	Front	Rear
Hub Dynamo Integration	-	-	-	-	-	-	-	-	-
Structure Type	Hyper	Hyper	Hyper	Hyper	Hyper	Hyper	Hyper	Hyper	Hyper
Braking Power (*1)	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3
Cooling Fin Diameter (mm)	180	150	180	180	150	150	150	150	150
Heat Dissipation (*1)	2.3	1.4	2.3	2.3	1.4	1.4	2.2	2.2	2.2
Inner Cable Quick Release	X	X	X	X	X	X	X	X	X
Disc Brake Mount Compatible	X	X	-	-	-	-	X	-	-
Note									

Performance index rating uses BR-IM41
brake unit as a reference value of 1.
Testing condition ,

Hub Roller Brake Specifications

Series	NEXUS		NEXUS		NEXUS		NEXUS		Non-Series		NEXUS
Model No.	BR-IM55		BR-IM50		BR-IM45		BR-IM41		BR-IM35		BR-IM31
	Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear	Rear
Hub Dynamo Integration	-	-	-	-	-	-	-	-	-	-	-
Structure Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Braking Power (*1)	1	1	1	1	1	1	1	1	1	1	1
Cooling Fin Diameter (mm)	140	140	130	130	122	122	90	100	160	160	90
Heat Dissipation (*1)	1.2	1.2	1.2	1.2	1	1	1	1	1.4	1.4	Less than 1
Inner Cable Quick Release	X	X	X	X	X	X	X	X	-	-	-
Disc Brake Mount Compatible	-	-	-	-	-	-	-	-	-	-	-
Note											

Performance index rating uses BR-IM41
brake unit as a reference value of 1.
Testing condition ,

Power Modulator (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	SM-PM70	SM-PM60	SM-PM50	SM-PM40
Available Lead Pipe Angle (deg)	90/135	-	-	90/135
Compatible Brake	Any SHIMANO V-BRAKE without power modulator	Any SHIMANO V-BRAKE (Except:BRT400/T300)	Any SHIMANO Mechanical Disc Brake	Any SHIMANO V-BRAKE without power modulator
Compatible BL	Any SHIMANO V-BRAKE Lever without power Modulator	Any SHIMANO V-BRAKE Lever (Except:BL-C900/C600)	Any SHIMANO V-BRAKE Lever without power modulator	Any SHIMANO V-BRAKE Lever without power modulator

Front Chainwheel (MTB) Specifications

Series	XTR	XTR	XTR	XTR	XTR
Model No.	FC-M980	FC-M980	FC-M985	FC-M985	FC-M985
Rear Speeds	10	10	10	10	10
Chainring Combination	42-32-24T	38-26T	40-28T	42-30T	44-30T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	104/64	88	88	88
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	X	X	-	-
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	X	X
	175.0mm	X	X	X	X
	180.0mm	X	X	X	X
Chain	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Bottom Bracket	SM-BB90-A SM-BB91-41A	SM-BB90-A SM-BB91-41A	SM-BB90-A SM-BB91-41A	SM-BB90-A SM-BB91-41A	SM-BB90-A SM-BB91-41A
Chainline (mm)	50	46.8	48.8	48.8	48.8
Optional Chain Guard	-	-	-	-	-
2-piece Crank Construction	X	X	X	X	X
Axle Length of BB-UN / ES (mm)	-	-	-	-	-
Chain Case Compatible	-	-	-	-	-
Average Weight	770g (175mm)	735g	715g	720g	740g
Note					

Front Chainwheel (MTB) Specifications

Series	SAINT	SAINT	DXR	DEORE XT	Deore XT
Model No.	FC-M820	FC-M825	FC-MX71	FC-M780	FC-M785
Rear Speeds	10	10	1	10	10
Chainring Combination	34/36/38T (SM-CR82)	34/36/38T (SM-CR82)	34/38/41/42/ 43/44/46T	42-32-24T	40-28T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104	104	104/64	104/64	104/64
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	X	X	X	X
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	-	-
	175.0mm	X	X	X	X
	180.0mm	-	-	X	X
Chain	HG-X 10-speed	HG-X 10-speed	1/2" x 3/32"	HG-X 10-speed	HG-X 10-speed
Bottom Bracket	SM-BB80 SM-BB71-41A	SM-BB80 SM-BB71-41C	Included	SM-BB70 SM-BB71-41A	SM-BB70 SM-BB71-41A
Chainline (mm)	50.4	57.9	44	50	48.8
Optional Chain Guard	-	-	-	-	-
2-piece Crank Construction	X	X	X	X	X
Axle Length of BB-UN / ES (mm)	-	-	-	-	-
Chain Case Compatible	-	-	-	-	-
Average Weight	-	-	-	860g (175mm)	820g (175mm)
Note		for 83mm BB shell width	BMX racing 68mm BB shell width		

Front Chainwheel (MTB) Specifications

Series	Deore XT	Deore XT	Deore XT	Deore XT	Deore XT
Model No.	FC-M785	FC-M785	FC-T780	FC-T781	FC-T781
Rear Speeds	10	10	10	10	10
Chainring Combination	38-26T	38-24T	48-36-26T	48-36-26T	44-32-24T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	104/64	104/64	104/64	104/64
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	X	X	X	X
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	-	-
	175.0mm	X	X	X	X
	180.0mm	X	X	X	X
Chain	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Bottom Bracket	SM-BB70 SM-BB71-41A	SM-BB70 SM-BB71-41A	SM-BB70 SM-BB71-41A	SM-BB70 SM-BB71-41A	SM-BB70 SM-BB71-41A
Chainline (mm)	48.8	48.8	50	50	50
Optional Chain Guard	-	-	X	X	X
2-piece Crank Construction	X	X	X	X	X
Axle Length of BB-UN / ES (mm)	-	-	-	-	-
Chain Case Compatible	-	-	-	X	X
Average Weight	810g (175mm)	-	950g (175mm)	965g (175mm)	940g (175mm)
Note					

Front Chainwheel (MTB) Specifications

Series	SLX	SLX	SLX	SLX	SLX
Model No.	FC-M670	FC-M670	FC-M675	FC-M675	FC-M675
Rear Speeds	10	10	10	10	10
Chainring Combination	42x32x24T	48x36x26T	40x28T	38x26T	38x24T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	104/64	104/64	104/64	104/64
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	-	-	-	-
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	-	-
	175.0mm	X	X	X	X
	177.5mm	-	-	-	-
180.0mm	-	-	-	-	-
Chain	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Bottom Bracket	SM-BB70 SM-BB71-41A	SM-BB70 SM-BB71-41A	SM-BB70 SM-BB71-41A	SM-BB70 SM-BB71-41A	SM-BB70 SM-BB71-41A
Chainline (mm)	50	50	48.8	48.8	48.8
Optional Chain Guard	-	X	-	-	-
2-piece Crank Construction	X	X	X	X	X
Axle Length of BB-UN / ES (mm)	-	-	-	-	-
Chain Case Compatible	-	-	-	-	-
Average Weight	-	-	-	-	-
Note					

Front Chainwheel (MTB) Specifications

Series	SLX	Deore LX	Deore LX	Zee	Zee
Model No.	FC-M665	FC-T671	FC-T671	FC-M640	FC-M645
Rear Speeds	9	10	10	10	10
Chainring Combination	36-22T	48-36-26T	44-32-24T	34/36/38T	34/36/38T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	104/64	104/64	104	104
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	-	-	X	X
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	-	-
	175.0mm	X	X	X	X
	177.5mm	-	-	-	-
180.0mm	-	-	-	-	-
Chain	Super Narrow HG for 9-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed
Bottom Bracket	SM-BB70 SM-BB71-41A	SM-BB70 SM-BB71-41A	SM-BB70 SM-BB71-41A	SM-BB51 SM-BB71-41A	SM-BB51 SM-BB71-41C
Chainline (mm)	46.8	50	50	50.4	57.9
Optional Chain Guard	Bash guard	X	X	-	-
2-piece Crank Construction	X	X	X	X	X
Axle Length of BB-UN / ES (mm)	-	-	-	-	-
Chain Case Compatible	-	X	X	-	-
Average Weight	999g (175mm)	-	-	-	-
Note	**36T and 22T position are same as FC-M660 (triple)	4 arm integrated crank arm W/O CG spec available	4 arm integrated crank arm W/O CG spec available		for 83mm BB shell width

Front Chainwheel (MTB) Specifications

Series	Deore	Deore	Deore	Non-Series	Non-Series
Model No.	FC-M590-10	FC-M591	FC-M590	FC-M552-L	FC-M552-S
Rear Speeds	10	9	9	10	10
Chainring Combination	42-32-24T	44-32-22T 48-36-26T	44-32-22T 48-36-26T	42-32-24T	42-32-24T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	104/64	104/64	104/64	104/64
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	-	-	-	-
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	-	-
	175.0mm	X	X	X	X
	177.5mm	-	-	-	-
180.0mm	-	-	-	-	-
Chain	HG-X 10-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	HG-X 10-speed	HG-X 10-speed
Bottom Bracket	SM-BB51 SM-BB71-41A	SM-BB51	SM-BB51	SM-BB51	SM-BB51
Chainline (mm)	50	50	50	50	50
Optional Chain Guard	-	X	X	-	-
2-piece Crank Construction	X	X	X	X	X
Axle Length of BB-UN / ES (mm)	-	-	-	-	-
Chain Case Compatible	-	X	-	-	-
Average Weight	-	-	-	-	-
Note					

Front Chainwheel (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	FC-T551	FC-T551	FC-T551	FC-T551	FC-M543-LK
Rear Speeds	10	10	10	10	9
Chainring Combination	44-32-24T	44-32-24T	48-36-26T	48-36-26T	44-32-22T 48-36-26T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	104/64	104/64	104/64	104/64
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	-	-	-	-
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	-	-
	175.0mm	X	X	X	X
	177.5mm	-	-	-	-
180.0mm	-	-	-	-	-
Chain	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	Super Narrow HG for 9-speed
Bottom Bracket	SM-BB51	SM-BB51	SM-BB51	SM-BB51	SM-BB50
Chainline (mm)	50	50	50	50	50
Optional Chain Guard	X	X	X	X	X
2-piece Crank Construction	X	X	X	X	X
Axle Length of BB-UN / ES (mm)	-	-	-	-	-
Chain Case Compatible	X	X	X	X	X
Average Weight	-	-	-	-	-
Note					SHIMANO Logo

Front Chainwheel (MTB) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	FC-M543-SK	FC-M542	FC-M542	FC-M522	FC-M522
Rear Speeds	9	9	9	10	10
Chainring Combination	44-32-22T 48-36-26T	44-32-22T	44-32-22T	42-32-24T	42-32-24T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	104/64	104/64	104/64	104/64
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	-	-	-	-
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	-	-
	175.0mm	X	X	X	X
	177.5mm	-	-	-	-
180.0mm	-	-	-	-	-
Chain	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	HG-X 10-speed	HG-X 10-speed
Bottom Bracket	SM-BB50	SM-BB50 SM-BB71-41A	SM-BB50 SM-BB71-41A	BB-ES25	BB-ES25
Chainline (mm)	50	50	50	50	50
Optional Chain Guard	X	X	X	-	-
2-piece Crank Construction	X	X	X	-	-
Axle Length of BB-UN / ES (mm)	-	-	-	113	113
Chain Case Compatible	X	-	-	-	-
Average Weight	-	-	-	-	-
Note	SHIMANO Logo	SHIMANO Logo	SHIMANO Logo		

Front Chainwheel (MTB) Specifications

Series	Non Series	Non Series	Alivio	Alivio	Alivio
Model No.	FC-M521	FC-M521	FC-M430	FC-M430	FC-M431
Rear Speeds	9	9	9	9	9
Chainring Combination	44-32-22T/48-36-26T	44-32-22T/ 48-36-26T	44-32-22T	44-32-22T	44-32-22T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	104/64	104/64	104/64	104/64
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	-	-	-	-
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	-	-
	175.0mm	X	X	X	X
	177.5mm	-	-	-	-
180.0mm	-	-	-	-	-
Chain	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed
Bottom Bracket	BB-ES25-AK / BB-ES25-E	BB-ES25-AK / BB-ES25-E	BB-UN26(-E)	BB-UN26(-E)	BB-UN26(-K)
Chainline (mm)	50	50	50	50	50
Optional Chain Guard	X	X	X	X	X
2-piece Crank Construction	-	-	-	-	-
Axle Length of BB-UN / ES (mm)	121-AK / 121-E*	121-AK / 121-E*	LL113(-E)	LL113(-E)	LL123(-K)
Chain Case Compatible	X	X	-	-	X
Average Weight	-	-	-	-	-
Note	* In case of no chain case used, 68mm shell width: 121 also can be used, 73mm BB shell width : 121 must be	* In case of no chain case used, 68mm shell width: 121 also can be used, 73mm BB shell width : 121 must be	SHIMANO Logo	SHIMANO Logo	SHIMANO Logo

Front Chainwheel (MTB) Specifications

Series	Alivio	Alivio	Alivio	Alivio	Alivio
Model No.	FC-M431	FC-M430-8	FC-M430-8	FC-M430-8	FC-M431-8
Rear Speeds	9	9	9	9	9
Chainring Combination	44-32-22T	44-32-22T	44-32-22T	44-32-22T	44-32-22T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	104/64	104/64	104/64	104/64
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	-	-	-	-
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	-	-
	175.0mm	X	X	X	X
	177.5mm	-	-	-	-
180.0mm	-	-	-	-	-
Chain	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed
Bottom Bracket	BB-UN26(-K)	BB-ES25(-E)	BB-ES25(-E)	BB-ES25(-E)	BB-ES25(-K)
Chainline (mm)	50	50	50	50	50
Optional Chain Guard	X	X	X	X	X
2-piece Crank Construction	-	-	-	-	-
Axle Length of BB-UN / ES (mm)	LL123(-K)	118(-E)	118(-E)	118(-E)	126(-K)
Chain Case Compatible	X	-	-	-	X
Average Weight	-	-	-	-	-
Note	SHIMANO Logo	SHIMANO / ALIVIO Logo	With alloy outer chain ring, SHIMANO Logo	SHIMANO / ALIVIO Logo	SHIMANO / ALIVIO Logo

Front Chainwheel (MTB) Specifications

Series	Alivio	Alivio	Alivio	Alivio	Alivio
Model No.	FC-M431-8	FC-M431	FC-M431	FC-M431-8	FC-M431-8
Rear Speeds	9	9	9	9	9
Chainring Combination	44-32-22T	48-36-26T	48-36-26T	48-36-26T	48-36-26T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	104/64	104/64	104/64	104/64
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	-	-	-	-
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	-	-
	175.0mm	X	X	X	X
	177.5mm	-	-	-	-
180.0mm	-	-	-	-	-
Chain	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed
Bottom Bracket	BB-ES25(-K)	BB-UN26(-K)	BB-UN26(-K)	BB-ES25(-K)	BB-ES25(-K)
Chainline (mm)	50	50	50	50	50
Optional Chain Guard	X	X	X	X	X
2-piece Crank Construction	-	-	-	-	-
Axle Length of BB-UN / ES (mm)	126(-K)	LL123(-K)	LL123(-K)	126(-K)	126(-K)
Chain Case Compatible	X	X	X	X	X
Average Weight	-	-	-	-	-
Note	SHIMANO / ALIVIO Logo	SHIMANO Logo	SHIMANO Logo	SHIMANO / ALIVIO Logo	SHIMANO / ALIVIO Logo

Front Chainwheel (MTB) Specifications

Series	Alivio	Alivio	Alivio	Alivio	Alivio
Model No.	FC-M411	FC-M411	FC-M411	FC-M411	FC-M410
Rear Speeds	8/7	8/7	8/7	8/7	8/7
Chainring Combination	48-38-28T	48-38-28T	42-32-22T	42-32-22T	42-32-22T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	104/64	104/64	104/64	104/64
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	-	-	-	-
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	-	-
	175.0mm	X	X	X	X
	177.5mm	-	-	-	-
180.0mm	-	-	-	-	-
Chain	HG	HG	HG	HG	HG
Bottom Bracket	BB-UN26(-K)	BB-UN26(-K)	BB-UN26(-K)	BB-UN26(-K)	BB-UN26(-E)
Chainline (mm)	50	50	50	50	50
Optional Chain Guard	X	X	X	X	X
2-piece Crank Construction	-	-	-	-	-
Axle Length of BB-UN / ES (mm)	LL123(-K)	LL123(-K)	LL123(-K)	LL123(-K)	LL113(-E)
Chain Case Compatible	X	X	X	X	-
Average Weight	-	-	-	-	-
Note	For chaincase t=1.8mm	For chaincase t=1.8mm	For chaincase t=1.8mm	For chaincase t=1.8mm	

Front Chainwheel (MTB) Specifications

Series	Alivio	Alivio	Acera	Acera	Acera
Model No.	FC-M410	FC-M410-8	FC-M391	FC-M391	FC-M391-8
Rear Speeds	8/7	8/7	9	9	9
Chainring Combination	42-32-22T	42-32-22T	44-32-22T 48-36-26T	44-32-22T 48-36-26T	44-32-22T 48-36-26T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	104/64	104/64	104/64	104/64
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	-	-	-	-
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	-	-
	175.0mm	X	X	X	X
	177.5mm	-	-	-	-
180.0mm	-	-	-	-	-
Chain	HG	HG	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed
Bottom Bracket	BB-UN26(-E)	BB-ES25(-E)	BB-UN26(-K)	BB-UN26(-K)	BB-ES25(-K)
Chainline (mm)	50	50	50	50	50
Optional Chain Guard	X	X	X	X	X
2-piece Crank Construction	-	-	-	-	-
Axle Length of BB-UN / ES (mm)	LL113(-E)	118(-E)	LL123(-K)	LL123(-K)	126(-K)
Chain Case Compatible	-	-	X	X	X
Average Weight	-	-	-	-	-
Note			SHIMANO Logo	SHIMANO Logo	SHIMANO / ACERA Logo

Front Chainwheel (MTB) Specifications

Series	Acera	Non-Series	Acera	Acera	Acera
Model No.	FC-M391-8	FC-M371	FC-M361	FC-M361	FC-M361
Rear Speeds	9	9	8/7	8/7	8/7
Chainring Combination	44-32-22T 48-36-26T	44-32-22T 48-36-26T	42-32-22T	42-32-22T	48-38-28T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	Riveted	104/64	104/64	104/64
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	-	-	-	-
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	-	-
	175.0mm	X	X	X	X
	177.5mm	-	-	-	-
180.0mm	-	-	-	-	-
Chain	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	HG	HG	HG
Bottom Bracket	BB-ES25(-K)	BB-UN26(-K)	BB-UN26(-K)	BB-UN26(-K)	BB-UN26(-K)
Chainline (mm)	50	50	50	50	50
Optional Chain Guard	X	X	X	X	X
2-piece Crank Construction	-	-	-	-	-
Axle Length of BB-UN / ES (mm)	126(-K)	LL123(-K)	LL123(-K)	LL123(-K)	LL123(-K)
Chain Case Compatible	X	X	X	X	X
Average Weight	-	-	-	-	-
Note	SHIMANO / ACERA Logo	SHIMANO logo			

Front Chainwheel (MTB) Specifications

Series	Acera	Acera	Acera	Altus	Altus
Model No.	FC-M361	FC-M361-8	FC-M361-8	FC-M311	FC-M311
Rear Speeds	8/7	8/7	8/7	8/7	8/7
Chainring Combination	48-38-28T	42-32-22T	42-32-22T	42-32-22T	42-32-22T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	104/64	104/64	Riveted	Riveted
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	-	-	-	-
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	-	-
	175.0mm	X	X	X	X
	180.0mm	-	-	-	-
Chain	HG	HG	HG	HG	HG
Bottom Bracket	BB-UN26(-K)	BB-ES25(-K)	BB-ES25(-K)	BB-UN26(-K)	BB-UN26(-K)
Chainline (mm)	50	50	50	50	50
Optional Chain Guard	X	X	X	X	X
2-piece Crank Construction	-	-	-	-	-
Axle Length of BB-UN / ES (mm)	LL123(-K)	126(-K)	126(-K)	LL123(-K)	LL123(-K)
Chain Case Compatible	X	X	X	X	X
Average Weight	-	-	-	-	-
Note					

Front Chainwheel (MTB) Specifications

Series	Altus	Altus	Altus	Non-Series	Non-Series
Model No.	FC-M311	FC-M311	FC-M311-8	FC-M171-A	FC-M171
Rear Speeds	8/7	8/7	8/7	8/7/6	8/7/6
Chainring Combination	48-38-28	48-38-28	42-32-22T	48-38-28T	48-38-28T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	Riveted	Riveted	Riveted	Riveted	Riveted
Crank Arm Length	160.0mm	-	-	-	-
	165.0mm	-	-	-	-
	167.5mm	-	-	-	-
	170.0mm	X	X	X	X
	172.5mm	-	-	-	-
	175.0mm	X	X	X	X
	177.5mm	-	-	-	-
180.0mm	-	-	-	-	-
Chain	HG	HG	HG	HG/UG	HG/UG
Bottom Bracket	BB-UN26(-K)	BB-UN26(-K)	BB-ES25(-K)	BB-UN26(-K)	BB-UN26(-K)
Chainline (mm)	50	50	50	47.5 / 47.5+t	47.5 / 47.5+t
Optional Chain Guard	X	X	X	X	X
2-piece Crank Construction	-	-	-	-	-
Axle Length of BB-UN / ES (mm)	LL123(-K)	LL123(-K)	126(-K)	D-NL D-NL K	D-NL D-NL K
Chain Case Compatible	X	X	X	X	X
Average Weight	-	-	-	-	-
Note					

Front Chainwheel (MTB) Specifications

Series	Non-Series	Non series	Non series
Model No.	FC-M171	FC-M131	FC-M131
Rear Speeds	8/7/6	8/7/6	8/7/6
Chainring Combination	42-34-24T	42-34-24T	48-38-28T
Spider or Gear Arm	4arm	4arm	4arm
PCD (mm)	Riveted	Riveted	Riveted
Crank Arm Length	160.0mm	-	-
	165.0mm	-	-
	167.5mm	-	-
	170.0mm	X	X
	172.5mm	-	-
	175.0mm	X	-
	177.5mm	-	-
180.0mm	-	-	-
Chain	HG/UG	HG/UG	HG/UG
Bottom Bracket	BB-UN26(-K)	BB-UN26(-K)	BB-UN26(-K)
Chainline (mm)	47.5 / 47.5+t	47.5 / 47.5+t	47.5 / 47.5+t
Optional Chain Guard	X	X	X
2-piece Crank Construction	-	-	-
Axle Length of BB-UN / ES (mm)	D-NL D-NL K	D-NL D-NL K	D-NL D-NL K
Chain Case Compatible	X	X	X
Average Weight	-	-	-
Note			

Bottom Bracket (MTB Octalink, Square type) Specifications

Model No.			BB-ES25	BB-ES25-E	BB-ES25-AK	BB-UN55	BB-UN26	BB-UN26-E	BB-UN26-K	
Cartridge Type BB /E-type			-	X	-	-	-	X	-	
For Chain Case			-	-	X	-	-	-	X	
Spindle	Hollow Pipe		X	X	X	-	-	-	-	
	Splined Spindle		X	X	X	-	-	-	-	
Axle Length	Hollowtech II	83mm (BC1.37)	-	-	-	-	-	-	-	
		68mm (BC1.37)	-	-	-	-	-	-	-	
		73mm (BC1.37)	-	-	-	-	-	-	-	
	MM110	68mm (BC1.37)	-	-	-	X	X*	1	X	X
		70mm (M36)	-	-	-	X	X	-	-	-
		73mm (BC1.37)	-	-	-	X	X	-	-	-
	LL113	68mm (BC1.37)	-	-	-	X	X*	1	X	-
		70mm (M36)	-	-	-	X	X	-	-	-
		73mm (BC1.37)	-	-	-	X	X	-	X	-
	113	68mm (BC1.37)	X	X	-	-	-	-	-	-
		70mm (M36)	X	-	-	-	-	-	-	-
		73mm (BC1.37)	X	-	-	-	-	-	-	-
	YL117	68mm (BC1.37)	-	-	-	-	-	X* (CL:47.5)	X* (CL:47.5)	X* (CL:47.5)
		-	-	-	-	-	-	X (CL:45)	-	-
	117.5	68mm (BC1.37)	-	-	-	-	-	X	-	X
	118	68mm (BC1.37)	X	X	-	-	-	-	-	-
		70mm (M36)	X	-	-	-	-	-	-	-
		73mm (BC1.37)	X	X	-	-	-	-	-	-
	XL118	68mm (BC1.37)	-	-	-	X	-	-	-	-
		70mm (M36)	-	-	-	X	-	-	-	-
		73mm (BC1.37)	-	-	-	X	-	-	-	-
	121	68mm (BC1.37)	X	X	X*	-	-	-	-	-
		70mm (M36)	-	-	-	-	-	-	-	-
		73mm (BC1.37)	X	X	-	-	-	-	-	-
	126	68mm (BC1.37)	X	X	-	-	-	-	-	-
		70mm (M36)	-	-	-	-	-	-	-	-
		73mm (BC1.37)	X	X	-	-	-	-	-	-
	D-NL (122.5mm)	68mm (BC1.37)	-	-	-	X	X*	-	-	X*
		70mm (M36)	-	-	-	X	-	-	-	-
		73mm (BC1.37)	-	-	-	X	-	-	-	-
D-EL (127.5mm)	68mm (BC1.37)	-	-	-	X	X*	-	-	-	
	70mm (M36)	-	-	-	-	-	-	-	-	
	73mm (BC1.37)	-	-	-	-	-	-	-	-	
LL123	68mm (BC1.37)	-	-	-	-	X	X	X	X (t=1.8)	
	70mm (M36)	-	-	-	-	X	-	-	-	
	73mm (BC1.37)	-	-	-	-	-	X	-	-	
123SP	68mm (BC1.37)	-	-	-	-	X	-	-		
130	68mm (BC1.37)	-	-	-	-	X	-	-		
Note					* with 1.8mm spacer version also available for FC-M521		*w/FixingBolts	*w/FixingBolts	*w/FixingBolts	

Freehub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series	DXR	Deore XT	Deore LX	Deore	Non-Series
Model No.	FH-MX71	FH-T780	FH-T670	FH-M590	FH-M430
Spoke Holes	24H	-	-	-	-
	28H	-	-	-	-
	32H	X	X	X	X
	36H	X	X	X	X
	40/48H	-	-	-	-
PCD (mm)	45	44/45 (L/R)	45	45	45
Freehub Body	Speeds	1	8/9/10	8/9/10	8/9
O.L.D. (mm)	112	135	135	135	135
Flange Diameter (mm)	53.8	52.8/ 53.8 (L/R)	53.8	53.8	53.8
Flange Distance (mm)	57.4	57.4	59.2	59.2	59.2
Dish (mm)	0	6.6	7.6	7.8	7.8
Axle (QR Type)	QR Skewer Length (mm)	-	168/173	168/173	168/173
	Length (mm)	-	146mm(M10)	146mm(M10)	146mm(M10)
Axle (Nut Type)	Length (mm)	-	-	-	-
Weight*	448g (w/ fixing bolt)	338g	365g	-	-

*w/o axle, QR nor lockring

Freehub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	FH-RM70	FH-RM30-8-QR	FH-RM30-8-NT	FH-RM30-7-QR	FH-RM30-7-NT
Spoke Holes	24H	-	-	-	-
	28H	-	-	-	-
	32H	X	X	X	-
	36H	X	X	X	X
	40/48H	-	-	-	-
Freehub Body	PCD (mm)	45	45	45	45
	Speeds	8/9	8/9	8/9	7
	O.L.D. (mm)	135	135	135	130/135
	Flange Diameter (mm)	53.8	53.8	53.8	53.8
	Flange Distance (mm)	59.2	59.2	59.2	59.2
	Dish (mm)	7.5	7.7	7.7	135:5.5
Axle (QR Type)	QR Skewer Length (mm)	166/170	166/170	-	166/170
	Length (mm)	146(M10)	146(M10)	-	141/146(M10)
Axle (Nut Type)	Length (mm)	-	-	185mm(M10)	180/185mm(M10)
	Weight*	-	-	-	-

*w/o axle, QR nor lockring

Freehub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series	XTR	XTR	SAINT	SAINT	SAINT	
Model No.	FH-M985	FH-M988	FH-M820	FH-M825	FH-M828	
Spoke Holes	24H	-	-	-	-	
	28H	-	-	-	-	
	32H	X	X	X	X	
	36H	-	-	X	X	
	40/48H	-	-	-	-	
	PCD (mm)	44/45(L/R)	44/45(L/R)	44/45	44/45	44/45
Freehub Body	Speeds	9/10	9/10	8/9/10	8/9/10	
O.L.D. (mm)		135	142	135	150	142
Flange Diameter (mm)		52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)
Flange Distance (mm)		57.4	57.4	57.4	72.4	57.4
Dish (mm)		6.6	6.6	6.4	6.6	6.4
Axle (QR Type)	QR Skewer Length (mm)	168/173	-	-	-	-
	Length (mm)	146(M10)	-	-	-	-
Center Lock Rotor Mount		X	X	X	X	X
6bolt (PCD 44mm)		-	-	-	-	-
Weight*		261g	310g	347g (φ10) 333g (φ12)	348g	336g

*w/o axle, QR nor lockring

Freehub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series		Deore XT	Deore XT	Deore XT	SLX	SLX
Model No.		FH-M785	FH-M788	FH-M756	FH-M675	FH-M678
Spoke Holes	24H	-	-	-	-	-
	28H	-	-	-	-	-
	32H	X	X	X	X	X
	36H	X	-	X	X	-
	40/48H	-	-	-	-	-
	PCD (mm)	44/45	44/45	61	44/45	44/45
Freehub Body	Speeds	9/10	9/10	9/10	9/10	9/10
O.L.D. (mm)		135	142	135	135	142
Flange Diameter (mm)		52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)	70.6	52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)
Flange Distance (mm)		57.4	57.4	57.1	57.4	57.4
Dish (mm)		6.6	6.4	6.8		
Axle (QR Type)	QR Skewer Length (mm)	168/173	-	168/173	168/173	-
	Length (mm)	146	-	146(M10)	146(M10)	-
Center Lock Rotor Mount		X	X	-	X	X
6bolt (PCD 44mm)		-	-	X	-	-
Weight*		330g	357g	426g	384g	357g

*w/o axle, QR nor lockring

Freehub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series		Deore LX	Zee	Zee	Zee
Model No.		FH-T675	FH-M640	FH-M645	FH-M648
Spoke Holes	24H	-	-	-	-
	28H	-	-	-	-
	32H	X	X	X	X
	36H	X	X	X	X
	40/48H	-	-	-	-
	PCD (mm)	44/45(L/R)	44/45(L/R)	44/45(L/R)	44/45(L/R)
Freehub Body	Speeds	8/9/10	8/9/10	8/9/10	8/9/10
O.L.D. (mm)		135	135	150	142
Flange Diameter (mm)		53.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)	52.8/ 53.8 (L/R)
Flange Distance (mm)		57.4	57.4	72.4	57.4
Dish (mm)		6.6	6.4	6.6	6.4
Axle (QR Type)	QR Skewer Length (mm)	168/173	-	-	-
	Length (mm)	146(M10)	-	-	-
Center Lock Rotor Mount		X	X	X	X
6bolt (PCD 44mm)		-	-	-	-
Weight*		369g	375g (φ10) 350g (φ12)	363g	357g

*w/o axle, QR nor lockring

Freehub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series	Deore	Non-Series	Non-Series	Non-Series	Non-Series	
Model No.	FH-M595	FH-M629	FH-M529	FH-M525	FH-M475	
Spoke Holes	24H	-	-	-	-	
	28H	-	-	-	-	
	32H	X	X	X	X	
	36H	X	-	-	X	
	40/48H	-	-	-	-	
	PCD (mm)	45	44/45(L/R)	61	61	61
Freehub Body	Speeds	9/10	9/10	9/10	9/10	8/9
O.L.D. (mm)		135	135	135	135	135
Flange Diameter (mm)		53.8	52.8/53.8(L/R)	70.6	70.6	70.6
Flange Distance (mm)		57.4	57.4	57.1	57.1	57.1
Dish (mm)		6.6	6.6	6.8	6.8	6.8
Axle (QR Type)	QR Skewer Length (mm)	168/173	168/173	168/173	168/173	166/170
	Length (mm)	146(M10)	146(M10)	146(M10)	146(M10)	146(M10)
Center Lock Rotor Mount		X	X	-	-	-
6bolt (PCD 44mm)		-	-	X	X	X
Weight*		-	-	-	-	-

*w/o axle, QR nor lockring

Freehub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series		Non-Series	Non-Series	Non-Series
Model No.		FH-M435	FH-RM66	FH-RM35
Spoke Holes	24H	-	-	-
	28H	-	-	-
	32H	X	X	X
	36H	X	X	X
	40/48H	-	-	-
	PCD (mm)	45	45	45
Freehub Body	Speeds	8/9	8/9	8/9
O.L.D. (mm)		135	135	135
Flange Diameter (mm)		53.8	53.8	53.8
Flange Distance (mm)		57.4	57.4	57.4
Dish (mm)		6.6	6.6	6.6
Axle (QR Type)	QR Skewer Length (mm)	168/173	166/170	166/170
	Length (mm)	146(M10)	146(M10)	146(M10)
Center Lock Rotor Mount		X	X	X
6bolt (PCD 44mm)		-	-	-
Weight*		-	-	-

*w/o axle, QR nor lockring

Freehub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series		NEXAVE	Tourney	Non-Series
Model No.		FH-IM70	RH-IM10	FH-IM20
Spoke Holes	24H	-	-	-
	28H	-	-	X
	32H	-	-	-
	36H	X	X	X
	40/48H	-	-	-
	PCD (mm)	45	45	45
O.L.D. (mm)		135	130	134.7
Flange Diameter (mm)		60.0	54	54
Flange Distance (mm)		-	55.1	61.2
Dish (mm)		6.8	5.85	5.85
Note			For 6 or 7-speed multifree wheel	

Front Hub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series		DXR	Deore XT	Deore LX	Deore	Non-Series
Model No.		HB-MX71	HB-T780	HB-T670	HB-M590	HB-M430
Spoke Holes	24H	-	-	-	-	-
	28H	-	-	-	-	-
	32H	X	X	X	X	X
	36H	X	X	X	-	X
	40/48H	-	-	-	-	-
	PCD (mm)	40	40	38	38	38
O.L.D. (mm)		100	100	100	100	100
Flange Diameter (mm)		50.4	50.4	48.4	48.4	48.4
Flange Distance (mm)		74	71.6	71.6	71.6	71.6
Axle (QR Type)	QR Skewer Length (mm)	-	133	133	133	133
	Axle Length (mm)	-	108	108	108(M9)	108(M9)
Radial Lacing		X	X	X	X	X
Weight*		263g (w/ fixing bolt)	153g	161g	-	-

*w/o axle, QR nor lockring

Front Hub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series		Non-Series	Non-Series
Model No.		HB-RM70	HB-RM40
Spoke Holes	24H	-	-
	28H	-	-
	32H	X	X
	36H	X	X
	40/48H	-	-
	PCD (mm)	38	38
O.L.D. (mm)		100	100
Flange Diameter (mm)		48.4	46
Flange Distance (mm)		71.6	71.6
Axle (QR Type)	QR Skewer Length (mm)	133	129/133
	Axle Length (mm)	108(M9)	108(M9)
Radial Lacing		X	-
Weight*		-	-

*w/o axle, QR nor lockring

Front Hub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series		XTR	Deore XT	Deore XT	SLX
Model No.		HB-M985	HB-M785	HB-M756	HB-M675
Spoke Holes	24H	-	-	-	-
	28H	-	-	-	-
	32H	X	X	X	X
	36H	-	X	X	X
	40/48H	-	-	-	-
	PCD (mm)	44/40	44/41 (L/R)	61	44
O.L.D. (mm)		100	100	100	100
Flange Diameter (mm)		52.8/ 50.4 (L/R)	52.8/51.4 (L/R)	70.6	52.8/51.4 (L/R)
Flange Distance (mm)		60.6	60.6	59.4	60.2
Offset (mm)		5.4	6	5.5	5.3
Axle (QR Type)	QR Skewer Length (mm)	133	133	133	133
	Axle Length (mm)	108	108	108(M10)	108
	Diameter (mm)	14	14	10	10
Center Lock Mount Type		X	X	-	X
6bolt (PCD 44mm)		-	-	X	-
Weight*		140g	166g	239g	189g

*w/o axle, QR nor lockring

Front Hub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series		Deore LX	Deore	Non-Series	Non-Series
Model No.		HB-T675	HB-M595	HB-M629	HB-M529
Spoke Holes	24H	-	-	-	-
	28H	-	-	-	-
	32H	X	X	X	X
	36H	X	X	-	-
	40/48H	-	-	-	-
	PCD (mm)	44	44	44	61
O.L.D. (mm)		100	100	100	100
Flange Diameter (mm)		52.8	52.8	52.8	70.6
Flange Distance (mm)		60.2	60.2	60.2	59.2
Offset (mm)		5.3	5.6	5.3	5.7
Axle (QR Type)	QR Skewer Length (mm)	133	133	133	133
	Axle Length (mm)	108	108(M10)	108(M10)	108(M10)
	Diameter (mm)	10	10	10	10
Center Lock Mount Type		X	X	X	-
6bolt (PCD 44mm)		-	-	-	X
Weight*		192g	-	-	-

*w/o axle, QR nor locking

Front Hub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	HB-M525A	HB-M475	HB-M435	HB-RM66
Spoke Holes	24H	-	-	-
	28H	-	-	-
	32H	X	X	X
	36H	X	X	X
	40/48H	-	-	-
	PCD (mm)	61	61	44
O.L.D. (mm)	100	100	100	100
Flange Diameter (mm)	70.6	70.6	52.8	52.8
Flange Distance (mm)	59.4	59.4	60.2	60.2
Offset (mm)	5.5	5.5	5.6	5.5
Axle (QR Type)	QR Skewer Length (mm)	133	133	133
	Axle Length (mm)	108(M10)	108(M10)	108(M10)
	Diameter (mm)	10	10	10
Center Lock Mount Type	-	-	X	X
6bolt (PCD 44mm)	X	X	-	-
Weight*	-	-	-	-

*w/o axle, QR nor locking

Front Hub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series		Non-Series
Model No.		HB-RM35
Spoke Holes	24H	-
	28H	-
	32H	X
	36H	X
	40/48H	-
	PCD (mm)	44
O.L.D. (mm)		100
Flange Diameter (mm)		52.8
Flange Distance (mm)		60.2
Offset (mm)		5.5
Axle (QR Type)	QR Skewer Length (mm)	133
	Axle Length (mm)	108(M10)
	Diameter (mm)	10
Center Lock Mount Type		X
6bolt (PCD 44mm)		-
Weight*		-

*w/o axle, QR nor lockring

Front Hub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series	XTR	SAINT	Deore XT	Deore XT
Model No.	HB-M988	HB-M820	HB-M788	HB-M776
Spoke Holes	24H	-	-	-
	28H	-	-	-
	32H	X	X	X
	36H	-	X	X
	40/48H	-	-	-
	PCD (mm)	44	52	44
Thru axle size (mm)	15	20	15	20
O.L.D. (mm)	100	110	100	110
Flange Diameter (mm)	52.8	59.6	52.8	61.6
Flange Distance (mm)	60.2	61.6	59.8	61.6
Offset (mm)	5.4	5.6	5.3	5.6
Center Lock Mount Type	X	X	X	X
6bolt (PCD 44mm)	-	-	-	-
Weight*	136g	216g	170g	225g
Note				

*w/o axle, QR nor lockring

Front Hub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series	SLX	Zee	Non-Series
Model No.	HB-M678	HB-M640	HB-T708
Spoke Holes	24H	-	-
	28H	-	-
	32H	X	X
	36H	X	X
	40/48H	-	-
	PCD (mm)	44	52
Thru axle size (mm)	15	20	8 (SM-AX60)
O.L.D. (mm)	100	110	100
Flange Diameter (mm)	52.8	59.6	52.8
Flange Distance (mm)	59.8	61.6	60.05
Offset (mm)	5.3	5.6	5.4
Center Lock Mount Type	X	X	X
6bolt (PCD 44mm)	-	-	-
Weight*	190g	228g	168g
Note			8mm E-thru, SHIMANO logo

*w/o axle, QR nor lockring

Front Hub (MTB) Specifications (Standard / Disc Brake / Roller Brake)

Series		NEXAVE	NEXUS
Model No.		HB-IM70	HB-IM40
Type		for hub roller brake	for hub roller brake
Spoke Holes	24H	-	-
	28H	-	-
	32H	-	-
	36H	X	X
	40/48H	-	-
	PCD (mm)	70	52
O.L.D. (mm)		100/105	100
Flange Distance (mm)		56.8	61.5
Offset (mm)		4.2	4.3
Axle (QR Type)	QR Skewer Length (mm)	129/133	-
	Axle Length (mm)	108 (M9)	-
Structure (Braking power)		Hyper	Normal
Modulator Setting		26inch or more	26inch or more

Cassette Sprocket (MTB) Specifications

Series name		XTR	XTR	Deore XT	Deore XT	Deore XT	SAINT
Model No.		CS-M980	CS-M980	CS-M771-10	CS-M771-10	CS-M771-10	CS-HG80-9
Combination	Speed	10	10	10	10	10	9
	10	36*	34*	36*	34*	32*	-
	9	32*	30*	32*	30*	28*	28*
	8	28*	26*	28*	26*	25*	24*
	7	24*	23*	24*	23*	22*	21*
	6	21*	21*	21*	21*	20*	18
	5	19*	19*	19*	19*	18*	16
	4	17	17	17	17	16	14
	3	15	15	15	15	14	13
	2	13	13	13	13	12	12
1	11	11	11	11	11	11	
Group		bk	bJ	bk	bJ	bL	bg
Chain		HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed
Weight		272g	255g	343g	323g	294g	231g

Cassette Sprocket (MTB) Specifications

Series name		Deore LX	SLX	SLX	SLX	SLX	Deore LX
Model No.		CS-HG80-9	CS-HG81-10	CS-HG81-10	CS-HG81-10	CS-HG80-9	CS-HG80-9
Combination	Speed	9	10	10	10	9	9
	10	-	36*	32*	34*	-	-
	9	28*	32*	28*	30*	32*	32*
	8	24*	28*	25*	26*	28*	28*
	7	21*	24	22	23	24*	24*
	6	18	21	20	21	21	21
	5	16	19	18	19	18	18
	4	14	17	16	17	16	16
	3	13	15	14	15	14	14
	2	12	13	12	13	12	12
1	11	11	11	11	11	11	
Group		bg	bk	bL	BJ	ar	ar
Chain		HG 9-speed	HG-X 10-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
Weight		231g	369g	317g	351g	292g	292g

Cassette Sprocket (MTB) Specifications

Series name		SLX	Non-Series	Non-Series	Deore	Deore	Deore
Model No.		CS-HG80-9	CS-HG62-10	CS-HG62-10	CS-HG61-9	CS-HG61-9	CS-HG61-9
Combination	Speed	9	10	10	9	9	9
	10	-	34*	36*	-	-	-
	9	34*	30*	32*	28	32	34
	8	30*	26	28	24	28	30
	7	26*	23	24	21	24	26
	6	23	21	21	18	21	23
	5	20	19	19	16	18	20
	4	17	17	17	14	16	17
	3	15	15	15	13	14	15
	2	13	13	13	12	12	13
	1	11	11	11	11	11	11
Group		au	bj	bk	bg	ar	au
Chain		HG 9-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed	HG 9-speed
Weight		315g	-	451g	-	-	-

Cassette Sprocket (MTB) Specifications

Series name		Non-Series	Alivio	Alivio	Acera	Acera	Non-Series
Model No.		CS-HG61-9	CS-HG50-9	CS-HG50-9	CS-HG30-9	CS-HG30-9	CS-HG20-9
Combination	Speed	9	9	9	9	9	9
	10	-	-	-	-	-	-
	9	36	32	34	32	34	32
	8	32	28	30	28	30	28
	7	28	24	26	24	26	24
	6	24	21	23	21	23	21
	5	21	18	20	18	20	19
	4	18	16	17	16	17	17
	3	16	14	15	14	15	15
	2	14	12	13	12	13	13
1	12	11	11	11	11	11	
Group		bh	ar	au	ar	au	bo
Chain		HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Weight		-	-	-	-	-	-

Cassette Sprocket (MTB) Specifications

Series name		Non-Series	Alivio	Alivio	Alivio	Acera	Acera
Model No.		CS-HG20-9	CS-HG51-8	CS-HG51-8	CS-HG51-8	CS-HG41-8	CS-HG41-8
Combination	Speed	9	8	8	8	8	8
	10	-	-	-	-	-	-
	9	34	-	-	-	-	-
	8	30	28	30	32	30	32
	7	26	24	26	28	26	28
	6	23	21	23	24	23	24
	5	20	19	20	21	20	21
	4	17	17	17	18	17	18
	3	15	15	15	15	15	15
	2	13	13	13	13	13	13
	1	11	11	11	11	11	11
Group		bn	bf	an	aw	an	aw
Chain		HG 9-speed	IG/HG	IG/HG	IG/HG	IG/HG	IG/HG
Weight		-	-	-	-	-	-

Cassette Sprocket (MTB) Specifications

Series name		Acera	Altus	Altus	Altus	Non-Series	Non-Series
Model No.		CS-HG41-8	CS-HG31-8	CS-HG31-8	CS-HG31-8	CS-HG41-7	CS-HG20-7
Combination	Speed	8	8	8	8	7	7
	10	-	-	-	-	-	-
	9	-	-	-	-	-	-
	8	34	30	32	34	-	-
	7	26	26	28	26	28	32
	6	23	23	24	23	24	26
	5	20	20	21	20	21	21
	4	17	17	18	17	18	18
	3	15	15	15	15	15	16
	2	13	13	13	13	13	14
	1	11	11	11	11	11	12
Group		ao	an	aw	ao	ac	bp
Chain		IG/HG	IG/HG	IG/HG	IG/HG	IG/HG	IG/HG
Weight		-	-	-	-	-	-

Cassette Sprocket (MTB) Specifications

Series name		Non-Series	Tourney	Tourney	Tourney	Tourney	Tourney
Model No.		CS-HG20-7	MF-HG37	MF-TZ31-CP	MF-TZ31	MF-TZ21-CP	MF-TZ21
Combination	Speed	7	7	7	7	7	7
	10	-	-	-	-	-	-
	9	-	-	-	-	-	-
	8	-	-	-	-	-	-
	7	28	28	34	34	28	28
	6	24	24	24	24	24	24
	5	21	21	22	22	22	22
	4	18	19	20	20	20	20
	3	16	17	18	18	18	18
	2	14	15	16	16	16	16
	1	12	13	14	14	14	14
Group		bm	bz	-	-	-	-
Chain		IG/HG	HG/UG	HG/UG	HG/UG	HG/UG	HG/UG
Weight		-	-	-	-	-	-

Cassette Sprocket (MTB) Specifications

Series name		Tourney	Tourney	Tourney	Tourney	DXR
Model No.		MF-TZ30-CP	MF-TZ30	MF-TZ20-CP	MF-TZ20	CS-MX66
Combination	Speed	6	6	6	6	Single
	10	-	-	-	-	-
	9	-	-	-	-	-
	8	-	-	-	-	-
	7	-	-	-	-	-
	6	34	34	28	28	-
	5	24	24	24	24	-
	4	21	21	21	21	-
	3	18	18	18	18	-
	2	16	16	16	16	-
	1	14	14	14	14	-
Group		-	-	-	-	-
Chain		HG/UG	HG/UG	HG/UG	HG/UG	1/2" x 3/32"
Weight		-	-	-	-	-

Chain (MTB) Specifications

Series	XTR	XTR / Saint	Deore XT	SLX	SLX	Deore LX
Model No.	CN-M980	CN-7701	CN-HG94	CN-HG74	CN-HG73	CN-HG73
Type	HG-X 10-speed	HG 9-speed	HG-X 10-speed	HG-X 10-speed	HG 9-speed	HG 9-speed
Weight	259g (114links)	-	273g (114links)	273g (114links)	304g (116links)	304g (116links)

Chain (MTB) Specifications

Series	Non-Series	Deore	Altus	Non-Series	Tourney
Model No.	CN-HG54	CN-HG53	CN-HG50	CN-HG40	CN-UG51
Type	HG-X 10speed	HG 9-speed	HG	HG	UG
Weight	273g (114links)	304g (114links)	-	-	-

Rear Derailleur (Road) Specifications

Series	Dura-Ace	ULTEGRA	ULTEGRA	105	105	105	TIAGRA	
Model No.	RD-9000	RD-6700-A	RD-6700-A	RD-5701	RD-5701	RD-5701	RD-4601	
Pulley Cage	SS	SS	GS	SS	GS (Front triple)	GS (Front double)	SS	
Rear Speeds	11	10	10	10	10	10	10	
Max. Front Difference	16T	16T	22T	16T	22T	16T	16T	
Total Capacity	33T	34T	40T	34T	40T	37T	34T	
Low Sprocket	Max.	28T	30T	30T	30T	30T	32T	30T
	Min.	23T	23T	23T	25T	25T	27T	25T
Top Sprocket	Max.	12T	15T	14T	14T	14T	12T	14T
	Min.	11T	11T	11T	11T	11T	11T	11T
Average Weight	158g	-	-	-	-	-	-	

Rear Derailleur (Road) Specifications

Series	TIAGRA	TIAGRA	SORA	SORA	2300	Tourney A070	A050
Model No.	RD-4601	RD-4601	RD-3500	RD-3500	RD-2300	RD-A070	RD-A050
Pulley Cage	GS (Front triple)	GS (Front double)	SS	GS	Smart	Smart	Smart
Rear Speeds	10	10	9	9	8	7	7
Max. Front Difference	22T	16T	16T	20T	22T	16T	14T
Total Capacity	40T	37T	37T	41T	35T	33T	29T
Low Sprocket	Max.	30T	32T	32T	26T	28T	28T
	Min.	25T	27T	25T	21T	28T	28T
Top Sprocket	Max.	14T	12T	14T	13T	14T	14T
	Min.	11T	11T	11T	12T	11T	13T
Average Weight	-	-	-	-	-	-	-

Front Derailleur (Road) Specifications

Series	Dura-Ace	Dura-Ace	Ultegra	Ultegra	Ultegra	Ultegra	Ultegra
Model No.	FD-9000-B	FD-9000-F	FD-6700 G-B	FD-6700 G-F	FD-6703 G-B	FD-6703 G-F	FD-6700-B
Rear Speeds	11	11	10	10	10	10	10
Mount Type	Clamp Band	Brazed-On	Clamp Band	Brazed-On	Clamp Band	Brazed-On	Clamp Band
Chainline (mm)	43.5	43.5	43.5	43.5	45	45	43.5
Clamp Band Diameter (mm)	*(28.6)/31.8/34.9	-	*(28.6)/31.8/34.9	-	*(28.6)/31.8/34.9	-	*(28.6)/31.8/34.9
Top Gear Teeth	50-56T	50-56T	50-56T	50-56T	52T	52T	50-56T
Capacity	16T	16T	16T	16T	22T	22T	16T
Chainstay Angle (deg.)	61-66	61-66	61-66	61-66	63-66	63-66	61-66
Average Weight	78g	66g	104g (L size)	89g	131g (L size)	114g	104g (L size)
Note	*W/Multi Clamp Band		*W/Multi Clamp Band		*W/Multi Clamp Band		*W/Multi Clamp Band

Front Derailleur (Road) Specifications

Series	Ultegra	Ultegra	Ultegra	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	FD-6700-F	FD-6703-B	FD-6703-F	FD-CX70-B-T	FD-CX70-B-D	FD-CX70-F-T	FD-CX70-F-D
Rear Speeds	10	10	10	10	10	10	10
Mount Type	Brazed-On	Clamp Band	Brazed-On	Clamp Band	Clamp Band	Brazed-On	Brazed-On
Chainline (mm)	43.5	45	45	43.5	43.5	43.5	43.5
Clamp Band Diameter (mm)	-	*(28.6)/31.8/34.9	-	*(28.6)/31.8/34.9	*(28.6)/31.8/34.9	-	-
Top Gear Teeth	50-56T	52T	52T	46-52T	46-52T	46-52T	46-52T
Capacity	16T	22T	22T	16T	16T	16T	16T
Chainstay Angle (deg.)	61-66	63-66	63-66	63-66	63-66	63-66	63-66
Average Weight	89g	131g (L size)	114g	108g	103g	92g	87g
Note		*W/Multi Clamp Band		*W/Multi Clamp Band	*W/Multi Clamp Band		

Front Derailleur (Road) Specifications

Series	105	105	105	105	Non-Series	Non-Series	Non-Series
Model No.	FD-5700-B	FD-5700-F	FD-5703-B	FD-5703-F	FD-R440-B	FD-R440-F	FD-R453-B
Rear Speeds	10	10	10	10	9	9	9
Mount Type	Clamp Band	Brazed-On	Clamp Band	Brazed-On	Clamp Band	Brazed-On	Clamp Band
Chainline (mm)	43.5	43.5	45	45	43.5	43.5	45
Clamp Band Diameter (mm)	*(28.6)/31.8/34.9	-	*(28.6)/31.8/34.9	-	28.6/31.8	-	*(28.6)/31.8/34.9
Top Gear Teeth	50-56T	50-56T	50T	50T	50-56T	50-56T	50T
Capacity	16T	16T	20T	20T	16T	16T	20T
Chainstay Angle (deg.)	61-66	61-66	63-66	63-66	61-66	61-66	63-66
Average Weight	105g (L size)	89g	132g (L size)	114g	96g	-	-
Note	*W/Multi Clamp Band		*W/Multi Clamp Band		Designed to work with flat handlebar shifter SL-R660/R440.	Designed to work with flat handlebar shifter SL-R660/R440.	*W/Multi Clamp Band

Front Derailleur (Road) Specifications

Series	Non-Series	TIAGRA	TIAGRA	TIAGRA	TIAGRA	Non-Series	Non-Series
Model No.	FD-R453-F	FD-4600-B	FD-4600-F	FD-4603-B	FD-4603-F	FD-R440A-B	FD-R440A-F
Rear Speeds	9	10	10	10	10	8	8
Mount Type	Brazed-On	Clamp Band	Brazed-On	Clamp Band	Brazed-On	Clamp Band	Brazed-On
Chainline (mm)	45	43.5	43.5	45	45	43.5	43.5
Clamp Band Diameter (mm)	-	*(28.6)/31.8/34.9	-	*(28.6)/31.8/34.9	-	28.6/31.8	-
Top Gear Teeth	50T	50-56T	50-56T	50T	50T	50-53T	50-53T
Capacity	20T	16T	16T	20T	20T	16T	16T
Chainstay Angle (deg.)	63-66	61-66	61-66	63-66	63-66	61-66	61-66
Average Weight	-	-	-	-	-	-	-
Note		*W/Multi Clamp Band		*W/Multi Clamp Band		Designed to work with Flat handlebar shifter SL-R440.	

Front Derailleur (Road) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	SORA
Model No.	FD-R440A-B	FD-R440A-F	FD-R443A-B	FD-R443A-F	FD-R443A-B	FD-R443A-F	FD-3500-B
Rear Speeds	8	8	8	8	8	8	9
Mount Type	Clamp Band	Brazed-On	Clamp Band	Brazed-On	Clamp Band	Brazed-On	Clamp Band
Chainline (mm)	43.5	43.5	45	45	45	45	43.5
Clamp Band Diameter (mm)	28.6/31.8	-	28.6/31.8	-	28.6/31.8	-	*(28.6)/31.8/34.9
Top Gear Teeth	50-53T	50-53T	52T	52T	52T	52T	46-52T
Capacity	16T	16T	22T	22T	22T	22T	16T
Chainstay Angle (deg.)	61-66	61-66	63-66	63-66	63-66	63-66	61-66
Average Weight	-		-		-	-	-
Note	Designed to work with Flat handlebar shifter SL-R440.		Designed to work with Flat handlebar shifter SL-R440.		Designed to work with Flat handlebar shifter SL-R440.	Designed to work with Flat handlebar shifter SL-R440.	*W/Multi Clamp Band

Front Derailleur (Road) Specifications

Series	SORA	SORA	SORA	SORA	SORA	2300	2300
Model No.	FD-3500-F	FD-3503-B	FD-3503-F	FD-3403-B	FD-3403-F	FD-2300-B	FD-2300-F
Rear Speeds	9	9	9	9	9	8	8
Mount Type	Brazed-On	Clamp Band	Brazed-On	Clamp Band	Brazed-On	Clamp Band	Brazed-On
Chainline (mm)	43.5	45	45	45	45	43.5	43.5
Clamp Band Diameter (mm)	-	*(28.6)/31.8/34.9	-	*(28.6)/31.8/34.9	-	*(28.6)/31.8	-
Top Gear Teeth	46-52T	50T	50T	50T	50T	50-53T	50-53T
Capacity	16T	20T	20T	20T	20T	16T	16T
Chainstay Angle (deg.)	61-66	63-66	63-66	63-66	63-66	61-66	61-66
Average Weight	-	-	-	-	-	-	-
Note		*W/Multi Clamp Band		*W/Multi Clamp Band		*W/Multi Clamp Band	

Front Derailleur (Road) Specifications

Series	2300	2300	Tourney A070	A050
Model No.	FD-2303-B	FD-2303-F	FD-A070	FD-A050
Rear Speeds	8	8	7	7
Mount Type	Clamp Band	Brazed-On	Clamp Band	Clamp Band
Chainline (mm)	45	45	43.5	43.5
Clamp Band Diameter (mm)	*(28.6)/31.8	-	*(28.6)/31.8	28.6/31.8
Top Gear Teeth	52T	52T	50T	53T
Capacity	22T	22T	16T	16T
Chainstay Angle (deg.)	63-66	63-66	61-66	61-66
Average Weight	-	-	-	-
Note	*W/Multi Clamp Band		*W/Multi Clamp Band	

Shift / Brake Lever (Road) Specifications

Series		Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	
Model No.		ST-9000	SL-BSR1	ST-7900	SL-7900	SL-BS79	SL-7700	
Lever Type		Dual Control Lever	Bar end Shifter	Dual Control Lever	Down Tube Shifter	Bar end Shifter	Down Tube Shifter	
Shift Lever Specifications	Front speeds	2	2/3	2	2/3	2/3	2/3	
	Rear speeds	11	11	10	10	10	9	
	Flight Deck	With Gear Sensor	X	-	X	-	-	-
		Without Gear Sensor	-	-	-	-	-	-
	Outer Casing	Lever Side	SP41	SP41	SP41	-	SP41	-
		RD Side	SP41 Sealed	SP41 Sealed	SP41 Sealed	SP41 Sealed	SP41 Sealed	SP41 Sealed
	Stainless Cable	X (New smoother cable)	X (New smoother cable)	X (PTFE)	X(PTFE)	X(PTFE)	X	
Clamp Band (mm)	-	-	-	-	-	-		
Brake Lever Specifications	Reach Adjust	X	-	X	-	-	-	
	Clamp Band (mm)	23.8/24.2	-	23.8/24.2	-	-	-	
	Compatibility	-	-	New SUPER SLR	-	-	-	
Average Weight		365g	153g	379g	63g	153g	-	
Note								


Shift / Brake Lever (Road) Specifications

Series		Dura-Ace	Ultegra	Ultegra	Ultegra	Non-Series	105	
Model No.		SL-BS77	ST-6700	ST-6703	SL-BS64-8	BL-R600	ST-5700-S/L	
Lever Type		Bar end Shifter	Dual Control Lever	Dual Control Lever	Bar end Shifter	Brake Lever	Dual Control Lever	
Shift Lever Specifications	Front speeds	2/3	2	3	2/3	-	2	
	Rear speeds	9	10	-	8	-	10	
	Flight Deck	With Gear Sensor	-	X	X	-	-	-
		Without Gear Sensor	-	-	-	-	-	-
	Outer Casing	Lever Side	SP41	SP41	SP41	SP41	-	SP41
		RD Side	SP41 Sealed	SP41 Sealed	-	SP41 Sealed	-	SP41 Sealed
	Stainless Cable	X	X (PTFE)	X (PTFE)	X	-	X (PTFE)	
Clamp Band (mm)	-	-	-	-	-	-		
Brake Lever Specifications	Reach Adjust	-	Spacer Use	Spacer Use	-	-	Spacer Use	
	Clamp Band (mm)	-	23.8/24.2	23.8/24.2	-	23.8/24.2	23.8/24.2	
	Compatibility	-	New SUPER SLR	New SUPER SLR	-	SUPER SLR	New SUPER SLR	
Average Weight		-	447g	460g	-	-	490g	
Note								

Shift / Brake Lever (Road) Specifications

Series		105	TIAGRA	TIAGRA	TIAGRA	TIAGRA	TIAGRA	
Model No.		ST-5703-S/L	ST-4600	ST-4603	SL-4600	SL-4603	BL-4600	
Lever Type		Dual Control Lever	Dual Control Lever	Dual Control Lever	Rapidfire Plus	Rapidfire Plus	Brake Lever	
Shift Lever Specifications	Front speeds	3	2	3	2	3	-	
	Rear speeds	-	10	-	10	-	-	
	Flight Deck	With Gear Sensor	-	-	-	-	-	-
		Without Gear Sensor	-	-	-	-	-	-
	Outer Casing	Lever Side	SP41	SP41	SP41	SP41	SP41	-
		RD Side	-	SP41 Sealed	-	SP41 Sealed	-	-
	Stainless Cable	X (PTFE)	X	X	X	X	X	-
Clamp Band (mm)	-	-	-	22.2	22.2	-	-	
Brake Lever Specifications	Reach Adjust	Spacer Use	Spacer Use	Spacer Use	-	-	Screw Adjust	
	Clamp Band (mm)	23.8/24.2	23.8/24.2	23.8/24.2	-	-	22.2	
	Compatibility	New SUPER SLR	New SUPER SLR	New SUPER SLR	-	-	New SUPER SLR/ MTB V-BRAKE	
Average Weight		507g	258g	251g	138g	138g	176g	
Note			Integrated Cable Adjuster available	Integrated Cable Adjuster available			Compatible with V-BRAKE/Caliper/Canti/Road disc brake	

Shift / Brake Lever (Road) Specifications

Series		Non-Series	Non-Series	Non-Series	SORA	SORA	SORA	
Model No.		ST-R500	SL-R400	BL-R400	ST-3500	ST-3503	SL-3500	
Lever Type		Dual Control Lever	Down Tube Shifter	Brake Lever	Dual Control Lever	Dual Control Lever	Rapidfire Plus	
Shift Lever Specifications	Front speeds		2/3	2/3	-	2	3	2
	Rear speeds		8	8	-	9	-	9
	Flight Deck	With Gear Sensor	X	-	-	-	-	-
		Without Gear Sensor	-	-	-	-	-	-
	Outer Casing	Lever Side	SP41	-	-	SP41	SP41	SP41
		RD Side	SP41 Sealed	SP41 Sealed	-	SP41 Sealed	-	SP41 Sealed
	Stainless Cable		X	X	-	X	X	X
Clamp Band (mm)		-	-	-	-	-	22.2	
Brake Lever Specifications	Reach Adjust		-	-	-	Spacer Use	Spacer Use	-
	Clamp Band (mm)		23.8 /24.2	-	23.8 /24.2	23.8/24.2	23.8/24.2	-
	Compatibility		SUPER SLR 	-	-	New SUPER SLR	New SUPER SLR	-
Average Weight		-	-	-	-	-	-	
Note					Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE Integrated Cable Adjuster available	Compatible with Caliper/Canti /Road disc brake Not compatible with V-BRAKE/ Compact V-BRAKE Integrated Cable Adjuster available		

Shift / Brake Lever (Road) Specifications

Series		SORA	SORA	2300	2300	Tourney A070	A050	
Model No.		SL-3503	BL-3500	ST-2300	ST-2303	ST-A070	SL-A050-7R	
Lever Type		Rapidfire Plus	Brake Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	Handle Bar Mount Shifter	
Shift Lever Specifications	Front speeds	3	-	2	3	2	-	
	Rear speeds	-	-	8	-	7	7	
	Flight Deck	With Gear Sensor	-	-	-	-	-	-
		Without Gear Sensor	-	-	-	-	-	-
	Outer Casing	Lever Side	SP41	-	SP40	SP40	SIS40	SIS40
		RD Side	-	-	SP40 Sealed	-	SIS40	SIS40
	Stainless Cable	X	-	X	X	Option	-	
Clamp Band (mm)	22.2	-	-	-	-	25.6		
Brake Lever Specifications	Reach Adjust	-	X	Spacer Use	Spacer Use	Screw	-	
	Clamp Band (mm)	-	-	23.8 / 24.2	23.8 / 24.2	23.8 / 24.2	-	
	Compatibility	-	New SUPER SLR/ MTB V-BRAKE	SUPER SLR	SUPER SLR	SUPER SLR	-	
Average Weight		-	-	-	-	-	-	
Note			Noiseless Bumper stop Including Compatible with V-BRAKE/Caliper/Canti/Road disc brake Not compatible with Roller Brake					

Shift / Brake Lever (Road) Specifications

Series		A050	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	
Model No.		SL-A050-LN	SL-SY20A-6-STEM	SL-SY20A-7-STEM	SL-SY20A-6-D	SL-SY20A-7-D	SL-SY20A-6-D/BAND	
Lever Type		Handle Bar Mount Shifter	Stem Mount Shifter	Stem Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter	
Shift Lever Specifications	Front speeds	2 (Friction)	2 (Friction)	2 (Friction)	2 (Friction)	2 (Friction)	2 (Friction)	
	Rear speeds	-	6	7	6	7	6	
	Flight Deck	With Gear Sensor	-	-	-	-	-	-
		Without Gear Sensor	-	-	-	-	-	-
	Outer Casing	Lever Side	SIS40	SIS40	SIS40	SIS40	SIS40	SIS40
		RD Side	-	SIS40	SIS40	SIS40	SIS40	SIS40
	Stainless Cable	-	-	-	-	-	-	-
Clamp Band (mm)	25.6	22.2	22.2	22.2	22.2	22.2	28.6	
Brake Lever Specifications	Reach Adjust	-	-	-	-	-	-	
	Clamp Band (mm)	-	-	-	-	-	-	
	Compatibility	-	-	-	-	-	-	
Average Weight		-	-	-	-	-	-	
Note					Brazed On Type	Brazed On Type	Band Type	

Shift / Brake Lever (Road) Specifications

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	
Model No.		SL-SY20A-7-D/BAND	SL-R780	SL-R783-L	BL-R780	BL-R770	BL-R550-S	
Lever Type		Down Tube Mount Shifter	Rapidfire Plus	Rapidfire Plus	Brake Lever	Brake Lever	Brake Lever	
Shift Lever Specifications	Front speeds	2 (Friction)	2	3	-	-	-	
	Rear speeds	7	10	-	-	-	-	
	Flight Deck	With Gear Sensor	-	-	-	-	-	-
		Without Gear Sensor	-	-	-	-	-	-
	Outer Casing	Lever Side	SIS40	SP41	SP41	-	-	-
		RD Side	SIS40	SP41 Sealed	-	-	-	-
Stainless Cable		-	X	X	-	-	-	
Clamp Band (mm)		28.6	22.2	22.2	-	-	-	
Brake Lever Specifications	Reach Adjust	-	-	-	Screw Adjust	Screw Adjust	Screw Adjust	
	Clamp Band (mm)	-	-	-	22.2	22.2	22.2	
	Compatibility	-	-	-	-	SUPER SLR	SUPER SLR	
Average Weight		-	129g	129g	129g	-	-	
Note		Band Type	For flat handle bar	For flat handle bar	For flat handle bar For Caliper/Canti/Road disc brake	For Caliper/Canti/Roller/Road disc brake Not compatible with V-BRAKE/Compact V-BRAKE	For Caliper/Canti/Road disc brake Not compatible with V-BRAKE/Compact V-BRAKE	

Shift / Brake Lever (Road) Specifications

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.		BL-R550-L	SL-R440	SL-R440-L	SL-R440-8	SL-R440-8-L	ST-R221
Lever Type		Brake Lever	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	EZ-fire Plus
Shift Lever Specifications	Front speeds		-	2/3	2/3	2/3	2
	Rear speeds		-	9	9	8	8
	Flight Deck	With Gear Sensor	-	-	-	-	-
		Without Gear Sensor	-	*1	*1	*1	*1
	Outer Casing	Lever Side	-	SP41	SP41	SP41	SP41
		RD Side	-	SP41 Sealed	SP41 Sealed	SP41 Sealed	SP41 Sealed
	Stainless Cable		-	X	X	X	X
Clamp Band (mm)		-	22.2	22.2	22.2	22.2	
Brake Lever Specifications	Reach Adjust		Screw Adjust	-	-	-	X
	Clamp Band (mm)		22.2	-	-	-	22.2
	Compatibility		SUPER SLR	-	-	-	SUPER SLR
Average Weight		-	-	-	-	-	-
Note		For Caliper/Canti/Road disc brake Not compatible with V-BRAKE/Compact V-BRAKE	For flat handlebar Left:SL-R441	For flat handlebar Black version Left:SL-R441-L	For flat handlebar Left:SL-R441	For flat handlebar Black version Left:SL-R441-L	For flat handlebar Compatible with V-BRAKE/Canti/Caliper and Disc brake

Shift / Brake Lever (Road) Specifications

Series		Non-Series	Non-Series	Non-Series	Non-Series	Dura-Ace	
Model No.		ST-R221-L	ST-R225	ST-R225-L	BL-TT78	BL-TT79	
Lever Type		EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	Brake Lever	Brake Lever	
Shift Lever Specifications	Front speeds	2	3	3	-	-	
	Rear speeds	8	-	-	-	-	
	Flight Deck	With Gear Sensor	-	-	-	-	-
		Without Gear Sensor	-	-	-	-	-
	Outer Casing	Lever Side	SP40	SP40	SP40	-	-
		RD Side	SP40 Sealed	-	-	-	-
	Stainless Cable	-	-	-	-	-	
Clamp Band (mm)	-	-	-	-	-		
Brake Lever Specifications	Reach Adjust	X	X	X	X	X	
	Clamp Band (mm)	22.2	22.2	22.2	*2	*2	
	Compatibility	SUPER SLR	SUPER SLR	SUPER SLR	SUPER SLR	New SUPER SLR	
Average Weight		-	-	-	-	-	
Note		For flat handlebar	Front Lever W/Trim For flat handlebar	Front Lever W/Trim; Black version For flat handlebar	*2 : Fixiation structure is expanding plug clamp, handle bar inside diameter : 19.0-22.5 dim, handle bar outside diameter : 22.2-24.0 dim.		
		Compatible with V-BRAKE/Canti/Caliper and Disc brake	Compatible with V-BRAKE/Canti/Caliper and Disc brake	Compatible with V-BRAKE/Canti/Caliper and Disc brake			

Brake (Road) Specifications

Series		Dura-Ace	Dura-Ace	Dura-Ace	Ultegra	Ultegra
Model No.		BR-9000	BR-9010-F	BR-9010-R	BR-6700 G	BR-6700
Type		SLR EVO Dual Pivot	Direct mount type	Direct mount type	Super SLR Dual Pivot	Super SLR Dual Pivot
Reach (mm)		49	49	-	49	49
Brake Shoe	Standard	R55C4	R55C4	R55C4	R55C3	R55C3
	Optional Choice	R55C4 for Carbon rim, R55C4-1 for Carbon rim (28C wide carbon rim with BR-9010-R)	R55C4 for Carbon rim, R55C4-1 for Carbon rim (28C wide carbon rim with BR-9010-R)	R55C4 for Carbon rim, R55C4-1 for Carbon rim (28C wide carbon rim with BR-9010-R)	R55C for ceramic rim R55C3 for carbon rim	R55C for ceramic rim R55C3 for carbon rim
Compatibility		-	-	-	New SUPER SLR	New SUPER SLR
Assembly Pivot Nut (mm)		10.5/ 12.5/18.0 / 25.0/32.0	-	-	10.5 / 12.5 / 18.0 / 27.0/32.0	10.5 / 12.5 / 18.0 / 27.0/32.0
Cartridge Shoe Holder		X	X	X	X	X
Average Weight		148g	157g	150g	317g	317g

Brake (Road) Specifications

Series		105	Non-Series	TIAGRA	SORA	SORA
Model No.		BR-5700-S/L	BR-R561 (S) / (L)	BR-4600	BR-3500	BR-3400
Type		Super SLR Dual Pivot	Super SLR Dual Pivot	Super SLR Dual Pivot	Super SLR Dual Pivot	Super SLR Dual Pivot
Reach (mm)		49	49	49	49	49
Brake Shoe	Standard	R55C3	R55C3	R50T2	R50T2	R50T2
	Optional Choice	R55C for ceramic rim R55C3 for carbon rim	R55C for carbon rim R55C for ceramic rim	-	-	-
Compatibility		New SUPER SLR	New SUPER SLR	New SUPER SLR	New SUPER SLR	Super SLR
Assembly Pivot Nut (mm)		10.5 / 12.5 / 18.0 / 27.0/32.0	10.5/ 12.5/ 18.0/27.0	10.5/ 12.5/ 18.0/ 27.0	10.5 / 12.5 / 18.0 / 27.0	10.5 / 12.5 / 18.0 / 27.0
Cartridge Shoe Holder		X	X	-	-	-
Average Weight		358g	-	-	-	-

Brake (Road) Specifications

Series		Non-Series	Non-Series
Model No.		BR-R650	BR-R451
Type		Super SLR Dual Pivot	Super SLR Dual Pivot
Reach (mm)		57	57
Brake Shoe	Standard	R55C2	R50T2
	Optional Choice	R55C for carbon rim R55C for ceramic rim	-
Compatibility		New SUPER SLR	New SUPER SLR
Assembly Pivot Nut (mm)		10.5 / 12.5 / 18.0 / 27.0	10.5/12.5/18.0/27.0
Cartridge Shoe Holder		X	-
Average Weight		-	-

Brake (Canti lever brake) Specifications

Series		Non-Series	Non-Series
Model No.		BR-CX70	BR-CX50
Type		Canti lever	Canti lever
Reach		-	-
Brake Shoe	Standard	R55C+1	R50T2
	Optional Choice	R55C3 R55C3 for carbon rim	-
Compatibility		New SUPER SLR	New SUPER SLR
Assembly Pivot Nut (mm)		-	-
Cartridge Shoe Holder		X	-
Average Weight		165g	175g
Note		Cyclecross usage	Cyclecross usage

Brake (V-BRAKE) Specifications

Series		Non-Series	Non-Series	Non-Series
Model No.		BR-R573	BR-R463	BR-R353
Brake Type		V-BRAKE	V-BRAKE	V-BRAKE
Compatibility		MTB V-BRAKE	MTB V-BRAKE	MTB V-BRAKE
Link Wire		-	-	-
Reinforced Link		-	-	-
Parallel Link		-	-	-
Power Modulator		-	-	-
Linear Spring		X	X	X
Brake Shoe Type	Standard	M70R2	S70C	S70T
	Option 1	M70CT4	M70CT4	M70T4
	Option 2	S70C	-	-
Arch Size (mm)		90	90	90
Fixing Bolt Length (mm)		16 / 25	16 / 25	16 / 25
Sleeve & Bushing Type		X	X	X
Lead Pipe Angle		45/90/135	45/90/135	45/90/135
Cartridge Shoe Holder		X	X	-
Note		SHIMANO logo	SHIMANO logo	SHIMANO logo

Brake (Disc-brake) Specifications

Series		Non-Series	Non-Series
Model No.		BR-CX75	BR-R515
Brake Type		Mechanical Disc-brake	Mechanical Disc-brake
Compatibility		New SUPER SLR	New SUPER SLR
Recommended Brake Lever		ST-6700	ST-4600/5700
Recommended Brake Rotor		SM-RT81/86	SM-RT64/RT66
Mount Type (available for IS mount with mount adapter)		Post-type	Post-type
PAD	Standard	G01A Resin	G01S Resin
	Option	G03Ti	-
Cable		M system	SLR Brake
Note		Cyclecross usage	SHIMANO logo

Front Chainwheel (Road) Specifications

Series		Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	ULTEGRA
Model No.		FC-9000	FC-7900	FC-7950	FC-7710	FC-6700 G
Rear Speeds		11	10	10	Single	10
Chainring Combination		50-34T 52-36T 52-38T 53-39T 54-42T 55-42T	53-42T 52-39T 53-39T 54-42T 55-42T 56-44T	50-34T	45T>>55T (1/2"X1/8") 45T>>55T (1/2"X3/32")	52-39T 53-39T
PCD (mm)		110	130	110	144	130
Crank Arm Length	160.0mm	-	-	-	-	-
	162.5mm	-	-	-	-	-
	165.0mm	X	X	X	X	X
	167.5mm	X	X	X	X	-
	170.0mm	X	X	X	X	X
	172.5mm	X	X	X	X	X
	175.0mm	X	X	X	X	X
	180.0mm	X	X	X	-	-
Chain		Super Narrow HG EVO for 11-speed	Super Narrow HG for 10-speed	Super Narrow HG for 10-speed	1/2"X1/8" 1/2"X3/32"	Supre Narrow HG for 10-speed
Bottom Bracket	Model No.		SM-BB9000 SM-BB92-41B	SM-BB7900 SM-BB91-41B	SM-BB7900 SM-BB91-41B	BB-7710 / 7700 SM-BB6700 SM-BB71-41B
	Chain Line	43.5mm	X	X	X	109.5
		45mm	-	-	-	-
Optional Chain Guard		-	-	-	-	-
2-piece Solid Crank Construction		-	-	-	-	-
Average Weight		683g(50-34T, w/BB) 683g(53-39T, w/BB)	735g (53-39T, 170mm, integrated BB)	735g (170mm, integrated BB)	82g (46T, 1 / 2"x 1 / 8")	790g (53-39T, 170mm, integrated BB)

Front Chainwheel (Road) Specifications

Series		ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA	ULTEGRA
Model No.		FC-6700	FC-6703 G	FC-6703	FC-6750 G	FC-6750
Rear Speeds		10	10	10	10	10
Chainring Combination		52-39T 53-39T	52-39-30T	52-39-30T	50-34T	50-34T
PCD (mm)		130	130 / 92	130 / 92	110	110
Crank Arm Length	160.0mm	-	-	-	-	-
	162.5mm	-	-	-	-	-
	165.0mm	X	X	X	X	X
	167.5mm	-	-	-	-	-
	170.0mm	X	X	X	X	X
	172.5mm	X	X	X	X	X
	175.0mm	X	X	X	X	X
	177.5mm	-	-	-	-	-
180.0mm	-	-	-	-	-	
Chain		Supre Narrow HG for 10-speed	Supre Narrow HG for 10-speed	Supre Narrow HG for 10-speed	Supre Narrow HG for 10-speed	Supre Narrow HG for 10-speed
Bottom Bracket	Model No.		SM-BB6700 SM-BB71-41B	SM-BB6700 SM-BB71-41B	SM-BB6700 SM-BB71-41B	SM-BB6700 SM-BB71-41B
	Chain Line	43.5mm	X	-	-	X
		45mm	-	X	X	-
Optional Chain Guard		-	-	-	-	-
2-piece Solid Crank Construction		-	-	-	-	-
Average Weight		790g (53-39T, 170mm, integrated BB)	892g (170mm, integrated BB)	892g (170mm, integrated BB)	788g (170mm, integrated BB)	788g (170mm, integrated BB)

Front Chainwheel (Road) Specifications

Series		Non-Series	105	105	105	Non-Series
Model No.		FC-CX70	FC-5700-S/L	FC-5750-S/L	FC-5703-S/L	FC-CX50-S/L
Rear Speeds		10	10	10	10	10
Chainring Combination		46-36T	52-39T 53-39T	50-34T	50-39-30T	46-36T
PCD (mm)		110	130	110	130 / 74	110
Crank Arm Length	160.0mm	-	-	-	-	-
	162.5mm	-	-	-	-	-
	165.0mm	X	X	X	X	-
	167.5mm	-	-	-	-	-
	170.0mm	X	X	X	X	X
	172.5mm	X	X	X	X	-
	175.0mm	X	X	X	X	X
	177.5mm	-	-	-	-	-
	180.0mm	-	-	-	-	-
Chain		Supre Narrow HG for 10-speed (CN-6701)	Super Narrow HG for 10-speed (CN-5701)	Super Narrow HG for 10-speed (CN-5701)	Super Narrow HG for 10-speed (CN-5600)	Supre Narrow HG for 10-speed (CN-4601)
Bottom Bracket	Model No.		SM-BB6700 SM-BB71-41B	SM-BB5700 SM-BB71-41B	SM-BB5700 SM-BB71-41B	SM-BB4600 SM-BB71-41B
	Chain Line	43.5mm	X	X	X	X
		45mm	-	-	-	X
Optional Chain Guard		-	-	-	-	-
2-piece Solid Crank Construction		-	-	-	-	X
Average Weight		809g (170mm, integrated BB)	846g (53-39T, 170mm, integrated BB)	805g (170mm, integrated BB)	920g (170mm, integrated BB)	972g (170mm, integrated BB)

Front Chainwheel (Road) Specifications

Series		Non-Series	Non-Series	Non-Series	Non-Series	TIAGRA
Model No.		FC-R601	FC-R603	FC-R563 S/L	FC-R565 S/L	FC-4600
Rear Speeds		Single	10	10	10	10
Chainring Combination		40T (Left side)	52-39-30T (Right side) 40T (Left side)	50-39-30T	50-34T	52-39T
PCD (mm)		130	130/92	130/92	110	130
Crank Arm Length	160.0mm	-	-	-	-	-
	162.5mm	-	-	-	-	-
	165.0mm	-	-	X	X	X
	167.5mm	-	-	-	-	-
	170.0mm	X	X	X	X	X
	172.5mm	-	-	X	X	X
	175.0mm	X	X	X	X	X
	177.5mm	-	-	-	-	-
180.0mm	-	-	-	-	-	
Chain		Supre Narrow HG for 10-speed (CN-6600)	Supre Narrow HG for 10-speed (CN-6600)	Super Narrow HG for 10 speed (CN- 5600)	Super Narrow HG for 10 speed (CN- 4601)	Super Narrow HG for 10 speed (CN-4601)
Bottom Bracket	Model No.		Included	SM-BB6700	SM-BB4600 SM-BB71-41B	SM-BB4600 SM-BB71-41B
	Chain Line	43.5mm	left side 49.9	Left side 49.9	-	X
		45mm	-	Right side 45	X	-
Optional Chain Guard		-	-	-	-	-
2-piece Solid Crank Construction		-	-	X	X	X
Average Weight		724g (170mm, integrated BB)	1048g (170mm, integrated BB)	-	-	-

Front Chainwheel (Road) Specifications

Series		TIAGRA	TIAGRA	Non-Series	SORA	SORA	
Model No.		FC-4650	FC-4603	FC-4550-S	FC-3550	FC-3503	
Rear Speeds		10	10	9	9	9	
Chainring Combination		50-34T	50-39-30T	50-34T	50-34T 46-34T	50-39-30T	
PCD (mm)		110	130 / 92	110	110	130 / 74	
Crank Arm Length	160.0mm	-	-	-	-	-	
	162.5mm	-	-	-	-	-	
	165.0mm	X	X	X	X	X	
	167.5mm	-	-	-	-	-	
	170.0mm	X	X	X	X	X	
	172.5mm	X	X	-	-	-	
	175.0mm	X	X	X	X	X	
	177.5mm	-	-	-	-	-	
	180.0mm	-	-	-	-	-	
Chain		Super Narrow HG for 10 speed (CN-4601)	Super Narrow HG for 10 speed (CN-5600)	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed (CN-HG53)	Super Narrow HG for 9-speed (CN-HG53)	
Bottom Bracket	Model No.		SM-BB4600 SM-BB71-41B	SM-BB4600 SM-BB71-41B	Included*	SM-BB4600 SM-BB71-41B	SM-BB4600 SM-BB71-41B
	Chain Line	43.5mm	X	-	X	X	-
		45mm	-	X	-	-	-
Optional Chain Guard		-	-	-	X	X	
2-piece Solid Crank Construction		X	X	X	X	X	
Average Weight		-	-	-	-	-	

Front Chainwheel (Road) Specifications

Series		2300	2300	2300	Non-Series	Non-Series	
Model No.		FC-2300	FC-2350-S/L	FC-2303	FC-R453	FC-R350	
Rear Speeds		8	8	8	9	9	
Chainring Combination		52-39T	50-34T	52-42-30T	50-39-30T	52-39T	
PCD (mm)		130	110	130 / 74	130/74	130	
Crank Arm Length	160.0mm	-	-	-	-	-	
	162.5mm	-	-	-	-	-	
	165.0mm	-	-	-	-	X	
	167.5mm	-	-	-	-	-	
	170.0mm	X	X	X	X	X	
	172.5mm	-	-	-	-	-	
	175.0mm	X	X	X	X	X	
	177.5mm	-	-	-	-	-	
	180.0mm	-	-	-	-	-	
Chain		HG	HG	HG	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed (CN-HG53)	
Bottom Bracket	Model No.		BB-UN26	BB-UN26	BB-UN26	BB-ES25	SM-BB4600 SM-BB71-41B
	Chain Line	43.5mm	MM110	MM110	-	-	X
		45mm	-	-	LL113	121	-
Optional Chain Guard		X	X	X	X	X	
2-piece Solid Crank Construction		-	-	-	-	X	
Average Weight		-	-	-	-	-	

Front Chainwheel (Road) Specifications

Series		Non-Series	Non-Series	Tourney A070	
Model No.		FC-R345 (L)	FC-R345 (S)	FC-A070	
Rear Speeds		9	9	7/8	
Chainring Combination		50-34T	50-34T	50-34T	
PCD (mm)		110	110	Riveted	
Crank Arm Length	160.0mm	-	-	-	
	162.5mm	-	-	-	
	165.0mm	-	-	-	
	167.5mm	-	-	-	
	170.0mm	X	X	X	
	172.5mm	-	-	-	
	175.0mm	X	X	-	
	177.5mm	-	-	-	
180.0mm		-	-	-	
Chain		Super Narrow HG for 9-speed	Super Narrow HG for 9-speed	HG	
Bottom Bracket	Model No.		BB-ES25	BB-ES25	BB-UN26
	Chain Line	43.5mm	113	113	MM110
		45mm	-	-	-
Optional Chain Guard		X	X	X	
2-piece Solid Crank Construction		-	-	-	
Average Weight		-	-	-	

Bottom Bracket (Road) Specifications

Series				Dura-Ace	SHIMANO	Dura-Ace	Dura-Ace	Dura-Ace(Track)
Model No.				SM-BB9000	SM-BB92-41B	SM-BB7900	BB-7700	BB-7710
Applicable Front Chainwheel				FC-9000	FC-9000	FC-7900/7950	FC-7710	FC-7710
Hollow Pipe				X	X	X	X	X
Cartridge Type				-	-	-	-	X
Splined Crank Arm Mounts				X	X	X	X	X
Axle Length	Hollowtech II Construction	68mm	(BC1.37)	X	X	X	-	-
		70mm	(M36)	X	X	X	-	-
	109.5 mm	68mm	(BC1.37)	-	-	-	X	X
		70mm	(M36)	-	-	-	X	-
	118.5 mm	68mm	(BC1.37)	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-
	113 mm	68mm	(BC1.37)	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-
	121mm	68mm	(BC1.37)	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-
	MM107	68mm	(BC1.37)	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-
	MM110	68mm	(BC1.37)	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-
	LL113	68mm	(BC1.37)	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-

Bottom Bracket (Road) Specifications

Series				Dura-Ace	Ultegra	105	TIAGRA	TIAGRA
Model No.				BB-7703	SM-BB6700	SM-BB5700	SM-BB4600	SM-FC4500
Applicable Front Chainwheel				FC-7703	FC-6700/6703/6750/CX70	FC-5700/5703/5750	FC-4600/4603/4650/R565/R563/CX50	FC-3450/3403/R600/R550/R553/4550-S
Hollow Pipe				X	X	X	X	X
Cartridge Type				X	-	-	-	-
Splined Crank Arm Mounts				X	X	X	X	X
Axle Length	Hollowtech II Construction	68mm	(BC1.37)	-	X	X	X	X
		70mm	(M36)	-	X	X	X	X
	109.5 mm	68mm	(BC1.37)	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-
	118.5 mm	68mm	(BC1.37)	X	-	-	-	-
		70mm	(M36)	X	-	-	-	-
	113 mm	68mm	(BC1.37)	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-
	121mm	68mm	(BC1.37)	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-
	MM107	68mm	(BC1.37)	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-
	MM110	68mm	(BC1.37)	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-
	LL113	68mm	(BC1.37)	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-

Bottom Bracket (Road) Specifications

Series				SORA	SORA	SORA	2300	2300
Model No.				SM-BB4600	BB-ES25	BB-ES25	BB-UN26	BB-UN26
Applicable Front Chainwheel				FC-3500/3503/4600/ 4603/4650/ R565/R563/CX50	FC-R450	FC-R453	FC-2300	FC-2303
Hollow Pipe				X	X	X	-	-
Cartridge Type				-	X	X	X	X
Splined Crank Arm Mounts				X	X	X	-	-
Axle Length	Hollowtech II Construction	68mm	(BC1.37)	X	-	-	-	-
		70mm	(M36)	X	-	-	-	-
	109.5 mm	68mm	(BC1.37)	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-
	118.5 mm	68mm	(BC1.37)	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-
	113 mm	68mm	(BC1.37)	-	X	-	-	-
		70mm	(M36)	-	X	-	-	-
	121mm	68mm	(BC1.37)	-	-	X	-	-
		70mm	(M36)	-	-	-	-	-
	MM107	68mm	(BC1.37)	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-
	MM110	68mm	(BC1.37)	-	-	-	X	-
		70mm	(M36)	-	-	-	X	-
	LL113	68mm	(BC1.37)	-	-	-	-	X
		70mm	(M36)	-	-	-	-	X

Bottom Bracket (Road) Specifications

Series		Tourney A070		
Model No.		BB-UN26		
Applicable Front Chainwheel		FC-A070		
Hollow Pipe		-		
Cartridge Type		X		
Splined Crank Arm Mounts		-		
Axle Length	Hollowtech II Construction	68mm	(BC1.37)	-
		70mm	(M36)	-
	109.5 mm	68mm	(BC1.37)	-
		70mm	(M36)	-
	118.5 mm	68mm	(BC1.37)	-
		70mm	(M36)	-
	113 mm	68mm	(BC1.37)	-
		70mm	(M36)	-
	121mm	68mm	(BC1.37)	-
		70mm	(M36)	-
	MM107	68mm	(BC1.37)	-
		70mm	(M36)	-
	MM110	68mm	(BC1.37)	X
		70mm	(M36)	X
	LL113	68mm	(BC1.37)	-
		70mm	(M36)	-

Freehub (Road) Specifications

Series		Dura-Ace	Ultegra	105	Non-Series
Model No.		FH-9000	FH-6700	FH-5700-S/L	FH-R505
Spoke Hole	24H	X	-	-	-
	28H	X	-	-	-
	32H	X	X	X	X
	36H	X	X	X	X
	Aero spoke	24/28H	-	-	-
	PCD (mm)	(Non Drive side) 44/(Drive side) 45	45	45	45
Freehub Body	Speeds	11/10*	8/9/10	8/9/10	8/9/10
O.L.D. (mm)		130	130	130	135
Flange Distance (mm)		56.9 **	59.2	57.9	57.4
Dish (mm)		9.75 **	8.9	8.4	6.7
Axle	QR Skewer Length (mm)	163/168	163	163	168
	Length (mm)	141	141	141	146
Average Weight		247g	354g	353g	-
Note		* Can be used for 10-speed with an additional spacer. ** Flange Distance:56.5, Dish:9.95(only for 28H) ***Super Finishing.			For Disc Brake/ Center lock mount

Freehub (Road) Specifications

Series		TIAGRA	SORA	2200	2200
Model No.		FH-4600	FH-3500	FH-2200	FH-2200-L
Spoke Hole	24H	-	-	-	-
	28H	-	-	-	-
	32H	X	X	X	X
	36H	X	X	X	X
	Aero spoke	-	-	-	-
	PCD (mm)	45	45	45	45
Freehub Body	Speeds	8/9/10	8/9/10	8/9	8/9
O.L.D. (mm)		130	130	130	130
Flange Distance (mm)		57.9	57.9	57.9	57.9
Dish (mm)		8.4	8.6	8.6	8.6
Axle	QR Skewer Length (mm)	163 or 168	163	163	163
	Length (mm)	141	141	141	141
Average Weight		-	-	-	-
Note			QR Lever Housing Aluminum		

Front Hub (Road) Specifications

Series		Dura-Ace	Dura-Ace	Dura-Ace	Ultegra	105	Non-Series
Model No.		HB-9000	HB-7710	HB-7600	HB-6700	HB-5700-S/L	HB-R505
Spoke Hole	24H	X	-	-	-	-	-
	28H	X	X	X	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
	Aero Spoke	18/24H	-	-	-	-	-
	PCD (mm)	38	38 (Front) 44 (Rear)	67	38	38	44
O.L.D. (mm)		100	100 (Front) 120 (Rear)	100 (Front) 120 (Rear)	100	100	100
Flange Distance (mm)		74.0	F:74.0 *R(Single Thread):72.5 (Double Thread):67.0	F:72.3 *R(Single Thread):75.5 (Double Thread):65.0	71.6	71.6	60.2
Axle	QR Skewer Length (mm)	133	-	-	133	133	133
	Length (mm)	108	142(M9) (Front) 164(M10) (Rear)	142(M9) (Front) 164(M10) (Rear)	108(M9)	108(M10)	108(M10)
Radial Lacing		X	-	-	X	X	X
Average Weight		120g	298g (rear w / lock ring) 203g (front)	313g (rear LF w / lock ring) 241g (front LF)	156g	158g	-
Note		*Super Finishing	For Track *Dishing Distance R(Single Thread):2.75mm (Double Thread):0				For Disc Brake/ Center lock mount

Front Hub (Road) Specifications

Series		TIAGRA	SORA	2200	2200
Model No.		HB-4600	HB-3500	HB-2200	HB-2200-L
Spoke Hole	24H	-	-	-	-
	28H	-	-	-	-
	32H	X	X	X	X
	36H	X	X	X	X
	Aero Spoke	-	-	-	-
	PCD (mm)	38	38	38	38
O.L.D. (mm)		100	100	100	100
Flange Distance (mm)		71.6	71.6	71.6	71.6
Axle	QR Skewer Length (mm)	133	133	129/133	129/133
	Length (mm)	108(M9)	108(M9)	108(M9)	108(M9)
Radial Lacing		X	-	-	-
Average Weight		-	-	-	-
Note			QR Lever Housing Aluminum		

Cassette Sprocket (Road) Specifications

Series	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	
Model No.	CS-9000	CS-9000	CS-9000	CS-9000	CS-9000	CS-7900	CS-7900	
Type	HG	HG	HG	HG	HG	10	10	
Combination	Speed	11	11	11	11	11	HG	HG
	10	21	23	25	23	25	21	23
	9	19	21	23	21	23	19	21
	8	18	19	21	19	21	18	19
	7	17	17	19	18	19	17	17
	6	16	16	17	17	17	16	16
	5	15	15	15	16	16	15	15
	4	14	14	14	15	15	14	14
	3	13	13	13	14	14	13	13
	2	12	12	12	13	13	12	12
1	11	11	11	12	12	11	11	
Group	-	-	-	-	-	-	-	
Chain	HG 11-speed	HG 11-speed	HG 11-speed	HG 11-speed	HG 11-speed	Super narrow HG for 10-speed	Super narrow HG for 10-speed	
Average Weight	-	166g	176g	-	190g	159g	163g	

Cassette Sprocket (Road) Specifications

Series	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Ultegra	
Model No.	CS-7900	CS-7900	CS-7900	CS-7900	CS-7900	CS-7900	CS-6700	
Type	10	10	10	10	10	10	HG	
Combination	Speed	HG	HG	HG	HG	HG	HG	10
	10	25	27	28	23	25	27	23
	9	23	24	24	21	23	24	21
	8	21	21	21	19	21	21	19
	7	19	19	19	18	19	19	17
	6	17	17	17	17	17	17	16
	5	15	15	15	16	16	16	15
	4	14	14	14	15	15	15	14
	3	13	13	13	14	14	14	13
	2	12	12	12	13	13	13	12
1	11	11	11	12	12	12	11	
Group	-	-	-	-	-	-	-	
Chain	Super narrow HG for 10-speed	Super narrow HG for 10-speed	Super narrow HG for 10-speed	Super narrow HG for 10-speed	Super narrow HG for 10-speed	Super narrow HG for 10-speed	HG 10-speed	
Average Weight	180g	184g	187g	181g	184g	189g	209g	

Cassette Sprocket (Road) Specifications

Series	Ultegra	Ultegra	Ultegra	Ultegra	Ultegra	105	105
Model No.	CS-6700	CS-6700	CS-6700	CS-6700	CS-6700	CS-5700	CS-5700
Type	HG	HG	HG	HG	HG	HG	HG
Combination	Speed	10	10	10	10	10	10
	10	23	25	25	28	30	25
	9	21	23	23	24	27	23
	8	19	21	21	21	24	21
	7	18	19	19	19	21	19
	6	17	17	17	17	19	17
	5	16	16	15	15	17	15
	4	15	15	14	14	15	14
	3	14	14	13	13	14	13
	2	13	13	12	12	13	12
1	12	12	11	11	12	11	12
Group	-	-	-	-	-	-	-
Chain	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed
Average Weight	225g	238g	229g	242g	-	245g	250g

Cassette Sprocket (Road) Specifications

Series	105	105	TIAGRA	TIAGRA	TIAGRA	SORA	TIAGRA	
Model No.	CS-5700	CS-5700	CS-4600	CS-4600	CS-4600	CS-HG50-9	CS-HG50-9	
Type	HG	HG	HG	HG	HG	-	HG	
Combination	Speed	10	10	10	10	10	9	9
	10	27	28	25	28	30	-	-
	9	24	24	23	25	27	32	23
	8	21	21	21	23	24	28	21
	7	19	19	19	21	21	24	19
	6	17	17	17	19	19	21	17
	5	16	15	15	17	17	18	16
	4	15	14	14	15	15	16	15
	3	14	13	13	14	14	14	14
	2	13	12	12	13	13	12	13
1	12	11	11	12	12	11	12	
Group	-	-	-	-	-	ar	-	
Chain	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 9-speed	HG 9-speed	
Average Weight	258g	255g	-	310g	329g	-	-	

Cassette Sprocket (Road) Specifications

Series	TIAGRA	TIAGRA	TIAGRA	TIAGRA	SORA	SORA	SORA
Model No.	CS-HG50-9	CS-HG50-9	CS-HG50-9	CS-HG50-9	CS-HG50-9	CS-HG50-9	CS-HG50-9
Type	HG	HG	HG	HG	HG	HG	HG
Combination	Speed	9	9	9	9	9	9
	10	-	-	-	-	-	-
	9	25	25	25	30	25	23
	8	23	23	23	26	23	21
	7	21	21	21	23	21	19
	6	19	19	19	20	19	17
	5	17	17	18	18	17	16
	4	15	16	17	16	15	15
	3	14	15	16	14	13	14
	2	13	14	15	12	12	13
1	12	13	14	11	11	12	
Group	-	-	-	bQ	-	-	-
Chain	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed	HG 9-speed
Average Weight	-	-	-	-	-	-	-

Cassette Sprocket (Road) Specifications

Series	SORA	SORA	SORA	2300	2300	2300	2300	
Model No.	CS-HG50-9	CS-HG50-9	CS-HG50-9	CS-HG50-8	CS-HG50-8	CS-HG50-8	CS-HG50-8	
Type	HG	HG	HG	HG	HG	HG	HG	
Combination	Speed	9	9	9	8	8	8	8
	10	-	-	-	-	-	-	-
	9	25	25	30	-	-	-	-
	8	23	23	26	21	23	25	23
	7	21	21	23	19	21	23	21
	6	19	19	20	17	19	21	19
	5	17	18	18	16	17	19	17
	4	16	17	16	15	15	17	16
	3	15	16	14	14	14	15	15
	2	14	15	12	13	13	13	14
1	13	14	11	12	12	12	13	
Group	-	-	bQ	S	U	W	T	
Chain	HG 9-speed	HG 9-speed	HG 9-speed	HG	HG	HG	HG	
Average Weight	-	-	-	-	-	-	-	

Cassette Sprocket (Road) Specifications

Series	2300	Tourney A070	Tourney A070
Model No.	CS-HG50-8	CS-HG41-7	CS-HG20-7
Type	HG	HG	HG
Combination	Speed	8	7
	10	-	-
	9	-	-
	8	26	-
	7	23	28
	6	21	24
	5	19	21
	4	17	18
	3	15	15
	2	14	13
1	13	11	
Group	V	ac	E
Chain	HG	IG/HG	IG/HG
Average Weight	-	-	-

Chain (Road) Specifications

Series	Dura-Ace	Dura-Ace	Dura-Ace	Ultegra	Ultegra	105	105	TIAGRA
Model No.	CN-9000	CN-7901	CN-7801	CN-6701	CN-6600	CN-5701	CN-5600	CN-4601
Type	HG 11-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed	HG 10-speed
Average Weight	243g	255g (114links)	-	267g (114links)	280g (116links)	267g (114links)	280g (116links)	-

Chain (Road) Specifications

Series	SORA	2200	2200 / Tourney A070	Tourney A070 /A050
Model No.	CN-HG53	CN-HG50	CN-HG40	CN-UG51
Type	HG 9-speed	HG	HG	UG
Average Weight	-	-	-	-

Pedal Specifications

Series	XTR	XTR	XT	XT	Non-Series	Non-Series
Model No.	PD-M985	PD-M980	PD-M785	PD-M780	PD-M540	PD-M530
Type	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)
Cleat Retention Adjuster	X	X	X	X	X	X
Pop-up Cage	-	-	-	-	-	-
Integrated cage	X	-	X	-	-	X
Offset binding	-	X	-	X	-	-
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 (OPTION)	SM-PD60	SM-PD60	SM-PD60	SM-PD60	SM-PD22	SM-PD60
Weight (pair)	379g	310g	408g	343g	352g	455g

Pedal Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	XT
Model No.	PD-M520	PD-M505	PD-M647	PD-M545	PD-M424	PD-T780
Type	Off-Road (SPD)	Off-Road (SPD)	Off-Road (SPD)	Off-Road/BMX (SPD)	Off-Road/BMX (SPD)	Trekking (SPD/Flat)
Cleat Retention Adjuster	X	X	X	X	X	X
Pop-up Cage	-	-	X	X	X	-
Integrated cage	-	-	-	-	-	-
Offset binding	-	-	-	-	-	-
Cleat Included	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH51	SM-SH56
Optional Cleat	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH56	SM-SH51
Reflector (OPTION)	SM-PD22	SM-PD22	SM-PD60	SM-PD40	SM-PD40	Integrated
Weight (pair)	380g	443g	568g	567g	472g	392g

Pedal Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	SAINT
Model No.	PD-M324	PD-A600	PD-A530	PD-A520	PD-MX80
Type	Multi-purpose (SPD/Flat)	Road (SPD)	Multi-purpose (SPD/Flat)	Road (SPD)	Off-Road (Flat Pedal)
Cleat Retention Adjuster	X	X	X	X	-
Pop-up Cage	-	-	-	-	-
Integrated cage	-	-	-	-	-
Offset binding	-	-	-	-	-
Cleat Included	SM-SH56	SM-SH51	SM-SH51	SM-SH51	-
Optional Cleat	SM-SH51	SM-SH56	SM-SH56	SM-SH56	-
Reflector (OPTION)	Y41B98010	SM-PD62	SM-PD61	SM-PD59	SM-PD64
Weight (pair)	533g	286g	383g	315g	500g

Pedal Specifications

Series	Non-Series	Non-Series
Model No.	PD-T700	PD-T400
Type	Trekking (Click'R)	Trekking (Click'R)
Cleat Retention Adjuster	X	X
Pop-up Cage	X	X
Integrated cage	-	-
Offset binding	-	-
Cleat Included	SM-SH56	SM-SH56
Optional Cleat	SM-SH51	SM-SH51
Reflector (OPTION)	-	-
Weight (pair)	457g	507g

Pedal Specifications

Series	Dura-Ace	ULTEGRA	ULTEGRA	105	Non-Series
Model No.	PD-9000	PD-6700-C	PD-6700	PD-5700	PD-R540-LA
Cleat Retention Adjuster	X	X	X	X	X
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-PD58	SM-PD58	SM-PD58
Weight (pair)	248g	260g	314g	322g	330g

Pedal Specifications

Series	Non-Series
Model No.	PD-R540
Cleat Retention Adjuster	X
Cleat Included	SM-SH11
Optional Cleat	SM-SH10 / SM-SH12
Reflector	SM-PD58
Weight (pair)	330g

Wheel Specifications (MTB)

Series		XTR	XTR	XTR	XTR
Model No.		WH-M985-F15	WH-M985-F	WH-M985-R	WH-M988-F15
Type		UST	UST	UST	UST
Freehub Body	Speeds	-	-	9/10	-
O.L.D. (mm)		100	100	135	100
Hub Axle	QR	N/A (15mm thru axle)	X	X	N/A (15mm thru axle)
	Length (mm)	-	108	146	-
Hub Shell	Center Lock Rotor Mount	X	X	X	X
QR Lever	QR Skewer Length (mm)	-	133	168	-
Rim	Size	559 X 19C (26")	559 X 19C (26")	559 X 19C (26")	559 X 21C (26")
	Height/Width (mm)	21/23.3	21/23.3	21/23.3	22/26.4
	Brake Type	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Spokes	No. of Spokes	24	24	24	24
	Gauge/Shape	Butted (2.0-1.5-2.0)/Round	Butted (2.0-1.5-2.0)/Round	Butted (2.0-1.5-2.0)/Round	Butted (2.0-1.8-2.0)/Round
Spoke Protector (Option)		-	-	CP-WH14A/15	-
Reflector (Option)		CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)			CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)
Note		Recommended Tire width:1.50-2.25			Recommended Tire width:1.95-2.50
Weight		679g	679g	807g	759g

Wheel Specifications (MTB)

Series		XTR	XTR	XT	XT
Model No.		WH-M988-R12	WH-M988-R	WH-M785-F15	WH-M785-F
Type		UST	UST	UST	UST
Freehub Body	Speeds	9/10	9/10	-	-
O.L.D. (mm)		142	135	100	100
Hub Axle	QR	N/A (SM-AX75 12mm thru axle)	X	N/A (15mm thru axle)	X
	Length (mm)	-	146	-	108
Hub Shell	Center Lock Rotor Mount	X	X	X	X
QR Lever	QR Skewer Length (mm)	-	168	-	133
Rim	Size	559 X 21C (26")	559 X 21C (26")	559 X 19C (26")	559 X 19C (26")
	Height/Width (mm)	22/26.4	22/26.4	19/23.4	19/23.4
	Brake Type	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Spokes	No. of Spokes	24	24	24	24
	Gauge/Shape	Butted (2.0-1.8-2.0)/Round	Butted (2.0-1.8-2.0)/Round	Butted (2.0-1.5-2.0)/Round	Butted (2.0-1.5-2.0)/Round
Spoke Protector (Option)		CP-WH14A/15	CP-WH14A/15	-	-
Reflector (Option)		CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)		CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)	
Note		Recommended Tire width:1.95-2.50		Recommended Tire width:1.50-2.25	
Weight		937g	889g	710g	710g

Wheel Specifications (MTB)

Series		XT	XT	XT	XT
Model No.		WH-MT785-R	WH-M785-F-29	WH-M785-F15-29	WH-M785-R-29
Type		UST	UST	UST	UST
Freehub Body	Speeds	9/10	-	-	9/10
O.L.D. (mm)		135	100	100	135
Hub Axle	QR	X	X	N/A (15mm thru axle)	X
	Length (mm)	146	108	-	146
Hub Shell	Center Lock Rotor Mount	X	X	X	X
QR Lever	QR Skewer Length (mm)	168/173	133	-	168/173
Rim	Size	559 X 19C (26")	622X19C (29")	622X19C (29")	622X19C (29")
	Height/Width (mm)	19/23.4	21/23.3	21/23.3	21/23.3
	Brake Type	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Spokes	No. of Spokes	24	24	24	24
	Gauge/Shape	Butted (2.0-1.5-2.0)/Round	Butted (2.0-1.8-2.0)/Round	Butted (2.0-1.8-2.0)/Round	Butted (2.0-1.8-2.0)/Round
Spoke Protector (Option)		CP-WH14A/15	-	-	CP-WH14A/15
Reflector (Option)		CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)
Note		Recommended Tire width:1.50-2.25	Recommended Tire width:1.50-2.25	Recommended Tire width:1.50-2.25	Recommended Tire width:1.50-2.25
Weight		915g	-	-	-

Wheel Specifications (MTB)

Series		XT	XT	XT	Non-Series
Model No.		WH-M788-F15	WH-M788-R12	WH-M788-R	WH-MT75-F
Type		UST	UST	UST	UST
Freehub Body	Speeds	-	9/10	9/10	-
O.L.D. (mm)		100	142	135	100
Hub Axle	QR	N/A (15mm thru axle)	N/A (12mm thru axle)	X	X
	Length (mm)	-	-	-	108
Hub Shell	Center Lock Rotor Mount	X	X	X	X
QR Lever	QR Skewer Length (mm)	-	-	168/173	133
Rim	Size	559 X 21C (26")	559 X 21C (26")	559 X 21C (26")	622 X 19C (29")
	Height/Width (mm)	20.5/25.8	20.5/25.8	20.5/25.8	21/23.3
	Brake Type	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Spokes	No. of Spokes	24	24	24	24
	Gauge/Shape	Straight(2.0-1.8-2.0)/Round	Straight(2.0-1.8-2.0)/Round	Straight(2.0-1.8-2.0)/Round	Butted (2.0-1.8-2.0)/Round
Spoke Protector (Option)		-	CP-WH14A/15	CP-WH14A/15	-
Reflector (Option)		CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)			CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)
Note		Recommended Tire width:1.95-2.50			Recommended Tire width:1.50-2.25
Weight		775g	1020g	980g	832g

Wheel Specifications (MTB)

Series		Non-Series	Non-Series	Non-Series	Non-Series
Model No.		WH-MT75-R	WH-MT68-F15	WH-MT68-R12	WH-MT68-R
Type		UST	UST tubeless/Clincher	UST tubeless/Clincher	UST tubeless/Clincher
Freehub Body	Speeds	9/10	-	8/9/10	8/9/10
O.L.D. (mm)		135	100	142	135
Hub Axle	QR	X	N/A (15mm thru axle)	N/A (12mm thru axle)	X
	Length (mm)	146	-	-	146
Hub Shell	Center Lock Rotor Mount	X	X	X	X
QR Lever	QR Skewer Length (mm)	168	-	-	168
Rim	Size	622 X 19C (29")	599x21C (26")	599x21C (26")	599x21C (26")
	Height/Width (mm)	21/23.3	20.5/25.8	20.5/25.8	20.5/25.8
	Brake Type	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Spokes	No. of Spokes	24	24	24	24
	Gauge/Shape	Butted (2.0-1.8-2.0)/Round	Butted (2.0-1.8-2.0)/Round	(2.0-1.8-2.0)/	(2.0-1.8-2.0)/
Spoke Protector (Option)		CP-WH14A/15	-	CP-WH14A/15	CP-WH14A/15
Reflector (Option)		CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)	CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)	CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)
Note		Recommended Tire width:1.50-2.25	Recommended Tire width:1.95-2.50	Recommended Tire width:1.95-2.50	Recommended Tire width:1.95-2.50
Weight		999g	-	-	-

Wheel Specifications (MTB)

Series		Non-Series	Non-Series	Non-Series	Non-Series
Model No.		WH-MT66-F15	WH-MT66-F	WH-MT66-R	WH-MT66-F15-29
Type		UST tubeless/Clincher	UST tubeless/Clincher	UST tubeless/Clincher	UST tubeless/Clincher
Freehub Body	Speeds	-	-	8/9/10	-
O.L.D. (mm)		100	100	135	100
Hub Axle	QR	N/A (15mm thru axle)	X	X	N/A (15mm thru axle)
	Length (mm)	-	108	146	-
Hub Shell	Center Lock Rotor Mount	X	X	X	X
QR Lever	QR Skewer Length (mm)	-	133	168	-
Rim	Size	599x19C (26")	599x19C (26")	599x19C (26")	622x19C (29")
	Height/Width (mm)	19/24.6	19/24.6	19/24.6	19/24.6
	Brake Type	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Spokes	No. of Spokes	24	24	24	24
	Gauge/Shape	(2.0-1.8-2.0)/	(2.0-1.8-2.0)/	(2.0-1.8-2.0)/	(2.0-1.8-2.0)/
Spoke Protector (Option)		-	-	CP-WH14A/15	-
Reflector (Option)		CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)	CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)	CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)	CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)
Note		Recommended Tire width:1.50-2.25	Recommended Tire width:1.50-2.25	Recommended Tire width:1.50-2.25	Recommended Tire width:1.50-2.25
Weight		-	-	-	-

Wheel Specifications (MTB)

Series		Non-Series	Non-Series	Non-Series
Model No.		WH-MT66-F-29	WH-MT66-R12-29	WH-MT66-R-29
Type		UST tubeless/Clincher	UST tubeless/Clincher	UST tubeless/Clincher
Freehub Body	Speeds	-	8/9/10	8/9/10
O.L.D. (mm)		100	142	135
Hub Axle	QR	X	N/A (12mm thru axle)	X
	Length (mm)	108	-	146
Hub Shell	Center Lock Rotor Mount	X	X	X
QR Lever	QR Skewer Length (mm)	133	-	168
Rim	Size	622x19C (29")	622x19C (29")	622x19C (29")
	Height/Width (mm)	19/24.6	19/24.6	19/24.6
	Brake Type	Disc-brake	Disc-brake	Disc-brake
Spokes	No. of Spokes	24	28	28
	Gauge/Shape	(2.0-1.8-2.0)/	(2.0-1.8-2.0)/	(2.0-1.8-2.0)/
Spoke Protector (Option)		-	CP-WH16	CP-WH16
Reflector (Option)		CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)	CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)	CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)
Note		Recommended Tire width:1.50-2.25	Recommended Tire width:1.50-2.25	Recommended Tire width:1.50-2.25
Weight		-	-	-



Wheel Specifications (MTB)

Series		Non-Series	Non-Series	Non-Series
Model No.		WH-MT55-F15 L/W	WH-MT55-F L/W	WH-MT55-R L/W
Type		Clincher	Clincher	Clincher
Freehub Body	Speeds	-	-	9/10
O.L.D. (mm)		100	100	135
Hub Axle	QR	N/A (15mm thru axle)	X	X
	Length (mm)	-	108	146
Hub Shell	Center Lock Rotor Mount	X	X	X
QR Lever	QR Skewer Length (mm)	-	133	168
Rim	Size	559 X 19C (26")	559 X 19C (26")	559 X 19C (26")
	Height/Width (mm)	19/24.6	19/24.6	19/24.6
	Brake Type	Disc-brake	Disc-brake	Disc-brake
Spokes	No. of Spokes	24	24	24
	Gauge/Shape	Butted (2.0)/Round	Butted (2.0)/Round	Butted (2.0)/Round
Spoke Protector (Option)		-	-	CP-WH14A/15
Reflector (Option)		CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)		
Note		Recommended Tire width:1.50-2.25		
Weight		850g	853g	1030g



Wheel Specifications (MTB)

Series		Non-Series	Non-Series
Model No.		WH-MT15-F L/W	WH-MT15-R L/W
Type		Clincher	Clincher
Freehub Body	Speeds	-	9/10
O.L.D. (mm)		100	135
Hub Axle	QR	X	X
	Length (mm)	108	146
Hub Shell	Center Lock Rotor Mount	X	X
QR Lever	QR Skewer Length (mm)	133	168
Rim	Size	559 X 19C (26")	559 X 19C (26")
	Height/Width (mm)	21/24.6	21/24.6
	Brake Type	Disc-brake	Disc-brake
Spokes	No. of Spokes	28	28
	Gauge/Shape	2.0/J-bent,Bladed	2.0/J-bent,Bladed
Spoke Protector (Option)		-	CP-WH12/13
Reflector (Option)		CATEYE: RR-550-WUW (JIS/CPSC) RR-550-WUA (AS) RR-317-WUA (DIN)	
Note		Recommended Tire width:1.50-2.25	
Weight		919g	1030g



Wheel Specifications (Road)

Series		Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace
Model No.		WH-9000-C24-CL-F	WH-9000-C24-CL-R	WH-9000-C24-TL-F	WH-9000-C24-TL-R
Rim Type		Clincher	Clincher	Tubeless	Tubeless
Front / Rear		Front	Rear	Front	Rear
Freehub Body (*note)	Speeds	-	10*/11	-	10*/11
	11T Compatible	-	X	-	X
O.L.D. (mm)		100	130	100	130
Hub Axle	Length (mm)	108	141	108	141
QR Lever	QR Skewer Length (mm)	133	163/168	133	163/168
Rim	Size	622 X 15C (700C)	622 X 15C (700C)	622 X 15C (700C)	622 X 15C (700C)
	Offset Rim	-	X	-	X
	Welded Joint	X	X	X	X
	Height/Width (mm)	21/20.8	23/20.8	21/20.8	23/20.8
	Requires Rim Tape	X	X	-	-
Spokes	No. of Spokes	16	20	16	20
	Shape	Butted(2.0-1.5-2.0)/Bladed	Butted(2.0-1.5-2.0)/Bladed	Butted(2.0-1.5-2.0)/Bladed	Butted(2.0-1.5-2.0)/Bladed
Spoke Protector (Option)		-	CP-WH23/CP-W020	-	CP-WH23/CP-W020
Reflector (Option)		CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)
Weight **		570g	794g	630g	824g
Note		-	* Can be used for 10-speed with an additional spacer.	-	* Can be used for 10-speed with an additional spacer.
		Recommended Tire width 20-25C 		Recommended Tire width 20-25C 	

Wheel Specifications (Road)

Series		Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace
Model No.		WH-9000-C35-CL-F	WH-9000-C35-CL-R	WH-9000-C35-TU-F	WH-9000-C35-TU-R
Rim Type		Clincher	Clincher	Tubular	Tubular
Front / Rear		Front	Rear	Front	Rear
Freehub Body (*note)	Speeds	-	10*/11	-	10*/11
	11T Compatible	-	X	-	X
O.L.D. (mm)		100	130	100	130
Hub Axle	Length (mm)	108	141	108	141
QR Lever	QR Skewer Length (mm)	133	163/168	133	163/168
Rim	Size	622 X 15C (700C)	622 X 15C (700C)	700C	700C
	Offset Rim	-	-	-	X
	Welded Joint	X	X	-	-
	Height/Width (mm)	35/20.8	35/20.8	35/20.8	35/20.8
	Requires Rim Tape	X	X	-	-
Spokes	No. of Spokes	16	21	16	21
	Shape	Butted(2.0-1.8-2.0)/Bladed	Butted(2.0-1.8-2.0)/Bladed	Butted(2.0-1.5-2.0)/Bladed	Butted(2.0-1.5-2.0)/Bladed
Spoke Protector (Option)		-	CP-W184/CP-W024	-	CP-W184/CP-W024
Reflector (Option)		CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)
Weight **		662g	826g	647g	715g
Note		-	* Can be used for 10-speed with an additional spacer.	-	* Can be used for 10-speed with an additional spacer.
		Recommended Tire width 20-25C 		Recommended Tire width 20-25C 	

Wheel Specifications (Road)

Series		Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace
Model No.		WH-9000-C50-CL-F	WH-9000-C50-CL-R	WH-9000-C50-TU-F	WH-9000-C50-TU-R
Rim Type		Clincher	Clincher	Tubular	Tubular
Front / Rear		Front	Rear	Front	Rear
Freehub Body (*note)	Speeds	-	10*/11	-	10*/11
	11T Compatible	-	X	-	X
O.L.D. (mm)		100	130	100	130
Hub Axle	Length (mm)	108	141	108	141
QR Lever	QR Skewer Length (mm)	133	163/168	133	163/168
Rim	Size	622-17C	622-17C	700C	700C
	Offset Rim	-	-	-	-
	Welded Joint	-	-	-	-
	Height/Width (mm)	50/23	50/23	50/24	50/24
	Requires Rim Tape	X	X	-	-
Spokes	No. of Spokes	16	21	16	21
	Shape	Butted(2.0-1.8-2.0)/Bladed	Butted(2.0-1.8-2.0)/Bladed	Butted(2.0-1.8-2.0)/Bladed	Butted(2.0-1.8-2.0)/Bladed
Spoke Protector (Option)		-	CP-W184/CP-W024	-	CP-W184/CP-W024
Reflector (Option)		CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)
Weight **		752g	920g	641g	808g
Note		-	* Can be used for 10-speed with an additional spacer.	SHIMANO Logo	* Can be used for 10-speed with an additional spacer. SHIMANO Logo
		Recommended Tire width 20-25C 		Recommended Tire width 23-25C 	

Wheel Specifications (Road)

Series		Dura-Ace	Dura-Ace	ULTEGRA	ULTEGRA
Model No.		WH-9000-C75-TU-F	WH-9000-C75-TU-R	WH-6700	WH-6700
Rim Type		Tubular	Tubular	Tubeless	Tubeless
Front / Rear		Front	Rear	Front	Rear
Freehub Body (*note)	Speeds	-	10*/11	-	8/9/10*
	11T Compatible	-	X	-	X
O.L.D. (mm)		100	130	100	130
Hub Axle	Length (mm)	108	141	108	141
QR Lever	QR Skewer Length (mm)	133	163/168	133	163/168
Rim	Size	700C	700C	622 X 15C (700C) Tubeless	622 X 15C (700C) Tubeless
	Offset Rim	-	-	-	X
	Welded Joint	-	-	X	X
	Height/Width (mm)	75/24	75/24	24/20.8	23/20.8
	Requires Rim Tape	-	-	-	-
Spokes	No. of Spokes	16	21	16	20
	Shape	Butted(2.0-1.8-2.0)/Bladed	Butted(2.0-1.8-2.0)/Bladed	2.0-1.5-2.0/ Straight pull,Bladed	RH:2.0-1.8-2.0/ Straight pull,Bladed LH:2.0-1.5-2.0/ Straight pull,Bladed
Spoke Protector (Option)		-	CP-W184/CP-W024	-	CP-WH23
Reflector (Option)		CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	
Weight **		678g	867g	1652g / pair (Front:695g,Rear:957g)	
Note	-	* Can be used for 10-speed with an additional spacer.		Standard color (Black rim)	* Can be used for 10-speed with an additional spacer. Standard color (Black rim)
	Recommended Tire width 23-25C			1	Recommended Tire width 19-25C
	** Weight does not include quick release or valve stem				

Wheel Specifications (Road)

Series		ULTEGRA	ULTEGRA	Non-Series	Non-Series
Model No.		WH-6700 G	WH-6700 G	WH-RS80-C50	WH-RS80-C50
Rim Type		Tubeless	Tubeless	Clincher	Clincher
Front / Rear		Front	Rear	Front	Rear
Freehub Body (*note)	Speeds	-	8/9/10*	-	8/9/10*
	11T Compatible	-	X	-	X
O.L.D. (mm)		100	130	100	130
Hub Axle	Length (mm)	108	141	108	141
QR Lever	QR Skewer Length (mm)	133	163/168	133	163/168
Rim	Size	622 X 15C (700C) Tubeless	622 X 15C (700C) Tubeless	622 X 15C (700C)	622 X 15C (700C)
	Offset Rim	-	X	-	-
	Welded Joint	X	X	-	-
	Height/Width (mm)	24/20.8	23/20.8	50/20.8	50/20.8
	Requires Rim Tape	-	-	X	X
Spokes	No. of Spokes	16	20	16	20
	Shape	2.0-1.5-2.0/ Straight pull,Bladed	RH:2.0-1.8-2.0/ Straight pull,Bladed LH:2.0-1.5-2.0/ Straight pull,Bladed	Butted(2.0-1.8-2.0)/Bladed	Butted(2.0-1.8-2.0)/Bladed
Spoke Protector (Option)		-	CP-WH23	-	CP-WH23
Reflector (Option)		CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)		CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	
Weight **		1652g / pair (Front:695g,Rear:957g)		1762g	
Note			* Can be used for 10-speed with an additional spacer. Glossy Grey	-	* Can be used for 10-speed with an additional spacer.
		Recommended Tire width 19-25C		Recommended Tire width 19-25C	
		** Weight does not include quick release or valve stem		** Weight does not include quick release or rim tape	

Wheel Specifications (Road)

Series		Non-Series	Non-Series	Non-Series	Non-Series
Model No.		WH-RS80-A-C24	WH-RS80-A-C24	WH-RS61-TL-F	WH-RS61-TL-R
Rim Type		Clincher	Clincher	Tubeless	Tubeless
Front / Rear		Front	Rear	Front	Rear
Freehub Body (*note)	Speeds	-	8/9/10*	-	10*/11
	11T Compatible	-	X	-	X
O.L.D. (mm)		100	130	100	130
Hub Axle	Length (mm)	108	141	108	141
QR Lever	QR Skewer Length (mm)	133	163/168	133	163/168
Rim	Size	622 X 15C (700C)	622 X 15C (700C)	622 X 15C (700C)	622 X 15C (700C)
	Offset Rim	-	X	-	-
	Welded Joint	X	X	x	x
	Height/Width (mm)	24/20.8	23/20.8	21/20.8	24/20.8
	Requires Rim Tape	X	X	-	-
Spokes	No. of Spokes	16	20	16	20
	Shape	Butted(2.0-1.5-2.0)/Bladed	RH:Butted(2.0-1.8-2.0)/Bladed LH:Butted(2.0-1.5-2.0)/Bladed	/Bladed	/Bladed
Spoke Protector (Option)		-	CP-WH23	-	CP-WH23/CP-W020
Reflector (Option)		CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)		CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)
Weight **		1504g		-	-
Note	-		* Can be used for 10-speed with an additional spacer.	-	-
	Recommended Tire width 19-25C			Recommended Tire width 20-25C	
	** Weight does not include quick release or rim tape			Black version * Can be used for 10-speed with an additional spacer.	Black version * Can be used for 10-speed with an additional spacer.

Wheel Specifications (Road)

Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	WH-RS30A-F	WH-RS30A-R	WH-RS21-CL-F	WH-RS21-CL-R
Rim Type	Clincher	Clincher	Clincher	Clincher
Front / Rear	Front	Rear	Front	Rear
Freehub Body (*note)	Speeds	-	8/9/10*	-
	11T Compatible	-	X	-
O.L.D. (mm)	100	130	100	130
Hub Axle	Length (mm)	108	141	108
QR Lever	QR Skewer Length (mm)	133	163/168	133
Rim	Size	622 X 15C (700C)	622 X 15C (700C)	622 X 15C (700C)
	Offset Rim	-	X	-
	Welded Joint	-	-	-
	Height/Width (mm)	30/20.8	30/20.8	21/20.8
	Requires Rim Tape	X	X	X
Spokes	No. of Spokes	16	20	16
	Shape	Butted(2.0-1.8-2.0)/Bladed	Butted(2.0-1.8-2.0)/Bladed	/Bladed
Spoke Protector (Option)	-	CP-WH23	-	CP-WH23/CP-W020
Reflector (Option)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)		CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)
Weight **	1962g / pair (Front:846g,Rear:1116g)		-	-
Note	-	* Can be used for 10-speed with an additional spacer.	-	-
	Recommended Tire width 19-25C		Recommended Tire width 20-25C	
	** Weight does not include quick release or rim tape		Silver / White / Black version * Can be used for 10-speed with an additional spacer.	Silver / White / Black version * Can be used for 10-speed with an additional spacer.

Wheel Specifications (Road)

Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	WH-RS10A-F	WH-RS10A-R	WH-R501-30-F	WH-R501-30-R
Rim Type	Clincher	Clincher	Clincher	Clincher
Front / Rear	Front	Rear	Front	Rear
Freehub Body (*note)	Speeds	-	8/9/10*	8/9/10*
	11T Compatible	-	X	X
O.L.D. (mm)	100	130	100	130
Hub Axle	Length (mm)	108	141	141
QR Lever	QR Skewer Length (mm)	133	163/168	163/168
Rim	Size	622 X 15C (700C)	622 X 15C (700C)	622 X 15C (700C)
	Offset Rim	-	X	-
	Welded Joint	-	-	-
	Height/Width (mm)	24/20.8	24/20.8	30/20.8
	Requires Rim Tape	X	X	X
Spokes	No. of Spokes	16	20	24
	Shape	Straight(2.0)/Bladed	Straight(2.0)/Bladed	J-bent(2.0)/Bladed
Spoke Protector (Option)	-	CP-WH23	-	CP-FH02 (21-25T) CP-FH35 (27T)
Reflector (Option)	CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)		CATEYE: RR-550-WUW/W SMN03 (JIS/CPSC) RR-550-WUA/A SMN03 (AS) RR-317-WUA/4K SMN03 (DIN)	CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)
Weight **	1892g / pair (Front:811g,Rear:1081g)		1900g / pair (Front:822g,Rear:1078g)	
Note	-	*Can be used for 10-speed with an additional spacer.	-	*Can be used for 10-speed with an additional spacer.
	Recommended Tire width 19-25C		Recommended Tire width 19-28C	
	** Weight does not include quick release or rim tape		** Weight does not include quick release or rim tape	

Wheel Specifications (Road)

Series		Non-Series	Non-Series	Non-Series	Non-Series
Model No.		WH-R501-A-F	WH-R501-A-R	WH-R501-F	WH-R501-R
Rim Type		Clincher	Clincher	Clincher	Clincher
Front / Rear		Front	Rear	Front	Rear
Freehub Body (*note)	Speeds	-	8/9/10*	-	8/9/10*
	11T Compatible	-	X	-	X
O.L.D. (mm)		100	130	100	130
Hub Axle	Length (mm)	108	141	108	141
QR Lever	QR Skewer Length (mm)	133	163/168	133	163/168
Rim	Size	622 X 15C (700C)	622 X 15C (700C)	622 X 15C (700C)	622 X 15C (700C)
	Offset Rim	-	-	-	-
	Welded Joint	-	-	-	-
	Height/Width (mm)	24/20.8	24/20.8	24/20.8	24/20.8
	Requires Rim Tape	X	X	X	X
Spokes	No. of Spokes	20	24	20	24
	Shape	J-bent(2.0)/Bladed	J-bent(2.0)/Bladed	J-bent(2.0)/Round	J-bent(2.0)/Round
Spoke Protector (Option)		-	CP-FH02 (21-25T) CP-FH35 (27T)	-	CP-FH02 (21-25T) CP-FH35 (27T)
Reflector (Option)		CATEYE: RR-550-WUW/W SMN03 (JIS/CPSC) RR-550-WUA/A SMN03 (AS) RR-317-WUA/4K SMN03 (DIN)	CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)	CATEYE: RR-550-WUW/W SMN03 (JIS/CPSC) RR-550-WUA/A SMN03 (AS) RR-317-WUA/4K SMN03 (DIN)	CATEYE: RR-550-WUW SW W/O BRACKET (JIS/CPSC) RR-550-WUA SW W/O BRACKET (AS) RR-317-WUA SW W/O BRACKET (DIN)
Weight **		1900g / pair (Front:822g,Rear:1078g)		1900g / pair (Front:822g,Rear:1078g)	
Note		-	*Can be used for 10-speed with an additional spacer.	-	*Can be used for 10-speed with an additional spacer.
		Recommended Tire width 19-28C		Recommended Tire width 19-28C	
	** Weight does not include quick release or rim tape New Seal system	New Seal system		** Weight does not include quick release or rim tape New Seal system	New Seal system

Head Parts (Road) Specifications

Series	Dura-Ace
Model No.	HP-7410
Size	JIS ENGLISH
Thread	BC1"x24T.PT.I.
Sealed Cartridge Bearings	X
Stack Height (mm)	37.6

CI-Deck Specifications

Series	Tourney	Tourney	Tourney	Tourney	Tourney
Model No.	ID-TX51-7R	ID-TX51-6R	ID-TX51-LC	ID-TX50-7R	ID-TX50-6R
Compatible Shift Lever	SL-RS35/36/41/41A/45/47	SL-RS35/36/41/41A/45/47	-	SB-C055A SL-RS31/41/41A/43	SL-RS31/41/43
Front Speeds	-	-	-	-	-
Rear Speeds	7	6	-	7	6
SL Compatible RD Type	Top normal	Top normal	-	Top normal	Top normal
CID Cable	Stainless Steel	Stainless Steel	-	Stainless Steel	Stainless Steel
CID Cable Type	TX50	TX50	-	TX50	TX50
CID Cable Adjust	X	X	-	X	X
Optical Gear Display	Front	-	-	-	-
	Rear	6-speed	7-speed	7-speed	6-speed
Stainless CID Cable	X	X	-	X	X
Clamp Band Diameter	22.2mm	-	-	-	-
	25.0mm	-	-	-	-
	22.2/25.0mm	-	-	-	-
Note	uses together with SM-TX20/35/50.	uses together with SM-TX20/35/50.	dummy cover	Use with SM-TX20/30,SC-TX50	Use with SM-TX20/30,SC-TX50

CI-Deck Specifications

Series	Tourney		Tourney		Tourney	Tourney
Model No.	ID-TX50-LN	ID-TX50-L	ID-TX50-LC	SM-TX20	SM-TX21	
Compatible Shift Lever	SB-C055A SL-RS31/41/41A/43	SB-C055A SL-RS31/41/41A/43	SL-RS31	-	-	
Front Speeds	Friction	3	-	-	-	
Rear Speeds	-	-	-	-	-	
SL Compatible RD Type	-	-	-	-	-	
CID Cable	Stainless Steel	Stainless Steel	-	-	-	
CID Cable Type	TX50	TX50	-	-	-	
CID Cable Adjust	X	X	-	-	-	
Optical Gear Display	Front	Friction	3-speed	-	-	
	Rear	-	-	-	-	
Stainless CID Cable	X	X	-	-	-	
Clamp Band Diameter	22.2mm	-	-	-	-	
	25.0mm	-	-	-	-	
	22.2/25.0mm	-	-	-	X	
Note	Use with SM-TX20/30,SC-TX50	Use with SM-TX20/30,SC-TX50	Use with SM-TX20/30,SC-TX50 No gear position & display for front single crankset bicycle.	Bracket for ID-TX50/TX51/SC-TX31/SM-TX32	Cowling Use with SM-TX20	

CI-Deck Specifications

Series		Tourney	Tourney	Tourney	Tourney	Tourney
Model No.		SM-TX50	SM-TX35	SM-TX36	SM-TX37	SM-TX30
Compatible Shift Lever		-	-	-	-	-
Front Speeds		-	-	-	-	-
Rear Speeds		-	-	-	-	-
SL Compatible RD Type		-	-	-	-	-
CID Cable		-	-	-	-	-
CID Cable Type		-	-	-	-	-
CID Cable Adjust		-	-	-	-	-
Optical Gear Display	Front	-	-	-	-	-
	Rear	-	-	-	-	-
Stainless CID Cable		-	-	-	-	-
Clamp Band Diameter	22.2mm	-	-	-	-	-
	25.0mm	-	-	-	-	-
	22.2/25.0mm	X	X	-	-	X
Note		Bracket for ID-TX50/SC-TX31/ SM-TX32	Bracket for ID-TX50/ID- TX51/SC-TX30/SC-TX31/SC- TX35/SM-TX31/SM-TX32	Cowling Use with SM-TX35	Analog compass Use with SM- TX20/TX30/TX35/TX50	Bracket for ID-TX50/ SC- TX30/SC-TX31/ SM-TX31/SM- TX32

CI-Deck Specifications

Series		Tourney	Tourney
Model No.		SM-TX31	SM-TX32
Compatible Shift Lever		-	-
Front Speeds		-	-
Rear Speeds		-	-
SL Compatible RD Type		-	-
CID Cable		-	-
CID Cable Type		-	-
CID Cable Adjust		-	-
Optical Gear Display	Front	-	-
	Rear	-	-
Stainless CID Cable		-	-
Clamp Band Diameter	22.2mm	-	-
	25.0mm	-	-
	22.2/25.0mm	-	-
Note		Cowling Use with SM-TX30.	Analog compass Use with SM-TX50/30, SC-TX50

Lamp Specifications

Series		Non-Series	Nexus	Nexus
Model no.		LP-R200	LP-X200	LP-X102
Auto Light		X	X	X
Type		6V-2.4W	6V-2.4W	6V-2.4W
Main Lamp		1W Super Bright White LED X 2	1W Super Bright White LED X 2	1W Super Bright White LED
Sub Lamp		-	-	-
LED Flashing Function		-	-	-
Attachment Position		Handle bar, Center	Below Center Basket	Front fork Light stay
Clamp Band Diameter		22.2mm 25.8mm 31.8mm	-	-
Switch	Auto	X	X	X
	Manual(ON)	X	X	X
	Manual(OFF)	-	-	-
Note		Only for Japanese market/With connection wire cable	Only for Japanese market/With connection wire cable	Only for Japanese market/With connection wire cable

Lamp Specifications

Series		Nexus	Nexus
Model no.		LP-X101	LP-X100
Auto Light		X	X
Type		6V-2.4W	6V-2.4W
Main Lamp		1W Super Bright White LED	1W Super Bright White LED
Sub Lamp		-	-
LED Flashing Function		-	-
Attachment Position		Front fork Light stay	Below Center Basket
Clamp Band Diameter		-	-
Switch	Auto	X	X
	Manual(ON)	X	X
	Manual(OFF)	-	-
Note		Only for Japanese market/With connection wire cable	Only for Japanese market/With connection wire cable

Hub-Dynamo Specifications

Series		Deore XT	Deore XT	Deore XT	Alfine	Alfine
Model No.		DH-T785	DH-T780	DH-T708	DH-S700	DH-S501
Type		Disc-brake	Regular	Disc-brake	Disc-brake	Disc-brake
Center Lock Mount Type		X	-	X	X	X
Voltage (V)		6	6	6	6	6
Output (W)		3	3	3	1.5	3
QR type		X	X	-*	X	X
Nut type		-	-	-	-	-
Over Locknut Dim. (mm)		100	100	100	100	100
Flange Distance (mm)		52.1	60	52.1	54	52.1
Offset (mm)		3.95	0	3.9	3.1	3.8
Hole PCD (mm)		70	70	70	57	70
Axle Length (mm)		108	108	100	108	108
Spoke Size		#14	#14	#14	#14	#14
Spoke Hole	24H	-	-	-	-	-
	28H	-	-	-	-	-
	32H	X	X	X	X	X
	36H	X	X	X	X	X
Wheel Size	26-28inch	X	X	X	-	X
	20-28inch	-	-	-	X	-
	16-28inch	-	-	-	-	-
	20-24inch	-	-	-	-	-
	24-28inch	-	-	-	-	-
	16-20inch	-	-	-	-	-
Compatible wheel size (mm)		646-716	646-716	646-716	492-716	646-716
Roller Brake Modulator Grade	More than 26inch	High	-	-	-	-
		Standard	-	-	-	-
		20-24inch	-	-	-	-
Electric power output connector	J1 TYPE	-	-	-	-	-
	J2 TYPE	-	-	-	-	-
	E2 TYPE	X	X	X	X	X
	For ECOVISION type (2 terminal)	-	-	-	-	-

Hub-Dynamo Specifications

Series		Deore LX	Deore LX	Deore LX	Non-Series	Non-Series
Model No.		DH-T675	DH-T670	DH-T670	DH-1D70	DH-1N70
Type		Disc-brake	Regular	Regular	Disc-brake	Regular
Center Lock Mount Type		X	-	-	X	-
Voltage (V)		6	6	6	6	6
Output (W)		3	3	2.4	1.5	1.5
QR type		X	X	X	X	X
Nut type		-	-	-	-	-
Over Locknut Dim. (mm)		100	100	100	100	100
Flange Distance (mm)		52.1	60	60	54	60
Offset (mm)		4	0	0	3.1	0
Hole PCD (mm)		70	70	70	57	57
Axle Length (mm)		108	108	108	108	108
Spoke Size		#14	#14	#14	#14	#14
Spoke Hole	24H	-	-	-	-	-
	28H	-	-	-	-	-
	32H	X	X	X	X	X
	36H	X	X	X	X	X
Wheel Size	26-28inch	X	X	X	-	-
	20-28inch	-	-	-	X	X
	16-28inch	-	-	-	-	-
	20-24inch	-	-	-	-	-
	24-28inch	-	-	-	-	-
	16-20inch	-	-	-	-	-
Compatible wheel size (mm)		646-716	646-716	646-716	492-716	492-716
Roller Brake Modulator Grade	More than 26inch	High	-	-	-	-
		Standard	-	-	-	-
		20-24inch	-	-	-	-
Electric power output connector	J1 TYPE	-	-	-	-	-
	J2 TYPE	-	-	-	-	-
	E2 TYPE	X	X	X	X	X
	For ECOVISION type (2 terminal)	-	-	-	-	-

Hub-Dynamo Specifications

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.		DH-3D80	DH-3D72	DH-3D35-QR	DH-3D30-QR	DH-3D30-NT
Type		Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Center Lock Mount Type		X	X	X	-	-
Voltage (V)		6	6	6	6	6
Output (W)		3	3	3	3	3
QR type		X	X	X	X	-
Nut type		-	-	-	-	X
Over Locknut Dim. (mm)		100	100	100	100	100
Flange Distance (mm)		52.1	52.1	51	51.0	51.0
Offset (mm)		3.95	3.8	4	4	4
Hole PCD (mm)		70	70	74	74	74
Axle Length (mm)		108	108	108	108	140
Spoke Size		#14	#14	#14	#14	#14
Spoke Hole	24H	-	-	-	-	-
	28H	-	-	-	-	-
	32H	X	X	X	X	-
	36H	X	X	X	X	X
Wheel Size	26-28inch	X	X	X	-	-
	20-28inch	-	-	-	-	-
	16-28inch	-	-	-	X	X
	20-24inch	-	-	-	-	-
	24-28inch	-	-	-	-	-
	16-20inch	-	-	-	-	-
Compatible wheel size (mm)		646-716	646-716	646-716	400-716	400-716
Roller Brake Modulator Grade	More than 26inch	High	-	-	-	-
		Standard	-	-	-	-
		20-24inch	-	-	-	-
Electric power output connector	J1 TYPE	-	-	-	-	-
	J2 TYPE	-	-	-	-	-
	E2 TYPE	X	X	X	X	X
	For ECOVISION type (2 terminal)	-	-	-	-	-

Hub-Dynamo Specifications

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.		DH-2D30-QR	DH-2D30-NT	DH-3N80	DH-2N80E	DH-3N72
Type		Disc-brake	Disc-brake	Regular	Regular	Regular
Center Lock Mount Type		-	-	-	-	-
Voltage (V)		6	6	6	6	6
Output (W)		2.4	2.4	3	2.4	3
QR type		X	-	X	X	X
Nut type		-	X	-	-	-
Over Locknut Dim. (mm)		100	100	100	100	100
Flange Distance (mm)		51.0	51.0	60.0	60.0	60.0
Offset (mm)		4	4	0	0	0
Hole PCD (mm)		74	74	70	70	70
Axle Length (mm)		108	140	108	108	108
Spoke Size		#14	#14	#14	#14	#14
Spoke Hole	24H	-	-	-	-	-
	28H	-	-	-	-	-
	32H	X	-	X	X	X
	36H	X	X	X	X	X
Wheel Size	26-28inch	-	-	X	X	X
	20-28inch	-	-	-	-	-
	16-28inch	X	X	-	-	-
	20-24inch	-	-	-	-	-
	24-28inch	-	-	-	-	-
	16-20inch	-	-	-	-	-
Compatible wheel size (mm)		400-716	400-716	646-716	646-716	646-716
Roller Brake Modulator Grade	More than 26inch	High	-	-	-	-
		Standard	-	-	-	-
		20-24inch	-	-	-	-
Electric power output connector	J1 TYPE	-	-	-	-	-
	J2 TYPE	-	-	-	-	-
	E2 TYPE	X	X	X	X	X
	For ECOVISION type (2 terminal)	-	-	-	-	-

Hub-Dynamo Specifications

Series		Non-Series	Deore LX	Deore LX	Non-Series	Non-Series
Model No.		DH-2N72	DH-T660-3N	DH-T660-2N	DH-3N20 (NT)	DH-3N20-A3
Type		Regular	Regular	Regular	Regular	Regular
Center Lock Mount Type		-	-	-	-	-
Voltage (V)		6	6	6	6	6
Output (W)		2.4	3	2.4	3	3
QR type		X	X	X	-	-
Nut type		-	-	-	X	X
Over Locknut Dim. (mm)		100	100	100	100	100
Flange Distance (mm)		60.0	60.0	60.0	60.0	60.0
Offset (mm)		0	0	0	1	0
Hole PCD (mm)		70	70	70	74	74
Axle Length (mm)		108	108	108	140	140
Spoke Size		#14	#14	#14	#14	#14
Spoke Hole	24H	-	-	-	-	-
	28H	-	-	-	X	-
	32H	X	X	X	X	-
	36H	X	X	X	X	X
Wheel Size	26-28inch	X	X	X	-	X
	20-28inch	-	-	-	-	-
	16-28inch	-	-	-	X	-
	20-24inch	-	-	-	-	-
	24-28inch	-	-	-	-	-
	16-20inch	-	-	-	-	-
Compatible wheel size (mm)		646-716	646-716	646-716	400-716	646-716
Roller Brake Modulator Grade	More than 26inch	High	-	-	-	-
		Standard	-	-	-	-
		20-24inch	-	-	-	-
Electric power output connector	J1 TYPE	-	-	-	-	-
	J2 TYPE	-	-	-	-	-
	E2 TYPE	X	X	X	X	-
	For ECOVISION type (2 terminal)	-	-	-	-	X

Hub-Dynamo Specifications

Series		Non-Series	CAPREO	CAPREO	Non-Series	Non-Series
Model No.		DH-2N35-NT	DH-F703	DH-F702	DH-F703-S	DH-F702-S
Type		Regular	Regular	Regular	Regular	Regular
Center Lock Mount Type		-	-	-	-	-
Voltage (V)		6	6	6	6	6
Output (W)		2.4	3	2.4	3	2.4
QR type		-	X	X	X	X
Nut type		X	-	-	-	-
Over Locknut Dim. (mm)		100	74	74/100	74	74
Flange Distance (mm)		60.0	44.6	44.6	44.6	44.6
Offset (mm)		1	0	0	0	0
Hole PCD (mm)		74	74	74	74	74
Axle Length (mm)		140	82	82	82	82
Spoke Size		#14	#14	#14	#14	#14
Spoke Hole	24H	-	X	X	X	X
	28H	-	-	-	-	-
	32H	-	-	-	-	-
	36H	X	-	-	-	-
Wheel Size	26-28inch	-	-	-	-	-
	20-28inch	-	-	-	-	-
	16-28inch	X	-	-	-	-
	20-24inch	-	-	-	-	-
	24-28inch	-	-	-	-	-
	16-20inch	-	X	X	X	X
Compatible wheel size (mm)		400-716	400-536	400-536	400-536	400-536
Roller Brake Modulator Grade	More than 26inch	High	-	-	-	-
		Standard	-	-	-	-
		20-24inch	-	-	-	-
Electric power output connector	J1 TYPE	-	-	-	-	-
	J2 TYPE	-	-	-	-	-
	E2 TYPE	X	X	X	X	X
	For ECOVISION type (2 terminal)	-	-	-	-	-

Hub-Dynamo Specifications

Series		Non-Series	Non-Series	Non-Series	NEXUS	NEXUS
Model No.		DH-3R35(QR)	DH-3R35(NT)	DH-2R35-E	DH-2N30-J	DH-2N30-JC
Type		Hub Roller Brake	Hub Roller Brake	Hub Roller Brake	Regular	Regular
Center Lock Mount Type		-	-	-	-	-
Voltage (V)		6	6	6	6	6
Output (W)		3	3	2.4	2.4	2.4
QR type		X	-	-	-	-
Nut type		-	X	X	X	X
Over Locknut Dim. (mm)		100	100	100	93	93
Flange Distance (mm)		58.1	58.1	58.1	60.0	60.0
Offset (mm)		4.7	4.7	4.7	0	0
Hole PCD (mm)		74	74	74	74	74
Axle Length (mm)		108	140	140	150	150
Spoke Size		#14	#14	#14	#14	#14
Spoke Hole	24H	-	-	-	-	-
	28H	-	-	-	-	X
	32H	-	-	X	-	-
	36H	X	X	X	X	-
Wheel Size	26-28inch	X	X	X	-	-
	20-28inch	-	-	-	-	-
	16-28inch	-	-	-	-	-
	20-24inch	-	-	-	-	X
	24-28inch	-	-	-	X	-
	16-20inch	-	-	-	-	-
Compatible wheel size (mm)		646-716	646-716	646-716	24"-28"	20"-24"
Roller Brake Modulator Grade	More than 26inch	High	X	X	X	-
		Standard	X	X	X	-
		20-24inch	-	-	-	-
Electric power output connector	J1 TYPE	-	-	-	-	-
	J2 TYPE	-	-	-	X	X
	E2 TYPE	X	X	X	-	-
	For ECOVISION type (2 terminal)	-	-	-	-	-

Hub-Dynamo Specifications

Series		Non-Series	Non-Series	NEXUS	NEXUS	
Model No.		DH-2N30-JW	DH-2N30-JWC	DH-2R30-J	DH-2R30-JC	
Type		Regular	Regular	Hub Roller Brake	Hub Roller Brake	
Center Lock Mount Type		-	-	-	-	
Voltage (V)		6	6	6	6	
Output (W)		2.4	2.4	2.4	2.4	
QR type		-	-	-	-	
Nut type		X	X	X	X	
Over Locknut Dim. (mm)		100	100	100	100	
Flange Distance (mm)		60.0	60.0	58.1	58.1	
Offset (mm)		2.7	2.7	4.8	4.8	
Hole PCD (mm)		74	74	74	74	
Axle Length (mm)		140	140	155	155	
Spoke Size		#14	#14	#14	#14	
Spoke Hole	24H	-	-	-	-	
	28H	-	-	-	-	
	32H	-	-	-	-	
	36H	X	X	X	X	
Wheel Size	26-28inch	-	-	-	-	
	20-28inch	-	-	-	-	
	16-28inch	-	-	-	-	
	20-24inch	-	X	-	X	
	24-28inch	X	-	X	-	
	16-20inch	-	-	-	-	
	Compatible wheel size (mm)	24"-28"	20"-24"	26"-28"	20"-24"	
Roller Brake Modulator Grade	More than 26inch	High	-	-	-	
		Standard	-	-	X	X
		20-24inch	-	-	-	-
Electric power output connector	J1 TYPE	-	-	-	-	
	J2 TYPE	X	X	X	X	
	E2 TYPE	-	-	-	-	
	For ECOVISION type (2 terminal)	-	-	-	-	

Capreo Specifications

RD

Series	Capreo	Capreo
Model No.	RD-F800	RD-F800
Pulley Cage	SS	GS
Speeds	9	9
Total Capacity	17T	17T
Max. Rear Sprocket	26T	26T
Min. Rear Sprocket	9T	9T

SL

Series	Capreo
Model No.	SL-F800
Lever type	Rapidfire Plus
Rear speeds	9
SL cable adjust	X
Optical gear display	Above handlebar
SL outer casing	SP41 sealed
SL Compatible RD Type	All 9-speed RD

CS

Series		Capreo
Model No.		CS-HG70-S
Type		HG Cassette Sprocket
Combination	Speed	9
	9	26
	8	23
	7	20
	6	17
	5	15
	4	13
	3	11
	2	10
	1	9
Group		bc
Chain		Super Narrow HG for 9-speed
Note		Only for FH-F700

BL

Series	Capreo
Model No.	BL-F800
Brake Type	V-brake
Lever Size (Finger)	2
Reach Adjust	X
Cable Adjust	X

Capreo Specifications

FH

Series		Capreo
Model No.		FH-F700
Compatible CS type		Only CS-HG70-S
Compatible Wheel Size		Only 16-20inch
Spoke Holes	24H	X
	32H	X
	36H	X
	PCD (mm)	45
Freehub Body	Speeds	9
	9T Compatible	X
O.L.D. (mm)	135	X
Flange Distance (mm)		60.3
Dish (mm)		8.3
Axle	QR Skewer Length (mm)	168
	Length (mm)	146 (M10)

HB

Series		Capreo
Model No.		HB-F700
Spoke Holes	24H	X
	32H	X
	36H	X
	PCD (mm)	38
O.L.D. (mm)		100
Flange Distance (mm)		71.6
Axle	QR	X
	QR Skewer Length (mm)	133
	Axle Length (mm)	108 (M9)
	Material	Steel
	Nut	-
	Axle Length (mm)	-
Radial Lacing		X

BR

Series		Capreo
Model No.		BR-F800
Brake type		V-BRAKE
Power Modulator		X (Option)
Brake shoe type	Standard	R55C for F700/F800
	Option	-
Arch Size (mm)		107
Fixing Bolt Length (mm)		16/25
Lead Pipe Angle		45/90/135
Cartridge Shoe Holder		X

FC

Series		Capreo
Model No.		FC-F800
Rear Speeds		9
Chainring Combination		45T
PCD (mm)		130
Crank Arm Length (mm)		170
Chain		Super narrow HG for 9-speed
Bottom Bracket		BB-UN26
Axle Length	Chain Line 46	MM110
	Chain Line 48.5	LL113
	Chain Line 50	YL117
	Chain Line 52.5+t	117.5

Alfine Specifications

SG

Series		Alfine	Alfine
Model No.		SG-S700	SG-S501
Speeds		11	8
Brake		BR-S700	BR-S700
		Center Lock Type	Center Lock Type
Over Locknut Dim. / OLD (mm)		135	135
Axle Length (mm)		187	187
Gear Ratio	Total	409%	307%
	1	0.527	0.527
	2	0.681	0.644
	3	0.770	0.748
	4	0.878	0.851
	5	0.995	1
	6	1.134	1.223
	7	1.292	1.419
	8	1.462	1.615
	9	1.667	-
	10	1.888	-
	11	2.153	-
Spoke Hole		36/32H	36/32H
Spoke Size		#13 / #14	#13 / #14
Flange Distance (mm)		57.3	57.3
Spoke Hole PCD (mm)		92.6	92.6
Flange Diameter (mm)		104.3	104.3
Flange Width (mm)		3.2	3.2
Sprocket Teeth	CT-S500 use	18T,20T(CS-S500)	18T,20T(CS-S500)
	Inward Assembling	20,21,22,23T	18,19,20,21,22,23T
	Outward Assembling	18,20,21,22,23T	16,18,19,20,21,22,23T
Sprocket Thickness (mm)		2 (CS-S500)	2 (CS-S500)
		2.3 (SM-GEAR)	2.3 (SM-GEAR)
Chain Size		Super Narrow HG for 9-speed (for CS-S500 use)	Super Narrow HG for 9-speed (for CS-S500 use)
		HG (for SM-GEAR use)	HG (for SM-GEAR use)
Recommended Chain		CN-HG53 / CN-HG50	CN-HG53 / CN-HG50
Chain Line (mm)		41.8	41.8
Dishing Distance (mm)		3.15	3.15
Shifting Lever		SL-S700	SL-S500(ST,SL,SB-8S20)
Cassette Joint		CJ-S700	CJ-8S20/CJ-8S40
Weight		1665g	1680g

Alfine Specifications

SL

Series	Alfine	Alfine
Model No.	SL-S700	SL-S503
Lever type	Rapidfire Plus	Rapidfire plus
Multi Release	X	-
Instant Release	X	-
2-Way Release	X	X
SL cable adjust	X	X
Optical gear display	Above handlebar	Above handlebar
SL Outer Casing	SP41 sealed	SP41 sealed
SL Compatible SG Type	SG-S700	SG-S501,INTER-8

CT

Series	Alfine	Alfine
Model No.	CT-S500	CT-S510
Compatible CS	CS-S500	CS-S500 / SM-GEAR
Max Front Difference	16T	-
Max.Rear Sprocket	20T(CS-S500)	23T(SM-GEAR)
Min.Rear Sprocket	18T(CS-S500)	16T(SM-GEAR)
Dropout	Vertical drop end type	Vertical drop end type
Structure	Double pulley	Single pulley

CS

Series	Alfine
Model No.	CS-S500
Chain drop protection	X
Gear Teeth	18T,20T
Chain	Super Narrow HG for 9s

Alfine Specifications

FC

Series	Alfine		Alfine	
Model No.	FC-S500		FC-S400	
Chain Ring Teeth	45T/39T		45T/39T	
Chain guard Type	Double	Single	Double	Single
Chain line (mm)	49.2	42.7	49.2	42.7
Chain Type	Super Narrow HG for 9-speed (for CS-S500 use)		Super Narrow HG for 9-speed (for CS-S500 use)	
	HG (for SM-GEAR use)		HG (for SM-GEAR use)	
Crank Length (mm)	170		170	
BB axle length (mm)	-		126	118
Bottom Bracket	Included SM-FC4500		BB-ES25	

BR

Series	Alfine	
Model No.	BR-S700	
Recommended Brake Lever	BL-S700	
Recommended Brake Rotor	SM-RT81	
Mount Type	International standard Post-type	
PAD	Standard	G01A Resin
	Option	F01A Resin
Hose	SM-BH90-SB	

BL

Series	Alfine
Model No.	BL-S700
Brake Type	Hydraulic Disc-brake
Recommended Brake Caliper	BR-S700
Finger	3 finger
Brake Hose	SM-BH90-SB

Nexus Specifications

SG

Series		Nexus				
Function Name		Inter-8				
Model No.		SG-8R31	SG-8R36	SG-8R31-VS	SG-8R36-VS	SG-8C31
Driving Efficiency		Standard	HIGH	Standard	HIGH	Standard
Brake		Inter-M BR-IM45/55/80/81-R		V-Brake		Coaster
Over Locknut Dim. /OLD (mm)		132			132.3	
Axle Length (mm)		184			184	
Gear Ratio	Total	307%			307%	
	1	0.527			0.527	
	2	0.644			0.644	
	3	0.748			0.748	
	4	0.851			0.851	
	5	1			1	
	6	1.223			1.223	
	7	1.419			1.419	
8		1.615			1.615	
Spoke Hole		36/32H	36/32H	36/32/28H	36/28H	36/32H
Spoke Size		#13 / #14			#13 / #14	
Flange Distance (mm)		58.3			58.3	
Spoke Hole PCD (mm)		92.6			92.6	
Flange Diameter (mm)		105.2			105.2	
Flange Width (mm)		3.2			3.2	
Sprocket Teeth		16T,18T,19T,20T,21T,22T,23T			16T,18T,19T,20T,21T,22T,23T	
Sprocket Thickness (mm)		2.3			2.3	
Chain Size		1/2"x1/8" or 1/2"x3/32" *			1/2"x1/8" or 1/2"x3/32" *	
SHIMANO Recommended Chain		CN-NX10 (1/2"x1/8")			CN-NX10 (1/2"x1/8")	
Chain Line (mm)		42.7/47.7 (16-23T)			42.85/47.85 (16-23T)	
Dishing Distance (mm)		2.7			2.55	
Shifting Lever/Al		SB-8S20/ST-8S20/SL-8S30 (SL-S503)			SB-8S20/ST-8S20/SL-8S30 (SL-S503)	
Cassette Joint / Motor Unit		CJ-8S20/CJ-8S40			CJ-8S20/CJ-8S40	
Weight		1750g	1630g	1775g	1655g	2040g
Note		* CN spec: 1/2"x3/32" is not available from SHIMANO. In case of tensioner use, we recommend 1/2"x3/32" to prevent noise problem				

Nexus Specifications

SG

Series		Nexus			Nexus			
Function Name		Inter-7			Inter-5			
Model No.		SG-7R50		SG-7C30	SG-5R35	SG-5R35-VS	SG-5R30	SG-5R30-VS
Driving Efficiency		Standard			Standard			
Brake		Inter-M BR-IM45/55/80/81-R		Coaster	Inter-M	V-BRAKE	Inter-M	V-BRAKE
Over Locknut Dim. /OLD (mm)		130	130	127	132			
Axle Length (mm)		182	201	175.5	184		210	
Gear Ratio	Total	244%			206%			
	1	0.632			0.750			
	2	0.741			1.001			
	3	0.843			1.159			
	4	0.989			1.335			
	5	1.145			1.545			
	6	1.335						
	7	1.545						
	8							
Spoke Hole		36/32H		36/32H	36/32H		36/32H	
Spoke Size		#13 / #14			#13 / #14		#13 / #14	
Flange Distance (mm)		54.6		56.2	54.6		54.6	
Spoke Hole PCD (mm)		87		83.5	76		76	
Flange Diameter (mm)		99.6		92.5	88.6		86	
Flange Width (mm)		3.2		2.7	3.6 / 3.4 (Left / Right)		2.5 / 2.3 (Left / Right)	
Sprocket Teeth		16T,18T,19T,20T,21T,22T,23T			16T,18T,19T,20T,21T,22T,23T		16T,18T,19T,20T,21T,22T,23T	
Sprocket Thickness (mm)		2.3			2.3		2.3	
Chain Size		1/2"x1/8" or 1/2"x3/32" *			1/2"x1/8" or 1/2"x3/32" *		1/2"x1/8" or 1/2"x3/32" *	
SHIMANO Recommended Chain		CN-NX10 (1/2"x1/8")			CN-NX10(1/2"x1/8")		CN-NX10(1/2"x1/8")	
Chain Line (mm)		45.3 (16T) 40.3 / 45.3 (18-23T)		46.5 (16T) 41.5 / 46.5 (18-23T)	41.8 / 46.8		41.8 / 46.8	
Dishing Distance (mm)		3.85		4.6	0.3		0.3	
Shifting Lever/Al		SB-7S45,SL-7S20,SL-7S30			SL-5S50, SL-5S30		SL-5S50, SL-5S30	
Cassette Joint / Motor Unit		CJ-NX10/CJ-NX40			CJ-8S20/CJ-8S40		CJ-8S20/CJ-8S40	
Weight		1465g		1860g	1230g	1255g	1305g	1330g
Note		* CN spec: 1/2"x3/32" is not available from SHIMANO. In case of tensioner use, we recommend 1/2"x3/32" to prevent noise problem						

Nexus Specifications

SG

Series		Nexus									
Function Name		Inter-3									
Model No.		SG-3R40		SG-3R75		SG-3C41					
Driving Efficiency		Standard		HIGH		Standard					
Brake		Inter-M BR-IM45-R/ BR-IM31-R		Inter-M		Coaster					
Over Locknut Dim. /OLD (mm)		120.4/120.4		126.8		120/120		127.4			
Axle Length (mm)		170.3/189.4		176.8		174/193/198		168/178		175	
Gear Ratio	Total	186%		158%		186%					
	1	0.733		0.632		0.733					
	2	1.000		0.741		1.000					
	3	1.360		1.0		1.360					
	4										
	5										
	6										
	7										
	8										
Spoke Hole		36/32/28H		36H		36/28H					
Spoke Size		#13 / #14		#13 / #14		#13 / #14					
Flange Distance (mm)		53		53		51.1		57.5		57.5	
Spoke Hole PCD (mm)		74		74		83.5		59		59	
Flange Diameter (mm)		84		84		92.5		67.5		67.5	
Flange Width (mm)		2.3		2.3		2.7/2.3(Left/Right)		2.3			
Sprocket Teeth		15T, 16T, 18T, 19T, 20T, 21T, 22T, 23T		16T,18T,19T,20T,21T,22T,23T		15T, 16T, 18T, 19T, 20T, 21T, 22T, 23T					
Sprocket Thickness (mm)		2.3		2.3		2.3					
Chain Size		1/2"x1/8" or 1/2"x3/32"		1/2"x1/8" or 1/2"x3/32"		1/2"x1/8" or 1/2"x3/32"					
SHIMANO Recommended Chain		CN-NX10(1/2"x1/8")		CN-NX10(1/2"x1/8")		CN-NX10(1/2"x1/8")					
Chain Line (mm)		42.2 (15T) -/44.7 (16T) 39.7/44.7 (18-23T)		40.5 (15T) -/43 (16T) 38/43 (18-23T)		-/43.9		43.7 (15T) -/46.2 (16T) 41.2/46.2 (18-23T)		42.2 (15T) -/44.7 (16T) 39.7/44.7 (18-23T)	
Dishing Distance (mm)		0.8		2.5		3.6		1.2		2.7	
Shifting Lever/Al		SL-3S35E, SL-3S41E, SL-3S42E		SL-3S41E(for SG-3R75)		SL-3S35E, SL-3S41E, SL-3S42E					
Cassette Joint / Motor Unit		BELL CRANK 6		CJ-NX40(for SG-3R75)		BELL CRANK 6					
Weight		885g		1315g		1120g					
Note											

Nexus Specifications

SG

Series	Nexus	
Function Name	Inter-3	
Model No.	SG-3D55	
Driving Efficiency	Standard	
Brake	Disc Brake	
Over Locknut Dim. /OLD (mm)	135	
Axle Length (mm)	192.6	
Gear Ratio	Total	186%
	1	0.733
	2	1.000
	3	1.360
	4	
	5	
	6	-
	7	
8		
Spoke Hole	36/32H	
Spoke Size	#13 / #14	
Flange Distance (mm)	53.5	
Spoke Hole PCD (mm)	65	
Flange Diameter (mm)	77.6	
Flange Width (mm)	3.2	
Sprocket Teeth	*	
Sprocket Thickness (mm)	2.0 (for CS-S500) /2.3 (for SMGEAR)	
Chain Size	1/2"x1/8" or 1/2"x3/32" /HG	
SHIMANO Recommended Chain	CN-NX10(1/2"x1/8") / CN-HG50	
Chain Line (mm)	44.5 (15T)	
	42/47** (16T)	
	42 (18-23T)	
	42 (CS-S500)	
Dishing Distance (mm)	1.67	
Shifting Lever/Al	SL-3S35E,SL-3S41E,SL-3S42E	
Cassette Joint / Motor Unit	BELL CRANK 6	
Weight	945g	
Note	*15T, 16T, 18T, 19T, 20T, 21T, 22T, 23T (SMGEAR for w/o tensioner use)/ 18T, 20T (CS-S500) for tensioner use **16T-23T Chain Line(mm) : 42/47	

Nexus Specifications

SB / SL / ST / SM

Series	Nexus	Nexus	Nexus	Nexus	Nexus	Nexus	Nexus
Function Name	Inter-S	Inter-S	Inter-S	Inter-S	Inter-S	Inter-S	Inter-S
Model No.	SL-8S30	SL-8S30-A	SB-8S20	ST-8S20	SL-7S50	SL-7S30	SL-7S20
Speeds	8	8	8	8	7	7	7
Shifter Type	Revo	Revo	Revo	Tap fire	Rapidfire Plus	Revo	Revo
Brake Lever Integrated	-	-	X	X	-	-	-
Brake Lever Size	-	-	4 Finger	3 Finger	-	-	-
Left Hand Brake Lever	-	-	BL-IM60	BL-IM65	-	-	-
Clamping Diameter (mm)	22.2	22.2	22.2	22.2	22.2	22.2	22.2

Nexus Specifications

SB / SL / ST / SM

Series	Nexus	Nexus	Nexus	Nexus	Nexus	Nexus	Nexus
Function Name	Inter-S	Inter-S	Inter-S	Inter-S	Inter-S	Inter-S	Inter-S
Model No.	SB-7S45	SL-5S50	SL-5S30	SL-3S42E	SL-3S41E	SL-3S35E	SL-3S58 J
Speeds	7	5	5	3	3	3	3
Shifter Type	Revo	Rapidfire Plus	Revo	Revo	Revo	Revo	Revo
Brake Lever Integrated	X	-	-	-	-	-	-
Brake Lever Size	3 Finger	-	-	-	-	-	-
Left Hand Brake Lever	BL-IM45	-	-	-	-	-	-
Clamping Diameter (mm)	22.2	22.2	22.2	22.2	22.2	22.2	22.2

Nexus Specifications

SB / SL / ST / SM

Series	Nexus	Nexus	Nexus	Nexus	Nexus	Nexus
Function Name	Inter-S	Inter-S	Inter-S	Inter-S	Inter-S	Inter-S
Model No.	SL-3S42 J	SL-3S43 J	SL-3S44J	SL-3S90	SL-3S91J	SL-3S92J
Speeds	3	3	3	3	3	3
Shifter Type	Revo	Revo	Revo	Piano-touch	Piano-touch	Piano-touch
Brake Lever Integrated	-	-	-	-	-	-
Brake Lever Size	-	-	-	-	-	-
Left Hand Brake Lever	-	-	-	-	-	-
Clamping Diameter (mm)	22.2	22.2	22.2	22.2	22.2	22.2

Nexus Specifications

FC

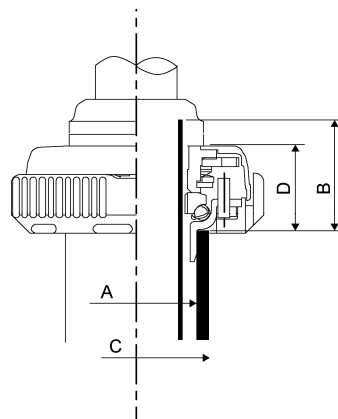
Series		Nexus	
Model No.		FC-NX75	
Chain Ring Teeth		33T	38T
Chain Line (mm)		44±1+ t	
Chain Type		1/2"X3/8" or 1/2"X3/32"	
Crank Length (mm)		170	
BB	With Chaincase Stay	BB-UN26-K YL117	
	Without Chaincase Stay		
Cover Ring Diameter (mm)		95.5	
Note		t : chain case thickness * Both of spec with bolt and spec w/o bolt are available.	

SB/SL/ST/SM

Series	Nexus	Nexus
Function Name	Inter-S	Inter-S
Model No.	SL-3S42 J	SL-3S43 J
Speeds	3	3
Shifter Type	Revo	Revo
Brake Lever Integrated	-	-
Brake Lever Size	-	-
Left Hand Brake Lever	-	-
Clamping Diameter (mm)	22.2	22.2

HP

Series	Nexus
Model No.	HP-NX10
A (mm)	30.0 (ø29.85) or 30.2 (ø30.01)
B (mm)	30.5 - 31.5
Front Fork Stem Thread Size	BC 1" X 24 T.P.1
C (mm)	Max. ø38
D (mm)	21.7



CN

Series	Nexus
Model No.	CN-NX10
Size	1/2x1/8"

Electronic Wire Cable Specifications (Nexus)

Series		Non-Series			Non-Series	
Model No.		EW-NX60 (Long)			EW-NX60 (Short)	
Number of Branch		3	3	4	-	-
Color		Silver	Black	Black	Black	Black
Length (mm)	Cord to SL	50	50	50	-	-
	Cord to SM	50	50	50	-	-
	Distributor B *	46	46	-	-	-
	Distributor C **	-	-	46	-	-
	Cord between Distributor B/C and A	315	315	315	-	-
	Distributor A ***	46	46	46	-	-
	Cord to Front LP	180	180	180	-	-
	Cord to Rear LP	-	-	150	815	885
	Cord to Dynamo	545	545	545	-	-
Main cord		(315)	(315)	(315)	-	-
For		DH-LP-SL-SM	DH-LP-SL-SM	DH-LP-SL-SM	EW(NX60 Long)-LP(Rear)	EW(NX60 Long)-LP(Rear)
Note		Distributor A*** : Branch from DH to LP / main cord Distributor B** : Branch from main cord to SL / SM Distributor C* : Branch from main cord to SL / SM / LP (Rear)				

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